

# Guide to Investing in Energy Projects in Peru

2021/2022



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This edition of the Energy Guide has as its main objective to be a tool in the process of evaluation the energy landscape in Peru to ensure that foreign investors have the most recent and accurate information to start and develop their operations in the country on a long-term basis.

This guide includes various aspects usually taken into considerations by investors from around the world before making critical decisions on the development of new operations. In this sense, we provide information on Peru's economic, legal, tax, labor and financial issues applicable to the energy sector, as well as other that can be used for developing activities and making business decisions.

The increasing demand of energy in Peru during the last twenty years due to the developing of mining and industrial projects, and the growth of its main cities, has served to better position the oil & gas and electricity activities. However, this scenario is going to evolve as the economy grows and new sources of energy are considered.

The 2014-2025 National Energy Plan highlighted the need to diversify the sources of energy production due to trends of investment in clean energy in the global market.

We firmly believe that Peru offers great opportunities for favorable investment, as well as an ideal business climate for investment. Peru's economy is showing indicators of evident recovery in a number of sectors as a result of the accurate measures being executed within a challenging and constantly changing environment.

At EY we reaffirm our commitment to the development of Peru, as well as to the building of a better world for business. We invite you to read this Guide in the hope that it will be of use to discover new initiatives, and we are at your disposal for any assistance you may require.

“

**Building a Better  
Working World starts by  
making good decisions.  
To accomplish it, having  
the right information at  
the right time is crucial**

# WORDS FROM THE MINISTER OF FOREIGN AFFAIRS



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The Ministry of Foreign Affairs is focused on helping to mitigate the impacts of the COVID-19 pandemic and reactivating the Peruvian economy, in close coordination with the public and private institutions responsible for these objectives. One of the most important tasks is to foster dialogue with a range of international actors in order to promote a coordinated, cooperative and timely comprehensive response to the challenges posed by the complex scenario we currently face. The Ministry is also working hard to raise awareness in international markets of the Peruvian economy's positive outlook in the short and medium term, with the goal of bolstering the country's image, strengthening our economic insertion, and attracting foreign investment, all of which are important aspects in achieving sustainable development.

Through its network of diplomatic missions abroad, the Ministry of Foreign Affairs is engaged in a range of activities to promote investment in Peru, foster international trade,

and publicize our export products. To attract investment flows, the Ministry works to promote the country's portfolio of prioritized national projects in the health, water and sanitation, education, transportation, and energy sectors. The energy sector is of particular importance, given that the wellbeing and progress of Peruvian society, as well as the competitiveness of national business activity, largely depend on a reliable, efficient, and affordable energy supply.

Peru has the solid foundations necessary to consolidate a modern and sustainable energy industry. Of particular importance is the potential offered to the energy sector by the country's geology, as well as the discovery of oil and gas deposits in Peruvian territory, especially the Camisea natural gas reserves. Peru has also experienced legal stability and continuous economic growth for the past two decades. All of these factors have helped make the Peruvian energy sector an attractive destination for foreign capital, as reflected in increased investment in recent years.

The public policies implemented by the Peruvian government since the turn of the century have fostered the efficient and responsible management of the energy sector, guaranteeing electricity for more Peruvians and reducing dependence on hydrocarbon imports. In fact, the country is now an exporter of liquefied natural gas.

However, there are still challenges to be tackled in relation to the COVID-19 pandemic. One of these is the need to increase the national energy supply and diversify the energy matrix, as well as increasing investor confidence in the potential of the country's energy resources.

With that in mind, the Ministry of Foreign Affairs is engaged in a range of activities, in partnership with strategic actors, to promote and disseminate investment opportunities throughout the country. To this end, special relationships have been forged with institutions such as the Ministry of Energy and Mines (MINEM), the Private Investment Promotion Agency (ProInversión), and PERUPETRO, as well as key partners from the private sector, such as the prestigious consulting firm EY Peru, through which major investment promotion projects have been undertaken.

The 2021-2022 Guide to Investing in Energy Projects in Peru, prepared as part of this partnership with EY Peru, is a perfect example of successful public-private collaboration in the furtherance of national interests. With this document, foreign investors now have access, through our diplomatic and consular

missions abroad, to detailed information on the applicable legal and regulatory framework, the facilities and forms of investing capital in Peru, and the outstanding growth achieved by the sector, among other aspects of interest to the international business class. I invite you to read this Guide thoroughly to learn more about the significant opportunities offered by the Peruvian energy industry, and to contact our embassies, located on every continent, that would be delighted to provide you with continued guidance and further information.



# WORDS FROM THE DIRECTOR GENERAL OF ECONOMIC PROMOTION



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The year 2021 will be one of great challenges for our country. In the midst of a difficult international scenario, the Ministry of Foreign Affairs is committed to helping Peru's recovery and competitiveness, driven by the country's recognized macroeconomic soundness and the encouraging national and international growth projections for the Peruvian economy, which stand at about 10% for this year.

The Ministry of Foreign Affairs, in coordination with the relevant public and private institutions, is seeking to attract foreign capital to the Peruvian market to help close our country's infrastructure gaps. Additionally, thanks to our extensive network of diplomatic missions abroad, Peru has maintained its image as an important destination for investments through an activate promotional campaign that includes

informational fairs, roadshows, and virtual forums to share success stories from a range of sectors and the profitability of the projects our country has to offer. The Ministry also has decentralized offices in different regions of Peru, which act as important agents in the identification and promotion of investment opportunities in regional projects.

As we unveil this new Guide, I would like to highlight the Ministry's work abroad in promoting the opportunities offered by the Peruvian energy sector. This sector is one of the country's most important, and plays a major role in driving our economy. The Covid-19 pandemic has served to highlight the existing need to increase Peru's energy supply and diversify it by using renewable sources.

Some of the most notable energy projects in ProInversión 2021 portfolio include the mass use of natural gas in seven regions of Peru; the extension of transmission lines; and substations that will help supply electricity to more Peruvian families. Tenders for six PeruPetro oil blocks located in northeastern Peru are also being promoted abroad.

The work done by the Ministry of Foreign Affairs also consists of guiding foreign investors who are looking to doing business in Peru through private initiatives. In 2020 and 2021, businesspeople from Asia, the Americas, and Europe were given legal, tax, and labor information, as well as tips on the opportunities offered by Peru, in coordination with the relevant public institutions and the key support of the private sector, through strategic partnerships such as the one we have recently expanded and renewed with EY Peru.

The Ministry of Foreign Affairs, acting through the Executive Office for Economic Promotion, will continue to perform its work effectively, in coordination with the public and private institutions of the energy sector, aimed at attracting investment and aiding in national development. This "Guide to Investing in Energy Projects in Peru 2021-2022" will help readers learn of the opportunities offered by our country, and help businesspeople seeking

to begin doing business in the country. Our foreign missions will also use this important work tool in their efforts to promote investment, sharing it with local authorities and executives wherever they may be located.

We would like to once again offer our thanks to EY Peru for their reinvigorated and resolute collaboration.





# WORDS FROM THE MINISTRY OF ENERGY AND MINES



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The Ministry of Energy and Mines (MINEM) is working to promote intensive, efficient, responsible, and sustainable use of hydrocarbons locally produced; to ensure energy security; to standardized safety and quality conditions; and to promote universal access to energy supply, which will contribute to the development of communities and the improvement in the quality of life of Peruvian families. Additionally, as a promoter entity, the MINEM seeks to ensure the development of responsible, transparent and environmentally friendly investments in the Hydrocarbon sector. Likewise, takes on the Concession Grantor role for related activities as well as participates in the formulation of the Energy Plan.

In that context, the National Energy Plan for 2014-2025 aims at satisfying the national energy demand through a reliable, regular, continuous and efficient energy system, highlighting one of the guidelines: to achieve total coverage of hydrocarbons' demand.

With the creation of the Vice-Ministry of Hydrocarbons in 2017, the government has dedicated all the efforts to address the major

concerns of the sector by implementing different policies that benefit the Peruvian population. In this task, the Directorate General of Hydrocarbons of Peru (DGH) plays a key role by promoting important projects and proposing the necessary legislation to achieve this objective.

The year 2020 has been a difficult one, the coronavirus pandemic has affected economic sectors in several ways. Losses throughout the entire hydrocarbon value chain have been enormous. Despite this situation, hydrocarbons are still playing an important part in the national economy, so at the end of August 2020, the sector generated USD296 million income for the Government, from which USD281 million was related to license contracts and USD15 million to service contracts. That figure was 46.4% lower than that registered for August 2019, due to the fall in international prices and the lower demand as a result of the pandemic. Besides, with regards to "canon" and "sobrecanon", until August 2020, it has been transferred S/660 million to Ucayali, Piura, Huánuco, Tumbes, Loreto and Cusco regions, about 40% lower than the figure to August 2019.

In order to mitigate the effects of the pandemic, the action of the Ministry has been crucial. On this basis, the MINEM has been working on a wide portfolio of projects and legislative proposals, which aims at boosting economic growth, creating new jobs and building more resilient and cleaner energy systems that contribute to the economic recovery of the country. In that sense, the DGH is focusing on promoting

relevant projects for the sector such as the “Integrated Gas Transportation System - South of Peru (SITGAS)”, which aims at transporting natural gas to the southern regions of Peru and strengthening energy security in the country; the “Modernization of North Peruvian Pipeline”; “Modernization of Talara Refinery (PMRT)”; and the “Massification of Natural Gas - Distribution through Pipelines in the Apurímac, Ayacucho, Huancavelica, Junín, Cusco, Puno and Ucayali Regions Project (Seven Regions Project)”, project prioritized by the National Infrastructure Plan for Competitiveness<sup>1</sup> (PNIC).

SITGAS estimated investment amounts to USD4.5 billion and will benefit 900,000 families of southern regions such as Cusco, Apurímac, Puno, Arequipa, Moquegua and Tacna. This project seeks to supply natural gas, originating in Camisea, to the population located in southern regions of Peru as well as the power plants located in the South Energy Node (Mollendo and Ilo), and reinforce the continuity and security of current natural gas supply, allowing to enhance Peru's energy security.

Regarding the PMRT, with an investment of more than USD5.0 billion, the project is estimated to be completed in 2021 and will allow the production of cleaner fuels according to Euro VI standards contributing with less air pollution and damage to human health. This project's target is to increase refining capacity from 65 to 95 KBPD of crude oil, to optimize conversion processes and to construct new units to refine light and heavy crude oil, with the goal of producing cleaner fuels (Gasolines and Diesel with a maximum Sulphur content of 50 ppm on a first stage, and 10 ppm on a second phase).

It is important to mention that due to the pandemic, the project's main activities were interrupted for about three months. However, in October 2020, the physical progress of PMRT was 91.31% with a total investment of USD5.3 billion (including interests).

In addition, the Ministry is also focused on continuing the implementation of the massification of natural gas policy; thus, it is been working on the modification of several legislations in order to get the maximum benefit for Peruvian people.

At the moment, there are already six (06) concessions for the distribution of natural gas, benefiting to approximately 1.2 million families in Lima y Callao, Ica, Arequipa, Moquegua, Tacna, Lambayeque, Cajamarca, La Libertad and Ancash Regions; and from 2019, with the subscription of the contracts, Tumbes and Piura are closed to enjoy the benefits of natural gas.

The called “Seven Regions Project” consists of the development of an infrastructure for the distribution of natural gas through pipelines on the Regions mentioned before and will allow about 113,000 families to access natural gas. This project, with an investment of around USD200 million, is estimated to be awarded during the first quarter of 2021.

In line with the massification of natural gas policy, the DGH is evaluating a project called “Proyecto Piloto de Gas Natural en zonas Alto Andinas - Etapa I”, which seeks to improve the quality of life of the population by providing an economic and continuous energy alternative for cooking,

<sup>1</sup> Approved by DS N° 238-2019-EF.



heating, water heating and productive use, which will improve public health and economy. The project objective is to supply natural gas through pipelines to 679 families, for the referred purposes as well as the processing of agricultural products such as maca, commercial use in bakery, etc. (CAPEX: S/10.8 million and OPEX: S/3.8 per year).

Moreover, as another initiative to contribute with the massification policy, the MINEM resumed the administration of the “Fondo de Inclusión Social Energético - FISE”, seeking to enhance interactivity among professionals of the Directorate and people in charge of FISE and speed up processes for the benefit of the poorest families.

FISE, through its different programs, allows the implementation of projects that contribute to the massification of natural gas, the efficient use of LPG and the closing of gaps in energy matters.

On the other hand, the Government is implementing public policies<sup>2</sup> in order to counteract social and economic damage caused by the crisis of COVID-19 pandemic; thus, the economic recovery is a priority and a short-term challenge that needs to be met with multisectoral public and private participation. This is aligned with the International Energy Agency (IEA) and the Latin American Energy Organization (OLADE) message, which consider<sup>3</sup> that energy investments have the potential to be one of the key factors for post-pandemic recovery.

For this reason, the MINEM considered important to continue promoting investments in the sector thus, in July 2020, there were signed new contracts with Tullow Peru Limited Sucursal del Peru for the exploration and exploitation of hydrocarbons in Blocks Z-67 and Z-68 (Ancash). For the exploration phase, the estimated investment in each Lot amounts to USD48.5 million. Successful results will contribute to the energy and economic development of the Ancash region.

Additionally, the extension of the License Contract for the Exploitation of Hydrocarbons in Block 31-C (Ucayali) for ten (10) additional years comprises the commitment of Aguaytía Energy del Peru for implementing new investments in exploration, supplying 2 million cubic feet per day (MMPCD) of natural gas for the “Seven Regions Project” and as a result, this will bring economic and social development to the Ucayali region.

Furthermore, throughout the year 2020, the DGH has been promoting the modification of the Organic Hydrocarbon Law - Law 26221 and the update of main regulations for the Exploration and Exploitation of Hydrocarbons. Also, has been implementing several programs to replace diesel on cargo and passenger transportation with NGV/LNG.

Finally, the Vice-Ministry of Hydrocarbons stands committed to continuing to pursue the welfare of Peruvian population through allowing the access to cleaner and cheaper fuels that improve their quality of life.

<sup>2</sup> <https://elperuano.pe/noticia/102209-gobierno-destino-s-67199-mlns-para-contencion-y-reactivacion>

<sup>3</sup> Mesa Redonda Ministerial de América Latina 2020, co-organized by the International Energy Agency and the Latin American Energy Organization, in collaboration with Inter-American Development Bank (IADB).

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It is well known that the hydrocarbons sector worldwide is going through very challenging times. The excess of supply, even before COVID-19, added to the current lack of demand, have worsened the situation.

In Peru, the situation is not different, production has diminished in almost 50% from the 65,000 bls/d average reached during the first quarter of the year, especially due to social issues with communities living close to rainforest operations that were concern about COVID-19 impact, and also difficulties with sanitary requirements for the operations.

Nonetheless, we are still in need of energy, and hydrocarbons portrays the main energy source in our country, being around 70% from oil and gas. Furthermore, we have the resources to produce more oil and gas and also the potential to discover new fields in order to increase our reserves. It is true that future is envisioned for renewable energies looking for a cleaner world with less CO2 emissions every time.

However, in the way to that future, we have to consider oil and gas will be important actors in the grand energy transition process.

PERUPETRO S.A. is convinced that reaching our three strategic axes is possible: maximize the economic recovery of oil and gas fields in current exploitation areas, solve existing contingencies to value fields discovered within the last 10 years and replace reserves through new investments in successful exploration projects.

During 2021, PERUPETRO S.A. will launch a bidding process for Northwest blocks whose contracts are near to expire. The purpose is to maximize the recovery of oil and gas through sustainable investments and greater productivity through the incorporation of new technology driven by a better royalty framework, and above all, prioritizing the respect for the environment and harmony with society.

Also, PERUPETRO S.A. will continue promoting our country's potential. The North Jungle has an expected economic value of USD44.0 billion in resources and hydrocarbon reserves that need to be put into production in the next 20 years, otherwise, they will remain underground without generating any benefit for the country.



The Peruvian offshore is also an attractive area for investors. We are improving our technical information through a series of multiclient agreements which are performing studies along the Peruvian coastline, in order to reduce the geological uncertainties of the area.

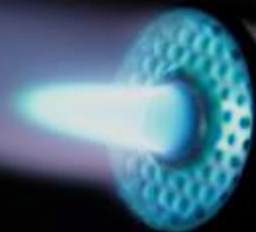
Additionally, PERUPETRO S.A. has been working on a study that will allow to establish the expected economic value of the hydrocarbon resources of the basins located in Talara, and the North and South Jungle, in order to boost the conditions that are required to make their development possible.

One of the challenges is to accelerate the political-public reform for the development of hydrocarbons in the country, and this will include: Updating the National Energy Plan, the Organic Law of Hydrocarbons reform, the Homologation of the Canon Law to improve its distribution and accountability, closing social gaps and declaring the North Peruvian Pipeline strategic.

PERUPETRO S.A. has been coordinating with the Ministry of Energy and Mines and the Ministry of Economy and Finance, the enactment of a new Royalty Framework for new contracts and, also for some current contracts, especially to make possible the development of marginal fields, heavy oil, deep reservoirs and secondary and tertiary recovery, all to make possible the exploitation of these challenging resources in a low oil price environment.

Likewise, a new Regulation for the Qualification of Oil Companies is being prepared to promote a solid national oil industry with the participation of non-oil financiers, and promote synergies.

Taking that into account, we invite investors to visit our data bank where you can review the information free of cost and confirm the incredible potential still existing in our country and to help us to become an oil self-supplied country.



# WORDS FROM PROINVERSIÓN



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In the last 10 years (2010 - 2019), Peru has been one of the fastest growing economies in the Latin America region with an average growth rate of 4.5%. This growth is driven by the stability of macroeconomic policies and a clear policy of integration and openness to international markets, which has allowed to promote investment, consumption and external demand.

The good performance of the Peruvian economy is widely recognized not only by risk rating agencies, which project a stable scenario for the country, despite the current situation, but also by the main institutional investors who maintain their interest for the country sovereign bonds. This reflects future confidence in the proper management of the economy and the evolution of the main economic indicators.

This important growth of the national economy generated a strong increase in the demand for electrical energy throughout the country, which grew at an average annual rate of 6% in the period 2010-2019. Thus, as new

projects emerged (in different productive sectors) and household electricity demand increased, investments in this sector intensified.

Although in 2020 the national economy registered a contraction, growth of around 9% has been projected for 2021 (according to the IMF), the highest rate in South America, thanks to the fiscal and monetary policies applied to contain and reverse the effects generated by the pandemic. For the following years, the outlook is also favorable.

In this context, it is foreseeable that in the coming years there will be a greater demand for energy to accelerate the progress of the economy and, in such a scenario, the Peruvian State continues to develop projects, within the framework of the National Infrastructure Plan for Competitiveness (PNIC), to ensure the efficient and continuous supply of energy for households and industry.

Currently, ProInversión promotes the concession of four energy projects in the modality of Self-financed Public-Private Partnership (PPP). The first of them is the Natural Gas Massification project to 7 regional centers in the center and south of the country (USD200 million) that includes the design, financing, construction, operation, and maintenance of natural gas distribution systems through the pipeline network. The project's objective is to provide cheap and clean energy to the high Andean area of Peru, bringing natural gas to a population of 5.6 million inhabitants.

Added to this project is the 500 kV Piura Nueva-Frontera Substation Transmission Line (USD163.5 million), which is part of the Peru-Ecuador Comprehensive Interconnection Project, and aims to promote the development of the binational electrical interconnection, with participation of private investment, which will ensure the electricity supply in both countries and carry out exchanges and transactions of electricity. The third and fourth projects, which are being tendered together, are the 138 kV Puerto Maldonado-Iberia Transmission Line and the Valle del Chira Substation of 220/60/22.9 kV (USD47 million). The Puerto Maldonado-Iberia Transmission Line is located at the southern end of the Peruvian jungle, in one of the main commercial centers of the Amazon that connects with Brazil and Bolivia through the South Interoceanic highway. Meanwhile, the Valle del Chira substation is located in the northern part of Peru and aims to strengthen the operation of the electricity system in that part of the country.

For all these projects, international public tenders will be called through which it seeks to generate competition and attract the best global operators in order to ensure the provision of services with high quality standards throughout the concession period.

It is necessary to emphasize that foreign investment can be freely developed in Peru under the same conditions as domestic investment and is not subject to meeting any performance requirements. Additionally, Peruvian regulations include special regimes that guarantee the permanence of aspects relevant to the development of investments, such as the free circulation of capital, free competition and the guarantee of private property. This policy is based on the conviction that private investment must be the engine that drives growth, and we need the participation of domestic and foreign capitals to boost the development of the huge opportunities that the country offers.

ProInversión, as a State agency, is tasked with promoting and facilitating private investment in Peru and to assist the investor at every stage, from prospecting to establishment and post-establishment. The ProInversión portfolio contains projects that will make an important contribution to improving connectivity and competitiveness in the country, and at the same time meet the needs of social infrastructure, and by closing that gap will provide even greater strength to the underpinning of sustained growth.

We welcome investors to explore the possibilities of investment in Peru and share the benefits of its promising development.

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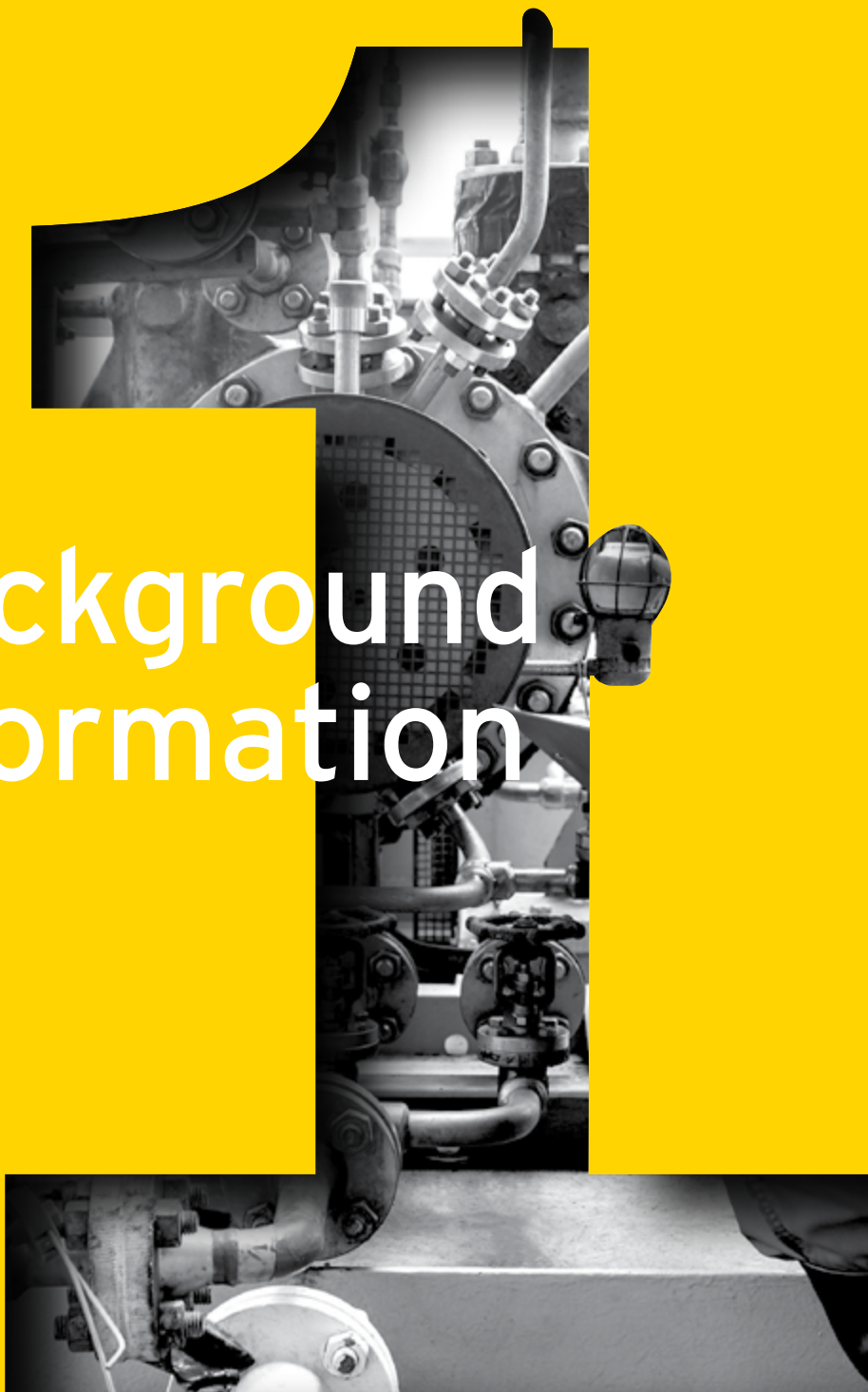
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# Background information



# 1

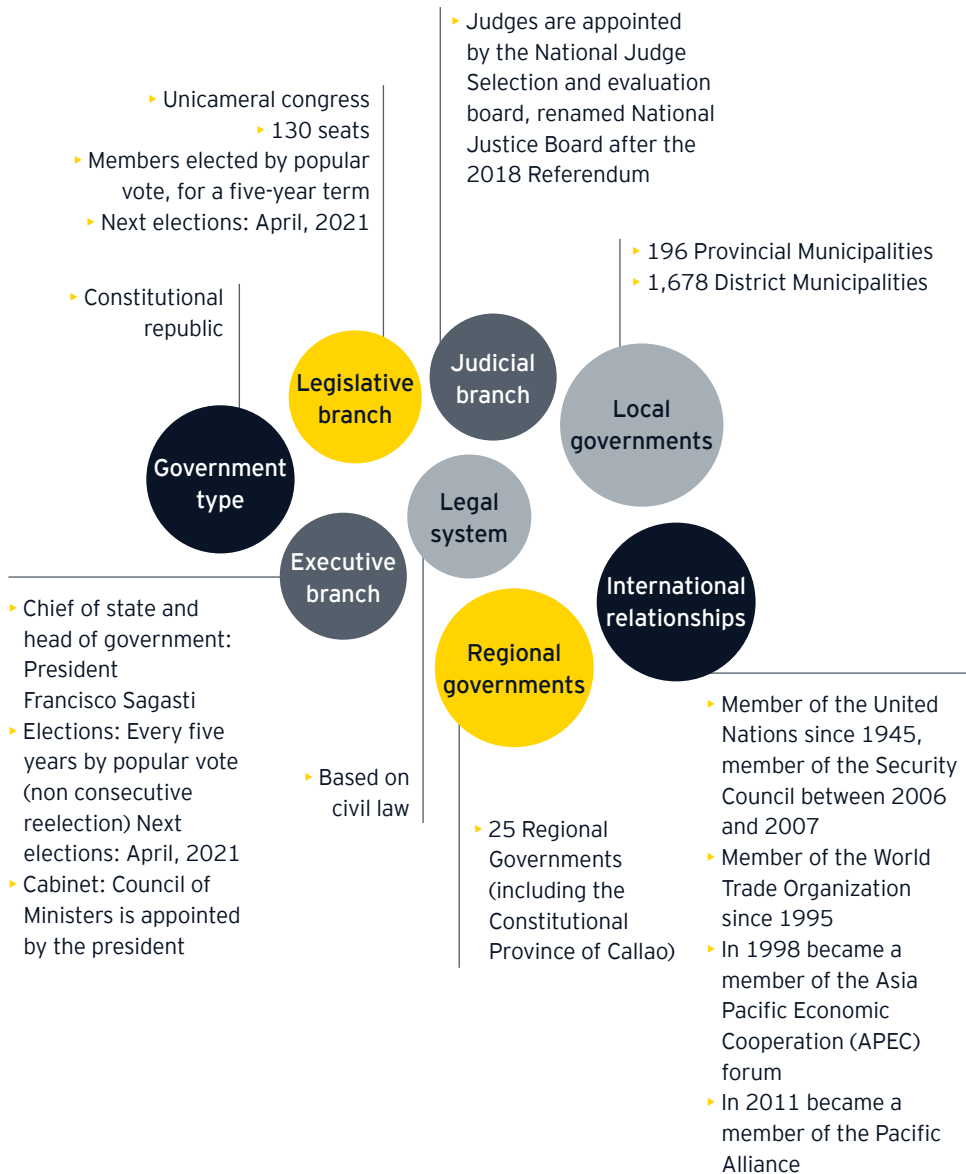
## Form of government

Peru is a democratic constitutional republic with a multiparty system. Under the Constitution of 1993, the President is the Chief of State and Head of Government. The President is elected every five years and cannot run for re-election immediately. The President appoints the Prime Minister and the members of the Cabinet. There is a unicameral Congress of 130 members elected for a five-year period. The legislative proposals can be submitted by both the executive and legislative branch, and will become law once they are approved by the Congress and promulgated by the President. The judicial and electoral bodies are independent.

The Peruvian Government is elected directly through a mandatory vote, applicable to all citizens between the age of 18 and 70. In the current period until July 28, 2021, Francisco Sagasti is the President of the Republic.



## Country overview



# 2

## Geography

Located on the west central coast of South America, Peru is bordered by the Pacific Ocean to the west, Chile to the south, Bolivia and Brazil to the east, and Colombia and Ecuador to the north. With a total land area of 1.29 million km<sup>2</sup>, Peru is the third largest country in South America after Brazil and Argentina. It may be divided geographically into three regions:

- ▶ The Coast (Costa) which is a narrow desert strip 3,080 km long that accounts for only 11.7% of Peru's territory even when it contains approximately 21.6 million inhabitants. Lima, the political and economic capital of the country, is located in this region.
- ▶ The Highlands (Sierra) which consists of the Andean Mountain Range, covers 27.9% of the territory and contains almost 7.9 million inhabitants. This region contains the country's major mineral deposits.
- ▶ The Amazon Jungle (Selva) is the largest region occupying 60.4% of Peru's territory and contains 3.1 million inhabitants. This region is rich in petroleum and forestry resources.

### Peru's geographic information



#### ▶ Population

32.6 million  
Urban 79.3%  
Rural 20.7%

#### ▶ Area

1,285,215.60 km<sup>2</sup>

#### ▶ Religion

Freedom of religion  
mostly Roman  
Catholic

#### ▶ Principal languages

Spanish / Quechua /  
Aymara

#### ▶ Climate

Varies from tropical in the Amazon region to dry on the Coast to temperate to very cold in the Highlands

#### ▶ Natural Resources

Gold, copper, silver, zinc, lead, hydrocarbons, fish, phosphates, and agricultural products

#### ▶ Timezone

GMT-5 (five hours behind Greenwich Mean Time). There is no daylight savings time, and there is only one time zone throughout the entire country.

Source: National Institute of Statistics and Information (INEI)





# 3

## People



The estimated population of Peru for the year 2020 is 32.6 million, of which 11.7 million (approximately 35.8%) reside in Lima, the capital of the country. The Economically Active Population (EAP) is about 15.7 million (as of 3rd quarter of 2020).

The predominant religion is Roman Catholicism and the main official languages are Spanish and Quechua. Aymara is also spoken in some parts of the southern Highlands region of the country. As for literacy, the estimated rate to be attained in 2020 is 94.4% of the population over age 15.

### People Overview (2020)

<b>Population</b>	32.6 million people 79.3% resides in urban areas
<b>Age Structure</b>	0 - 14 years: 24.9% 15 - 64 years: 66.1% 65 years and over: 9.0%
<b>Annual Growth Rate</b>	1.6% (2015-2020)
<b>Birth Rate</b>	17.4 births/1,000 population
<b>Death Rate</b>	5.9 deaths/1,000 population
<b>Gender Ratio</b>	At birth 1.02 female/male
<b>Life Expectancy at Birth</b>	76.9 years

Source: National Institute of Statistics and Information (INEI)

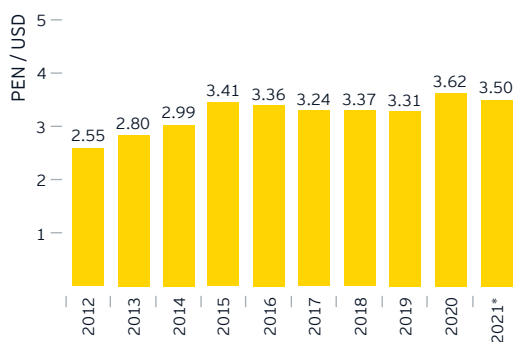
# 4

## Currency

The official currency of Peru is the Sol (S/). The country has a free-floating exchange rate regime. As at December 31, 2020, banks were buying US dollars at S/3.616 and selling them at S/3.621. Parallel market rates are slightly different.

There are no restrictions or limitations on holding bank accounts in foreign currency or to remit funds abroad.

### Exchange Rate



\*Forecast as at December, 2020

Source: Central Reserve Bank of Peru (BCRP)



# 5

## Economic Overview

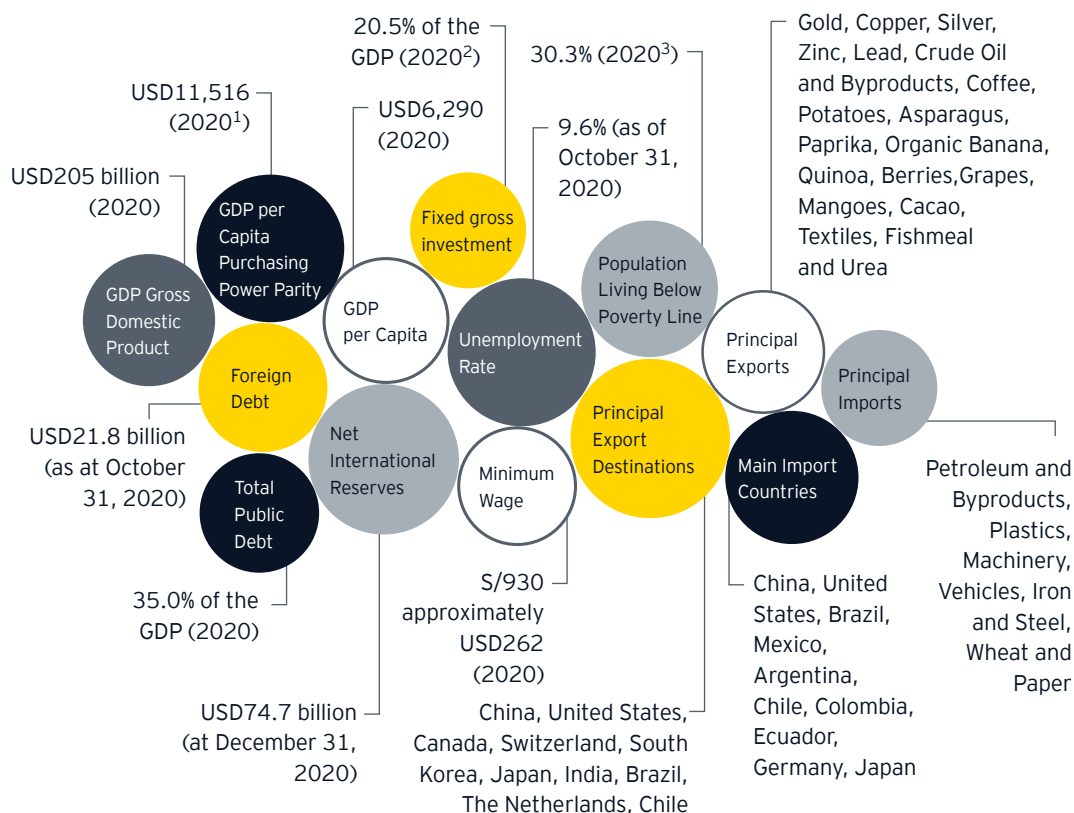


Peru has rich deposits of copper, silver, gold, lead, zinc, natural gas, and petroleum. Due to climate variations in its regions, as well as its natural and cultural resources, it is internationally classified as a mega-diverse country.

Peru's economy reflects its varied geography, an arid coastal region, the Andes further inland, and tropical lands bordering Colombia and Brazil. Abundant petroleum resources are found mainly in the Amazon Jungle area. In recent years, Peru has achieved significant advances in social and development indicators as well as in macroeconomic performance, with very dynamic GDP growth rates, reduction of external debt, a stable exchange rate, and low inflation which in 2020 was 2.0%, within the Central Bank's annual target range of 1% to 3%.

The country has had continuous economic and political stability since the early 1990's and grew 119% between 2000 and 2020. Due to prudent macroeconomic policies, investor friendly market policies and the government's aggressive trade liberalization strategies, Peru has achieved significant progress in social and economic development indicators as well as dynamic GDP growth rates, reduction of external debt, a stable exchange rate and low inflation.

## Peru's Economic Overview



<sup>1</sup>Calculated according to the World Economic Outlook for October 2020. International Monetary Fund (IMF).

<sup>2</sup>Calculated according to the December 2020 Inflation Report. Central Reserve Bank of Peru (BCRP).

<sup>3</sup>Estimate from the United Nations Children's Fund (UNICEF) as of October 2020.

Sources: Central Reserve Bank of Peru (BCRP), Ministry of Economy and Finance (MEF), National Institute of Statistics and Information (INEI), International Monetary Fund (IMF)

Following a 2.2% GDP growth in 2019, Peru faced a drop in output in 2020 of 11.1% of its GDP after being one of the first countries in the region to impose a lockdown to stop the spread of coronavirus. Nevertheless, Peru's economic stimulus plan equivalent to 20% of GDP, according to the Ministry of Economy and Finance, will speed up the recovery in 2021 with an expected GDP growth rate estimated at 11.5%.

The country's macroeconomic resilience has much to do with the competent monetary and fiscal policy pursued particularly over the past decade, with a stable fiscal balance without exceeding the 3% in the past years and falling levels of public indebtedness (from 44.7% of GDP in 2004 to just 26.8% in 2019), among the lowest of the region. Additionally, despite the world economy fluctuations and supply shocks, foreign reserves represent approximately 38% of Peru's GDP reaching USD74.7 billion in December 2020.



The country has benefited from a steady improvement in its terms of trade since 2000, which has had a positive impact on the trade balance. Moreover, the country has engaged in several bilateral and multilateral trade agreements that have opened new markets for its exports.

In 2020, Peru's total exports reached USD42.4 billion. Although the external sector's contribution to economic growth has been diminishing, exports have remained strong. Peru's imports are mainly consisting of final and intermediate goods, as opposed to exports, in which mineral and ore account for most overseas sales.

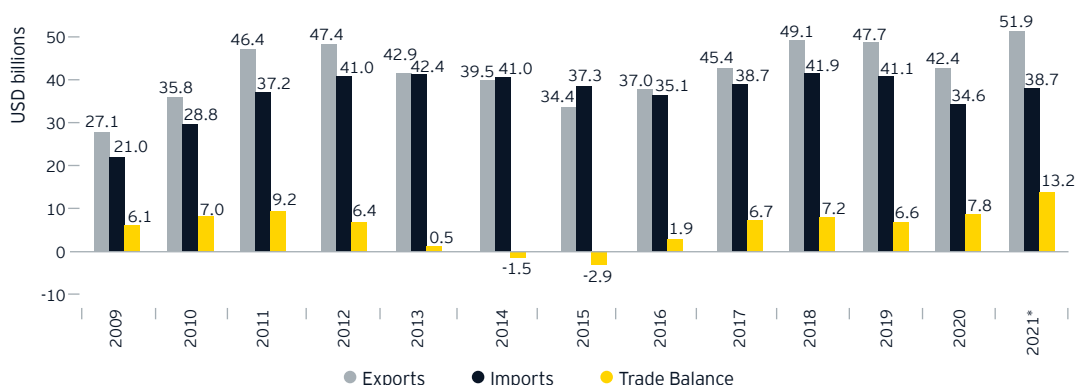
Peru's economy has decreased 11.1% in 2020 because of the impact of COVID-19. However, the economy is expected to remain on a solid footing in 2021, as internal and external demand will stimulate Peruvian production and exports, and the government's efforts to cut red tape should boost private investment. As in past external economic crises and recession episodes from which Peru's growth has recovered

“

Uninterrupted economic growth over the past 20 years until 2019 has consistently contributed to the improvement of living of all Peruvians

rapidly, the country stands out for its sufficient macroeconomic stability and strength to face the health and economic crisis. Proof of this has been the considerable economic rescue package for companies and families, one of the largest among the countries in the region, to revive the economy and ensure health attention to the population.

### Trade balance (in USD Billions)



\*Forecast. Inflation Report of December, 2020

Source: Central Reserve Bank of Peru (BCRP)

## Peru's main economic activities

Peru's main economic activities include agriculture, fishery, mining, the exploitation of petroleum and gas, and the manufacturing of goods, most notably textiles. The sharply contrasting geographical areas of Peru make it a particularly diverse country, with a wide variety of ecosystems, and thus, flora and fauna.

In 2019, Peru ranked as the world's top producer of fishmeal (USD1.5 billion exported); and it is the third-largest exporter of avocado (USD752 million exported in 2019). It is also an important producer and exporter of fresh asparagus (USD400 million in 2019), fresh grapes (USD874 million in 2019) and natural calcium phosphates (USD242 million in 2019).

In mining, according to the U.S. geological survey, Peru ranked second in the world in 2020 in the production of silver, copper and zinc, third in lead, fourth in tin, mercury and molybdenum, and eight in gold besides having large deposits of iron ore, phosphates, manganese, petroleum, and gas. The principal destinations for Peruvian copper are China and Japan, gold to Switzerland, Canada and India, zinc to South Korea and silver to the United States.

One of the economic activities that is recently being exploited and which shows great potential is that of forestry resources (cedar, oak, and mahogany, mainly).

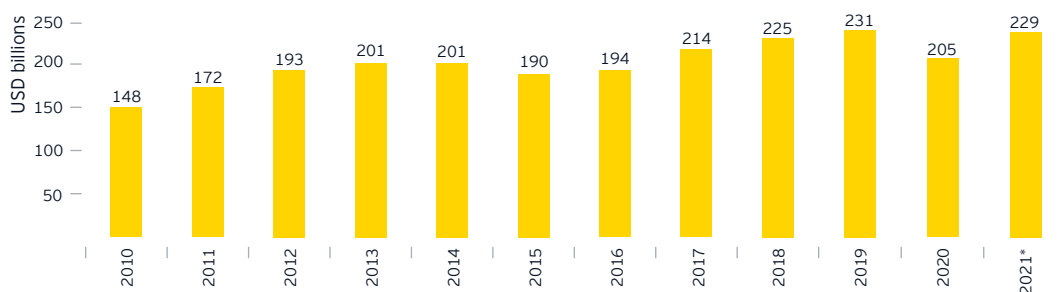
## Main Economic Activities by Region



## Gross Domestic Product

The Peruvian economy has strong macroeconomic indicators thanks to the implementation of a countercyclical macroeconomic policy and a favorable external environment. GDP in 2020 reached USD205; it is estimated to be at USD229 billion in 2021; however, it is expected a speedy recovery. The Peruvian economy would grow 4.1% annually on average between 2022 and 2026, according to estimates by the Ministry of Economy and Finance.

### Peru's GDP (in USD Billions)



\*Forecast. Inflation Report of December, 2020

Source: Central Reserve Bank of Peru (BCRP)

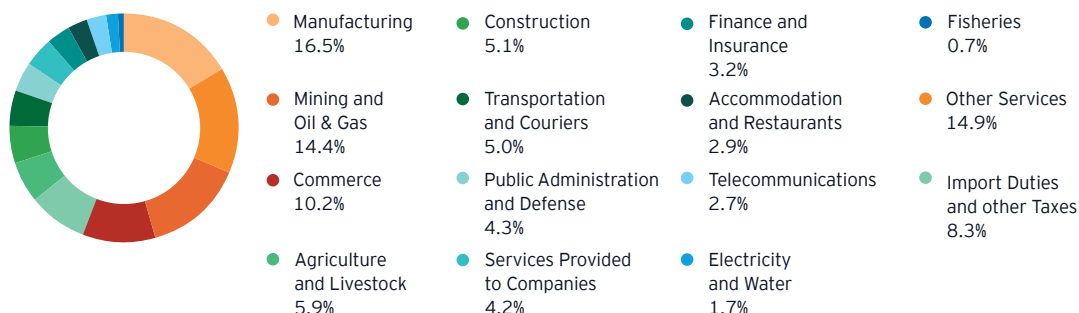
### Gross Domestic Product by Industry (in percentage change)

Type of Company	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021*
Agriculture and Livestock	4.1	5.9	2.7	1.6	3.5	2.7	2.8	7.8	3.4	1.3	2.7
Fisheries	52.9	-32.2	24.8	-27.9	15.9	-10.1	4.7	47.7	-25.9	2.1	8.5
Mining	-2.1	2.5	4.3	-2.2	15.7	21.2	4.5	-1.7	-0.8	-13.5	14.4
Oil & Gas	5.1	1.0	7.2	4.0	-11.5	-5.1	-2.4	0.0	4.6	-11.0	6.8
Manufacturing	8.6	2.5	4.9	-3.6	-1.5	-1.4	-0.2	5.9	-1.7	-13.4	8.0
Electricity and Water	7.6	5.8	5.4	4.9	5.9	7.3	1.1	4.4	3.9	-6.1	7.9
Construction	3.6	15.8	9.0	1.9	-5.8	-3.2	2.1	5.3	1.5	-13.9	17.4
Commerce	8.9	7.2	5.9	4.4	3.9	1.8	1.0	2.6	3.0	-16.0	18.4
Other Services	7.0	7.0	6.1	5.1	4.1	4.1	3.3	4.4	3.8	-10.3	9.5
<b>GDP</b>	<b>6.5</b>	<b>6.0</b>	<b>5.8</b>	<b>2.4</b>	<b>3.3</b>	<b>4.0</b>	<b>2.5</b>	<b>4.0</b>	<b>2.2</b>	<b>-11.1</b>	<b>11.5</b>

\*Forecast. Inflation Report of December, 2020

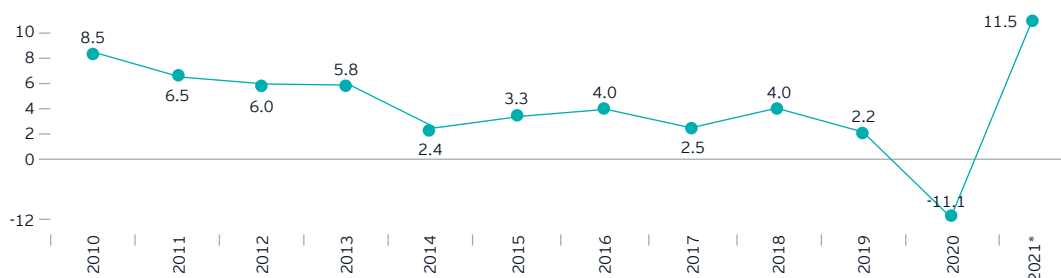
Sources: Central Reserve Bank of Peru (BCRP), National Institute of Statistics and Information (INEI)

## Composition of Peru's Gross Domestic Product by Economic Sector in Percentage, using the Economic Structure with a Base Estimate Year of 2007



Source: National Institute of Statistics and Information (INEI)

## Gross Domestic Product (in percentage change)



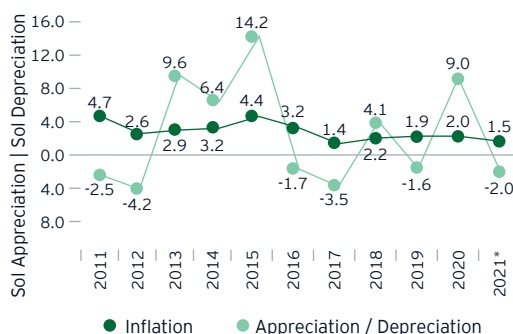
\*Forecast. Inflation Report of December, 2020

Sources: Central Reserve Bank of Peru (BCRP), National Institute of Statistics and Information (INEI)

## Appreciation / Depreciation

In 2020, the inflation rate in Peru was 2.0%. The annual depreciation rate of the Sol against the US Dollar for 2020 was 9.0%.

According to the Central Reserve Bank of Peru (BCRP) it is estimated that at the end of the year 2021, the inflation rate will be 1.5% below the forecasted range, and depreciation will be around 2.0%.



\*Exchange rate is estimated at PEN3.50. Inflation forecast according to the December 2020 Inflation Report

Sources: Central Reserve Bank of Peru (BCRP), Ministry of Economy and Finance (MEF)

# 6

## Infrastructure and services

It is expected that Peru will only realize its full economic potential after reducing its infrastructure bottlenecks. According to the National Infrastructure Plan for Competitiveness (NIPC), updated to 2019, the current infrastructure gap is USD35.4 billion in the short term (five years) and USD109.8 billion in the long term (20 years).

Hydrocarbons is one of the sectors affected by this constraint since oil & gas companies need to have access to transportation facilities to deliver their products to national and international markets. Well-developed infrastructure reduces the effect of distance between regions, with the result of truly integrating the national market and connecting it at low cost to markets of other countries and regions.

The Government has been evaluating different alternatives to reduce such problems. One of those alternatives is the construction of pipelines, i.e. to transport natural gas extracted from Camisea's gas fields to the center and south region of Peru (covering 7 regions). Another important alternative under analysis is the modernization of the Northern Peruvian Pipeline, constructed to transport oil -40 years ago- from the north region of Peru to the coast.

Moreover, this need for infrastructure also reaches the electricity sector. According to the NIPC, the electricity sector has a significant number of transmission and sub-transmission projects to be developed. The economic benefits of its implementation are expected to facilitate investment and development of new industries that require a continuous supply of electricity. Likewise, this is expected to contribute to the creation of new jobs and the transformation of primary products, generating added value and new opportunities. In addition, it is expected to have universal access and continuous service of electricity, reducing power outages, benefiting both business activity and education.

In recent years, Peru has begun to take the necessary measures to improve its underprivileged infrastructure (transport facilities, hydrocarbons, electricity, water and communications) in order to promote new investments which will contribute to the development of the productive sectors of the country.

In this sense, the Promotion Agency of Private Investment of Peru (ProInversión) have been working on the design of a standardized Public-Private Partnerships (PPP) contract, as established by Legislative Decree No.1362 and its regulations, in order to give the market predictability, and to adopt international best practices and adapt them to national legislation.

From 2009 to July 2020, a total of 401 works were awarded for an amount of S/4.9 billion. Likewise, as of 2019, ProInversión exposed, along with other entities of the National, Local and Regional Governments and Public Universities, the Works for Taxes portfolio for a total of 461 prioritized projects, with a total investment of S/9.4 billion (approximately USD2.6 billion).





## Public-Private Partnerships

Peruvian laws have incorporated PPP as a kind of private investment participation. PPP are executed under the form of concession, operation, management, joint venture and any other modality admitted by Peruvian laws. The main characteristic of PPP is the distribution of risks between the Peruvian Government and the privates.

PPP projects provide the opportunity to invest by means of the use of expertise, equipment, technology, among other tools in order to create, develop, improve, operate or maintain public infrastructure or provide public services. This modality of investment can be requested as of a private initiative or through a public tender.

In its 21 years of existence, ProInversión has carried out processes that have meant more than USD50.0 billion in investment commitments. To this regard, the 2021 portfolio of ProInversión is comprised of 19 matured PPP projects for an amount more than USD5.9 billion.

Regarding projects related to the energy sector, in its current portfolio, ProInversión has announced a total of 4 projects for an investment amount of USD782 million.

The Massive Natural Gas Use Project for Central and South Peru is a self-funded project to carry out the construction of natural gas distribution systems by pipeline network in 12 cities located in the regions of the Apurímac, Ayacucho Regions, , Huancavelica, Junín, Cusco, Puno and Ucayali. The 500 KV Transmission Line Project and the Piura Nueva - Frontera substation (263.2 km) is an international interconnection project with Ecuador, which begins its journey in Piura's substation, located in the north of the country, and extends to the point of crossing the border with Ecuador. The project of the transmission line 138 kv Puerto Maldonado - Iberia and the 100 mva 220/60/23 kv Valle del Chira Substation aims to supply the electricity supply to the city of Iberia with energy from the National Interconnected Electric System, to expand the substation of Puerto Maldonado and allow greater reliability of energy supply in the department of Piura.

The last two electric projects were included as part of the ambitious plan to expand the energy transport capacity launched by the Ministry of Energy and Mines, the Transmission Plan, which consists of a periodic study by means of which the necessary projects to maintain or improve the quality, reliability, safety or economy of the country's electrical system are identified.



## Works for taxes

Works for taxes is a regime that consists of the joint participation between a private company and a public entity to develop and execute a public investment project. Upon the signature of an agreement, the private company commits to carry out a project in exchange of the recognition of the investment and disbursements made as a credit against income tax, through the issuance of a Regional and Local public Investment Certificate.

This regime has become an efficient tool of Corporate Social Responsibility, allowing an efficient and direct application of public funds on behalf of regional governments, local governments, public universities and national government's entities in sectors such education, health, security, tourism, agriculture and irrigation, culture, sanitation, sports, and the environment, among others.

It is important to highlight that on December of 2016, by means of Legislative Decree No. 1202, Petroperu (National Oil Company) was authorized to use Works for Taxes mechanism. The reason of such decision relies on the difficulties Petroperu faced when was developing its activities in areas in which social conflicts arise easily. In this sense, Petroperu can develop corporate responsibility activities by this mechanism in the areas of influence of its projects.

Note that also in the case of the energy sector, the investments can cover the remediation, construction and equipment of electric systems and rural electrification projects.

Of the current ProInversión portfolio, 42 projects are linked to the energy sector and will be awarded through MINEM and the corresponding Municipal Governments, the amount of investment for these projects rises to S/1,003 million (USD287 million), representing 11% of the total portfolio.



## 7

Peru's  
investment-  
grade

Peru has maintained its investment-grade credit rating since Moody's Investors Services raised it to that level in December, 2009 matching moves made by Standard & Poor's and Fitch Ratings the previous year. Sound economic prospects and strong external liquidity buffers are a key supporting factor for the investment-grade rating. Peru's robust growth prospects are supported by important investments levels. The upgrade is also supported by the significant decline in Peru's fiscal and external vulnerabilities within a context of high and diversifying sources of growth with low inflation and strengthening macroeconomic fundamentals. It is expected that these trends will remain in place over the medium term despite an increasingly riskier international environment. It is well known that countries with investment grade ratings gain a higher level of confidence that generates more foreign and domestic investment. The risk premium demanded by multinationals and foreign investors is slashed after the upgrade. At the same time, the investment horizon is elongated. The same occurs with domestic investment. Local investors gain more self-confidence, thus allowing themselves to consider opportunities with lower rates of return. The impact is immediate, as consumers gain access to credit with more favorable terms.

The upgrade to investment grade has brought Peru a lot of positive attention worldwide. More importantly, it has had a positive impact on the local economy and should help to boost the stock market and the appreciation of the Peruvian currency, the Sol, in the short term. For this reason, nowadays, many multinational corporations look at the country more seriously, as higher private investment is flowing into the country. This should contribute to alleviating a still complex social situation in Peru, by achieving improvements in employment and decreases in poverty.

## Sovereign Credit Ratings in Latin American Countries

Country	S&P	Fitch	Moody's
Chile	A+	A-	A1
Peru	BBB+	BBB+	A3
Mexico	BBB	BBB-	Baa1
Colombia	BBB-	BBB-	Baa2
Uruguay	BBB	BBB-	Baa2
Paraguay	BB	BB+	Ba1
Bolivia	B+	B	B1
Brazil	BB-	BB-	Ba2
Argentina	CCC+	CCC	Ca
Ecuador	B-	B-	Caa3
Venezuela	SD	WD	C

As at January, 2021

Sources: Standard & Poor's, Fitch Ratings, Moody's

S&P / Fitch	Moody's	Feature
AAA	Aaa	Risk Free
AA+, AA, AA-	Aa1, Aa2, Aa3	High Grade
A+, A, A-	A1, A2, A3	High Repayment Capacity
BBB+, BBB, BBB-	Baa1, Baa2, Baa3	Moderate Repayment Capacity
BB+, BB, BB-	Ba1, Ba2, Ba3	Some Repayment Capacity
B+, B, B-	B1, B2, B3	Highly Uncertain Repayment Capacity
CCC+, CCC, CCC-, CC	Caa1, Caa2, Caa3	Extremely Vulnerable to Default
SD/RD	C	Default

Sources: Standard & Poor's, Fitch Ratings, Moody's

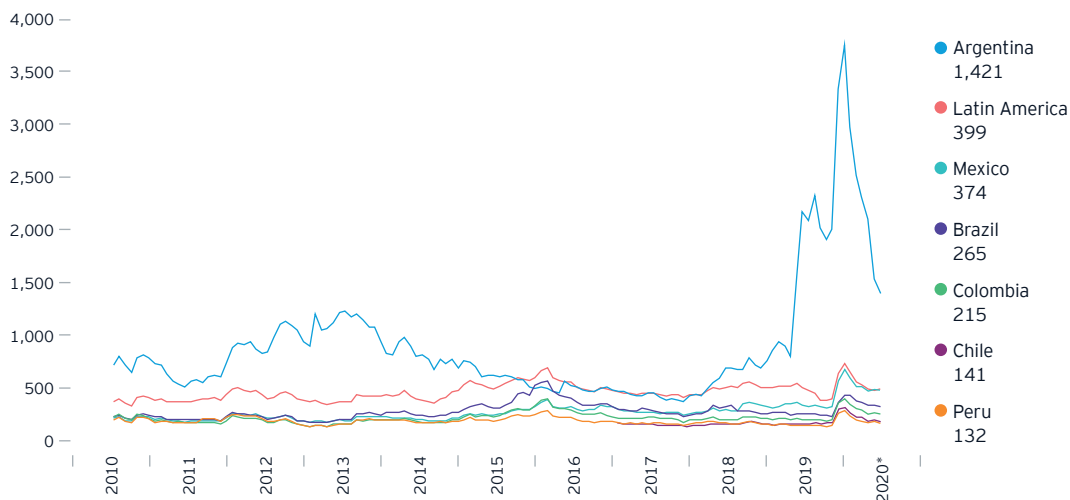
## Country risk (EMBIG)

In January 2021, Peru had a country risk of 132 base points, ranking as the lowest in Latin America. This score was one-third of the regional average (399 points).

Peru achieved the position of the third most globalized country in Latin America, according to the Globalization Index established by EY. Five elements are considered within this index: openness to foreign trade, capital flows, exchange of technology and ideas, international movement of workers, and cultural integration. Additionally, in early 2018 Bloomberg Markets positioned Peru as the ninth emerging market with the greatest international projection, based on the country's advantages, such as low share prices and their possible increase in the future.

As may be seen in the following charts, Peru's level of inflation is one of the lowest in Latin America, with a rate of 2.0% in 2020, and an estimated rate of 1.5% for 2021. In addition, over the past decade, the Peruvian economy had the lowest average annual inflation rate in Latin America, at 2.5%, below that of Chile (3.1%) Colombia (3.8%) and Brazil (5.8%).

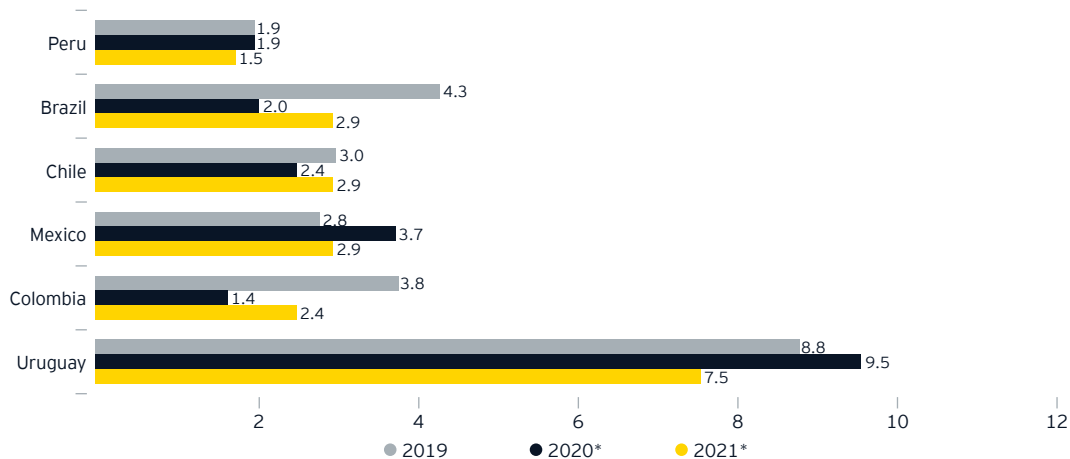
## Country Risk Indicator (Spread - EMBIG)



\*Figures as at January, 2021

Source: Central Reserve Bank of Peru (BCRP)

## Inflation in Latin America (annualized percentage rate)



\*Estimate. World Economic Outlook Database, October 2020. For Peru, forecasts are based on the December 2020 Inflation Report.

Sources: International Monetary Fund (IMF), Central Reserve Bank of Peru (BCRP)



## 8

Investment  
promotion  
conditions**Foreign Investment Legislation and Trends in Peru**

The Peruvian government is committed to the pursuit of an investor-friendly policy climate. It actively seeks to attract both foreign and domestic investment in all sectors of the economy. It has therefore taken the necessary steps to establish a consistent investment policy, which eliminates all obstacles for foreign investors; with the result that now Peru is considered to have one of the most open investment regimes in the world.

In an attempt to reduce the political risk perception of the country, Peru has adopted a legal framework for investments which offers automatic investment authorization and establishes the necessary economic stability rules to protect private investors from arbitrary changes in the legal terms and conditions of their ventures and reduces government interference with economic activities.

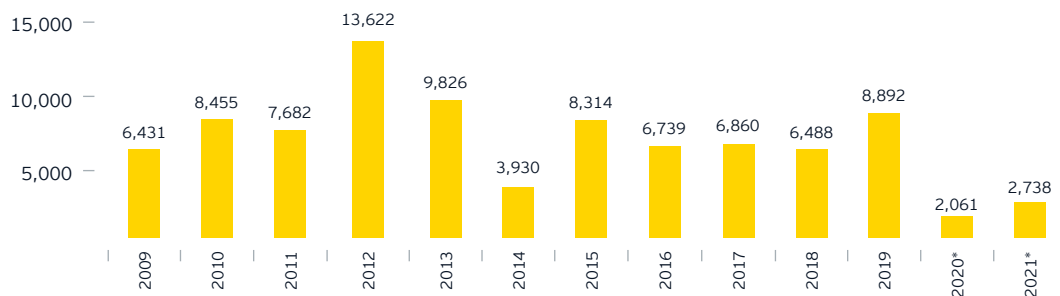
Peru's Central Bank reported that the foreign direct investment (FDI) inflow reached USD8.8 billion in 2019. Despite the drop of FDI up to USD2.0 billion, it is expected to recover 30% reaching USD2.7 billion for 2021. FDI is concentrated in mining, communications, finance, manufacturing and energy.

The Peruvian government guarantees foreign investors legal stability on income tax regulations and dividend distributions. Foreign investors entitled to obtain tax and legal stability are those willing to invest in Peru, in a two-year term, at least USD10 million in the hydrocarbon and/or mining sectors; USD5 million in any other economic activity or to acquire more than 50% of the shares of a privatized state-owned company.

Peruvian laws, regulations, and practices do not discriminate between national and foreign companies. Accordingly, national treatment is offered to foreign investors. There are no restrictions on repatriation of earnings, international transfers of capital, or currency exchange practices. The remittance of dividends, interests and royalties has no restrictions either.

Foreign currency may be used to acquire goods abroad or cover financial obligations as long as the operator is in compliance with the relevant Peruvian tax legislation.

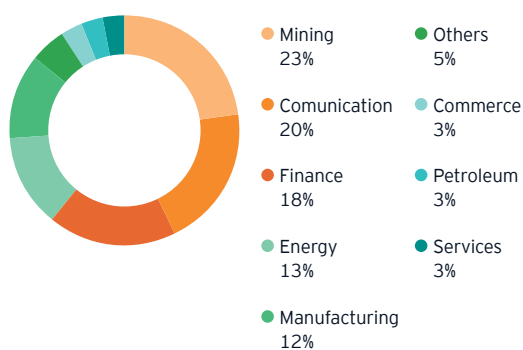
## Foreign Direct Investment (in USD Millions)



\*Forecast. Inflation Report of December, 2020

Source: Central Reserve Bank of Peru (BCRP)

## Foreign direct investment stock by sector (2020)



Source: ProInversión

## Elimination of bureaucratic barriers

Due to the last tax reform, many modifications were introduced regarding the regulation of the activities carried out by public administration entities. Because of this, Legislative Decree No. 1256 declared the elimination of illegal and unreasonable bureaucratic barriers that may have been hindering the access or permanence of economic agents into the Peruvian market or that may have contravened laws or principles related to the bureaucratic simplification process.

The aforementioned Legislative Decree aims at public administration entities and all public employees and encourages them to its compliance to improve the use of public resources and to promote the efficiency in the functioning of public administration entities.

## Merger control rules in the electric sector

In November 2019, was published the Emergency Decree No. 013-2019 which approved for the first time in Peru a prior control of business concentration operations that will be applicable for all sectors of the Peruvian economy.

INDECOPI will be responsible for evaluating whether the operation could generate significant restrictions on competition and, based on this, will deny or approve the operation with and without conditions.

Due to the health crisis caused by COVID-19, the entry into force of this regulation was extended until March 1st, 2021, so that the necessary implementation actions by the different sectors and entities can be properly completed. If the indicated date arrives, the

existing functions control regime for the electricity sector, approved by Law 26876, will remain in force.

In October 2020, the Congress of the Republic approved the Law that establishes the prior control of business control operations, which would replace the Emergency Decree mentioned above. However, the MEF indicated that it would observe said rule because it did not consider, among others, the powers of the SBS in mergers between institutions of the financial system.

Regarding the electricity sector, the Peruvian Institute for the Protection of the Consumer and Copyright (INDECOPI) has established special regulations on horizontal and vertical mergers which involve entities that develop electrical energy generation, transmission and distribution activities. These rules aim to avoid cases of clusters that may damage, distort or diminish the free market and free concurrence principles of the sector.

For these purposes, a previous authorization for mergers must be requested to INDECOPI's Defense of Free Market Commission by entities who, jointly or separately, own 15% of the market in the case of horizontal concentration (develop one electrical activity), and 5% in the case of vertical concentration (develop two or more electrical activities), before or after the merger. This authorization must be duly supported with documentation.

Once this authorization is requested, the Technical Secretariat of the aforementioned Commission must evaluate if the support

documentation is enough for purposes of the requested authorization's evaluation. If not, the Commission and its Technical Secretariat are allowed to request further information.

When the information is complete, the Commission has 30 business days in order to evaluate the request. The term for the authorization evaluation may be extended if it is necessary. While this proceeding is in course, the Commission is allowed to suggest modifications to the merger scope and limitations in order to make it free of negative effects on the market of generation, transmission and distribution of electrical energy.

If the authorization is denied, an appeal may be presented before the Defense of the Competence Tribunal No. 1. This Tribunal will reconsider the authorization request and issue a final decision within the next 30 business days.

Notice that in case the vertical or horizontal concentration results from a ProInversión approved promotion project, the aforementioned authorization proceeding may differ.

It is worth mentioning that in April 2020, INDECOPI authorized under certain conditions the acquisition of 83.6% of the shareholding of Luz del Sur S.A.A., the largest electricity distribution company in Peru, by a Chinese economic group. The transfer was made for an approximate amount of USD3.6 billion, and it was the last operation approved under the merger control regime of the electricity sector.



## Real estate investment promotion rules

On August, 2015, by means of Legislative Decree No. 1188, Peru enacted special rules with tax incentives to promote Real State Investment Trusts (REITs) in Peru, called in Spanish as Fondos de Inversión en Bienes Inmobiliarios (FIRBI's). Under these rules, companies who provide real state to the said funds from January 1st, 2016 until December 31st, 2019, shall consider that such alienation took place in the date in which the FIRBI transfers real state to a third party or to another participant; or when the company transfers its participation certificates issued by the FIRBI as a consequence of its contribution. The mentioned Legislative Decree also includes certain provisions with tax incentives on municipal taxes (Property Transfer Tax). This regulation has been effective since January 1st, 2016.

As reported by the Superintendence of the Securities Market (SMV), as of December 2019, there were 6 FIRBI registered in the Public Registry of the Securities Market, USD120 million placed and 720 participants, being 98% individuals.

## Recognition of favorable investment climate

According to the World Economic Forum 2019, Peru is among the top countries in terms of macroeconomic stability. That is why the World Bank (WB) and the International Monetary Fund (IMF) estimate that Peru will lead the region's growth above 7.5% for 2021. On the other hand, according to the risk rating agency Moody's Investors Service, Peru's solid economic fundamentals will determine a strong rebound after the pandemic, at around 8% economic growth in 2021, well above expectations for the rest of Latin America.

## Exemption of capital gains in the Stock Exchange

On December 10th, 2016, Peru enacted Legislative Decree No. 1261 on the Official Gazette, which made several changes to the Peruvian capital gain temporary exemption.

This exemption was already in force due to Law No. 30341, but was only applicable on capital gains performed in the Stock Exchange that were derived from stocks and securities representative of stocks. Due to Legislative Decree No. 1262, the exemption was extended to the following securities:

- ▶ Debt securities.
- ▶ Mutual Funds quotes.
- ▶ Trading invoices.
- ▶ Certificates from Funds in Immovable Property (FIRBIs shares).
- ▶ Certificates from Trusts in Immovable Property (FIBRAs shares).

In order to apply for the exemption on the aforementioned securities, certain requirements must be observed, as established by Legislative Decree No. 1262.



## Global Competitiveness Index

	2018		2019	
	Ranking	Score	Ranking	Score
<b>Peru Total</b>	<b>63/140</b>	<b>61.3</b>	<b>65/141</b>	<b>61.7</b>
Enabling environment	64	64.1	70	64.2
- Institutions	90	50.2	94	48.9
- Infrastructure	85	62.4	88	62.3
- ICT adoption	94	43.9	98	45.7
- Macroeconomic stability	1	100.0	1	100.0
Human capital	43	75.5	44	77.4
- Health	32	93.3	19	94.6
- Skills	83	58.6	81	60.2
Markets	48	60.1	51	59.9
- Product market	50	59.5	56	57.1
- Labor market	72	58.8	77	59.0
- Financial system	63	60.5	67	61.4
- Market size	49	61.6	49	62.2
Innovation ecosystem	93	43.2	94	44.3
- Business dynamism	92	54.5	97	55.8
- Innovation capability	89	31.9	90	32.7

Source: World Economic Forum (WEF)

## Ease of Doing Business in Peru

Also, according to Doing Business 2020, Peru ranks 76th out of 190 countries in terms of

ease of starting a company and doing business, and ranks sixth in Latin America.

## Doing Business in Latin American Countries

Positon	Country
59	Chile
60	Mexico
65	Puerto Rico (United States)
67	Colombia
74	Costa Rica
<b>76</b>	<b>Peru</b>
86	Panama
91	El Salvador
96	Guatemala
101	Uruguay
115	Dominican Republic

Source: World Bank (WB) - Doing Business 2020

## Forbes in Latin American Countries

Positon	Country
33	Chile
48	Costa Rica
54	Mexico
58	Uruguay
<b>64</b>	<b>Peru</b>
67	Colombia
73	Brazil
75	Panama
76	Argentina
91	Dominican Republic
97	Guatemala

Source: Forbes 2019



## Summary of Doing Business Indicators

Indicators		Peru	Latin America and The Caribbean
Starting a business	▶ Number of procedures	8.0	8.1
	▶ Time (days)	26.0	28.8
	▶ Cost (% of income per capita)	9.4	31.4
	▶ Registration of minimum paid-up capital (% of income per capita)	0.0	0.4
Construction permits	▶ Number of procedures	19.0	15.5
	▶ Time (days)	137.0	191.2
	▶ Cost (% of warehouse cost)	1.7	3.6
Registration of property	▶ Number of procedures	6.0	7.4
	▶ Time (days)	9.5	63.7
	▶ Cost (% of property cost)	3.9	5.9
Electricity service	▶ Number of procedures	6.0	5.5
	▶ Time (days)	67.0	66.8
	▶ Cost (% of income per capita)	448.5	407.2
Granting of credits	▶ Strength of legal rights index (0-12)	7.0	5.3
	▶ Depth of credit information index (0-8)	8.0	5.1
	▶ Credit registry coverage (% of adults)	39.4	14.6
	▶ Credit bureau coverage (% of adults)	100.0	47.6
Protection of minority investors	▶ Extent of disclosure index (0-10)	9.0	4.1
	▶ Extent of shareholder rights index (0-6)	6.0	3.0
	▶ Number of payments per year	8.0	28.2
Payment of taxes	▶ Time (hours per year)	260.0	317.1
	▶ Total tax and contribution rate (% of profit)	36.8	47.0
Trading across borders	▶ Time to export - Documentary compliance (hours)	24.0	35.7
	▶ Cost to export - Documentary compliance (USD)	50.0	100.3
	▶ Time to export - Border compliance (hours)	48.0	55.3
	▶ Cost to export - Border compliance (USD)	630.0	516.3
Enforcement of contracts	▶ Time (days)	478.0	774.2
	▶ Cost (% of claim value)	41.2	32.0
	▶ Quality of legal proceedings (0-18)	9.5	8.8
Resolving insolvency	▶ Time (years)	3.1	2.9
	▶ Cost (% of assets)	7.0	16.8
	▶ Recovery rate (cents/dollar)	31.3	31.2

Source: World Bank (WB) - Doing Business 2020

## Settlement of investment disputes

Foreign investors are protected against inconvertibility, expropriation, political violence and other non-commercial risks through access to the corresponding multilateral and bilateral conventions such as the Overseas Private Investment Corporation (OPIC) and the Multilateral Investment Guarantee Agency (MIGA).

Also, Peru has joined the International Convention for Settlement of International Disputes (ICSID) as an alternative to settle disputes arising between investors and the government. In addition, Peru has signed 32 Bilateral Investment Treaties (BIT) and 14 Free Trade Agreements (FTAs) which include a chapter related to investment.



## Bilateral Investment Treaties (BIT)



Source: ProInversión

## Pacific Alliance

The Pacific Alliance is a mechanism for in-depth integration, established by the Declaration of Lima, signed by Peru, Chile, Colombia and Mexico on April 28, 2011. Its founding instrument is the Pacific Alliance Framework Agreement, signed on June 6, 2012 in Antofagasta Chile. Its profile is predominantly economic and commercial, and its fundamental purpose is to become an area that fosters greater growth, development and competitiveness of its economies with a view to improving its projection to the world and contributing to an economic rise with social inclusion.

The Pacific Alliance's Framework Agreement determines that, as a fundamental part of the plan to achieve its objectives, efforts should be directed towards the free trade of goods and services, the free movement of people and capitals, and the development of cooperation mechanisms to encourage investment, as well as the sustainable quality of life for its populations.

As part of this, the Pacific Alliance member countries are completing their legal framework in order to promote the achievement of their objectives, basing their actions on four main issues:

### ► Trade and integration

The Alliance has focused on the fostering of negotiations that translate into measures that will facilitate trade and customs cooperation between members. Efforts are focused towards eliminating tariff barriers, the

cumulation of origin with regard to products that contain materials originating in one of the member countries, provided that the customs tariff is 0% everywhere, the reduction of technical obstacles to trade and the alignment with health and phytosanitary measures.

### ► Capitals and services

Within the scope of capitals and services, the Pacific Alliance's actions are directed towards cooperation in investment, cross-border trade of services, financial services, telecommunications, air transport and maritime transport. It also seeks to strengthen the integration of the stock exchanges of the member countries.

### ► Integrated Latin American Market -MILA

The Lima Stock Exchange - BVL (Peru), the Santiago Stock Exchange - BCS (Chile), the Colombia Stock Exchange - BVC (Colombia) and, since, 2014, the Mexican Stock Exchange - BMV (Mexico) together with the central securities registers of each country have integrated their variable income market (shares) by establishing the Integrated Latin American Market (MILA) with which it intends to diversify, expand and make more attractive the negotiation of this type of securities in the four country members, as much for local as for foreign investors.

This integration seeks to develop the capital markets of the member countries, in order to provide investors with a greater offer of securities and issuers with wider sources of financing. It is hoped that the unified market of these countries will become the leader in the region in a number of issuers.



### ► Movement of people

The free movement of people is one of the central pillars of the Pacific Alliance. This workgroup is focused on developing issues such as facilitating migratory transit, free movement of people, consular cooperation, student and labor cooperation, and the exchange of information on migration flows.

### ► Cooperation

The Pacific Alliance seeks to encourage cooperation on aspects that significantly impact the comprehensive development of the population of member countries and the strengthening of technology of their industries. To achieve this, the main purposes of the cooperation work group are to consolidate a platform of student and academic movement, the structure of a scientific research network on climate change, the identification and use of synergies to increase competitiveness of medium, small and micro business, the execution of physical interconnection projects, and the creation of a cooperation fund.

You can easily find more information in the EY's Pacific Alliance Business Guide at [ey.com/pe/EYPeruLibrary](https://ey.com/pe/EYPeruLibrary).

## Electrical Regional Market of the Andes

By means of the Decision No. 757 of the Andean Community of Nations, a special temporal regime for the regulation of international transactions on electricity was established between: (i) Peru and Ecuador, and (ii) Colombia and Ecuador.

According to this regime, transactions between Peru and Ecuador are subjected-among others- to the following main rules:

- Electricity exchanges will be subject to power and energy excess of the export country.
- Electricity exchanges will be made under the scope of bilateral supply contracts between the entities to be designated by Peru and Ecuador, up to the limit of the transmission capacity that may be determined by the electrical system operators.
- The importer must assume the applicable regulatory charges in its country.

For these purposes, Peru and Ecuador have compromised to adapt its internal regulations if it is necessary, authorize operative agreements between the electric system operators, and promote special projects and the exchange of technical information required for the operation of the system.

This special temporal regime will be in force until the regulations (operational, commercial and coordination) of Decision No. 816 - that creates the new Electrical Regional Market of the Andes (MAER) - will be published in the Official Gazette of Cartagena. Once such regulations will be published, the MAER will enter in force.



According to the latest news, it is expected that the interconnection can become effective as of 2021. As reported by the Secretary General of the Andean Community, the regulation necessary to make the electrical interconnection effective would be advanced by more than 90%. Likewise, it indicated that they would be working on tariff benefits and in the appropriate conditions to motivate and facilitate access to investment throughout the electricity distribution, generation and commercialization chain.

### **Stabilization fund for prices of oil's fuel derivatives**

The Stabilization Fund for Prices of Oil's Fuel Derivatives is an intangible fund created in 2004. It aims to soothe the high volatility of international oil prices, taking into consideration that Peru is a net oil importer. In so doing, the fund establishes maximum and minimum limits (price bands), in order not to let high volatility affect its consumers. It is important to mention that there are price bands for fuels such as:

1. Fuel Oil
2. Gasoline 84 and 90 RON
3. Gasohol 84 and 90 RON

Products mentioned in items 2 and 3 above are excluded from fund regulations to the extent that they are used in the exploration and production of natural resources, processing of hydrobiological resources, and cement manufacture.

The fund enables the government to compensate producers and importers, so that they do not charge consumers above of the maximum limit whenever oil prices surpass it.

Finally, it should be noted that as of April 28, 2020, the MINEM excluded liquefied petroleum gas and diesel from this list, in order to facilitate the transfer of the fall in international prices of these products to the benefit of consumers in the context of the current health crisis.

The payments made by the government ("compensation factor") are the result of comparing import parity pricing with the maximum limit. Therefore:

$$\text{CompF} = \text{IPP} - \text{MaxLim}$$

Likewise, when oil prices fall below the minimum limit, producers and importers charge consumers with the minimum limit, and make payments to the fund ("contribution factor"), which are equal to the difference between the minimum limit and import parity pricing. Thus:

$$\text{ContF} = \text{MinLim} - \text{IPP}$$

The General Bureau of Hydrocarbons (DGH, in Spanish) manages the fund, whilst the Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN, in Spanish) updates the price bands from time to time.





# Starting a business in Peru



## 1

# Requirements for foreign investors

Foreign investors shall be able to sign licenses and service contracts and therefore, carry out oil & gas exploration and production activities if they establish a subsidiary or a branch in Peru. Additionally, the investors shall appoint a representative, in the case of foreigners with a foreigner ID.

The most common types of legal entities used by foreign investors for doing business in Peru are a corporation (Sociedad Anónima - S.A.) and a limited-liability company (Sociedad Comercial de Responsabilidad Limitada - S.R.L.). However, besides the regular corporation, the Peruvian Corporation Law also establishes two different types of corporations. The closely held corporation (Sociedad Anónima Cerrada) and the open stock company (Sociedad Anónima Abierta).

In these cases, the legal, technical, economic and financial capacity for carrying out oil & gas exploration and production activities, evaluated by Perupetro, will lay in the parent company, who will be jointly and severally responsible for the capacity of their Peruvian branches and/or corporations. If there is no parent company, the qualification process must be followed by the applicant company.

Associative agreements, such as joint ventures, are also allowed.



Capital is divided into shares which may be freely transferred with just a private agreement, unless such transfers are restricted by the corporate bylaws. There are no minimum or maximum capital requirements, although issued capital must be fully subscribed and at least 25% thereof paid in upon incorporation. Nonetheless, Peruvian Financial Entities request a minimum deposit of approximately USD300 for the account opening (the amount may change depending on the Financial Entity). Capital may be supplied in cash or in kind. Value of non-monetary contributions must be reviewed and approved by a majority of the board of directors within 60 days of incorporation.

An S.A. must have a minimum of two individual or corporate shareholders, with no requirements as to their nationality or residence. The shareholders' general meeting is the supreme body of the S.A. and has power of decision on any subject, including the corporation dissolution, amendments to the bylaws and approval of capital increases or reductions, among other key corporate decisions.

An S.A. must have a minimum of three directors, with no maximum number provided by the law. There are no requirements as to their nationality or residence. Directors may not be shareholders, and they serve one to three-year renewable terms. Directors may be elected by cumulative voting, in which each share has as many votes as there are directors to be elected, and shareholders either accumulate their votes in favor of one candidate or distribute them among several. Elected directors must accept the position expressly and in writing. A quorum is half the board membership plus one. The board of directors has all the powers vested in its by law and the corporate by-laws.



\*The obligation to submit audited financial statements to the securities commission, stated for legal entities with annual sales or total assets equal or above 5,000 tax units (not listed in the Stock Exchange), was declared as unconstitutional by the Constitutional Court on April 4th, 2016. Such obligation was in force as from June 2011.

## 2

Establishing  
a Peruvian  
corporation

## Corporation

A corporation (*Sociedad Anónima - S.A.*) is composed of shareholders whose liability is limited to the value of their shares. The board of directors and one or more managers manage the S.A.

To incorporate an S.A., investors (i.e. the shareholders) shall sign a public deed of incorporation before a notary public and file it before the Peruvian Public Registry of Legal Entities.

To this purpose, first, investors shall grant powers to a representative in Peru to execute said instrument. Also, investors shall request to the Tax Authority (SUNAT) the registration of the company as taxpayer in order to obtain the tax identification number (Registro Único de Contribuyente - RUC). The bureaucratic and legal steps that an investor must complete to incorporate and register a standard S.A. normally take between 15-30 days once the necessary documents arrive to Peru.

The incorporation documents must include, at least, (a) the company's name; (b) business purpose and duration; (c) the company's domicile; (d) the name, nationality, marital status and residence of any individual shareholder and name, place of incorporation and address of any corporate shareholder (a minimum of two shareholders are required to set up an S.A.); and (e) the capital structure (the shares nominal value and the total number of shares), classes of shares and details of individual initial capital contributions (whether in cash or kind).

Shares shall only be issued once they have been subscribed and at least twenty-five percent of their nominal value has been paid.

## Limited Liability Company

The Limited Liability Company or S.R.L. (Peruvian acronym for Sociedad de Responsabilidad Limitada) is subject to registration procedures, reporting and accounting requirements similar to those for the S.A. The minimum number of partners is 2 and the maximum 20, whose liability is limited to their capital contributions. At least 25% of each participant's contribution to capital must be paid-in upon founding.

Although to incorporate a S.R.L no minimum capital is specified, entities of the national financial system request a minimum deposit of approximately USD300 for the account opening.

The S.R.L.'s capital is divided into and represented by participations which cannot be denominated shares and which are not freely negotiable certificates. Participations may be transferred to and individual or legal entity outside the company only after they have been offered through the management to other partners or the company itself, and they have declined to purchase the offered participations. Further restrictions on transfers may be set out in the bylaws.

The partner's general meeting shall entrust the company's management to one or more managers who are not required to be partners in the S.R.L. or Peruvian citizens. Decisions are determined by the majority of participations.

The main characteristics of the S.R.L. are:

- ▶ Limited liability. Partners are not personally liable for the corporation's liabilities.
- ▶ Centralized management. Partners general meeting and one or more managers (no board of directors is required).

- ▶ Transfer of interest. Transfer of partners interest to third parties is subject to approval by the existing partners and must be registered in the public register.
- ▶ Continuity. Death, illness, bankruptcy, retirement or resignation of any partner does not cause the dissolution of the entity.

## Closely Held Corporation

Provisions applicable to the S.A are applicable to the closely held corporation subject to certain specific provisions. A corporation can be classified as closely held if it does not have more than 20 shareholders and its shares are not listed in the Stock Exchange. The closely held corporation has certain features found in a limited-liability company (for example, limited liability of equity owners, absence of freely transferable equity shares and no requirement for a board of directors). Also, the Closely Held Corporation may not have board of directors.

## Open Stock Corporation

A corporation will be considered "open stock" when either (i) it has undertaken an initial public offering (IPO) or stock market launch to sell its stock to the public; (ii) it has more than 750 shareholders; (iii) at least 35% of its shares are held by at least 175 shareholders; (iv) it is incorporated as an open stock corporation; or (v) all the shareholders with voting rights agree unanimously to subject the company to the legal regime applicable to open stock corporations. This form of corporation is subject to the Peruvian Securities Market Law as well as to certain specific regulation on minority shareholders protection, public disclosure, among others.



## 3

Establishing  
a branch

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Procedures for organizing a branch in Peru are similar to the procedures applicable to organizing corporations or limited liability companies

Branches are another type of investment vehicle that foreign investors can establish for carrying out oil & gas exploration and production activities. The branch does not have legal independence or legal personality distinct from its parent company, except for tax purposes. Therefore, the branch will be regulated by the parent company's bylaws and its activities must be within the parent company's corporate purpose, and the parent company will be liable for its branch's activities.

In the case of branches, the capital assigned by the parent company does not have any limitation, but it shall be deposited or wire transferred in a Peruvian financial institution. However there is no obligation to credit the transfer for registry purposes. The parent company remains fully liable for the obligations assumed by the branch.

The branch operates through its legal permanent representatives with sufficient powers.

Procedures for organizing a branch in Peru are similar to the procedures applicable for organizing corporations or limited liability companies. It takes between 2 to 3 weeks to register a branch once the necessary documents, such as the certificate of existence of the parent company and the apostille documents, among others, have been submitted to the Peruvian notary public.

These documents include copies of the parent company's corporate charter and bylaws, minutes of the shareholders agreement to set up a branch in Peru, certification of the branch's address, assigned capital and line of business, notifications of the appointment and powers of a legal representative in Peru and a Peruvian consul's certification that the parent company is duly constituted in the country of origin and entitled to set up a branch in a foreign country. All these documents must be duly apostilled.



# 4

## Associative agreements

Associative agreements are another type of investment vehicle that allow different companies (and individuals) to participate and integrate into certain businesses or enterprises for reaching a common purpose. This type of investment vehicle is very common in the hydrocarbon sector because of the great risk involved in carrying out this type of activity. This makes sense due to the large amount of investment normally incurred in the exploration and production phase.

Unlike the other types of investment vehicles, an associative agreement does not create a corporation or legal entity different from its associates. Indeed, even though they have a common purpose in developing a business activity together; associative agreements do not create legal entities, therefore, each of the parties keep their legal personality and patrimonial independence.

According to the Peruvian Corporations Law, there are two different associative agreements: a) partnership agreements; and, b) consortium agreements. Although the joint venture agreement is not regulated by the Peruvian Corporations Law, it is commonly used by investors. Resources assigned to the aforementioned contracts will be considered as foreign investment provided these contracts grant foreign investors a participation in the production capacity, which does not qualify as a capital contribution. Also, these investment vehicles should correspond to contractual commercial transactions through which a foreign investor provides goods or services, obtaining a participation in the physical production, the global sales amount or the net profits of the company that receives the investment.

To carry out hydrocarbon activities, each of the parties should be qualified as a contractor by Perupetro. To have such qualification, they should be legally, technically, economically and financially qualified to engage in obligations, regulations and investments required for developing the hydrocarbon activity. One of the parties must be assigned as the operator responsible for conducting the activities; however, all of the parties will be jointly and severally liable before Perupetro for the assumed contractual obligation.

# Energy in Peru



Oil & Gas | Electricity | Trends





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Peruvian territory has a privileged location that offers a myriad of possibilities to all sorts of investment

### Energy in Peru

According to the Multiannual Sector Energy Plan - PESEM 2016-2021 of the Peruvian Ministry of Energy and Mines, Peru is a safe country for investments, since it offers not only great investment opportunities, but also has a legal framework and focused policies in respect of the environment and social inclusion.

Likewise, it is pointed out that energy activity not only represents one of the fundamental engines for the development of the national economy, but also represents an essential factor for the development of the population, the eradication of poverty, the increase of productivity and the economic competitiveness improves.

In that sense, Peru aspires to be recognized internationally as a country characterized by having a highly competitive energy sector, which promotes efficient development and satisfies the needs of the population, preserving the environment; respecting the culture of the Peruvian population and contributing significantly to the reduction of poverty.

To achieve the vision proposed by the PESEM 2016-2021, the Peruvian Government aims to increase the economic development of the country by increasing the competitiveness of the Peruvian energy sector, positioning itself

as an energy hub in South America, with a diversified energy matrix and counting on a sufficient energy supply for the demand of electric power in the country.

To this regard, the Camisea project and their surroundings assure to supply to even more gas-to-power projects, especially in the southern regions, and more project using clean source as wind and solar for generating electricity are developing. Also, Peru is seeking to integrate energy efficiency measures, and there is great concern for social and environmental issues, access to the use of energy and an increase in energy demand.

For this reason, the energy projects come along with the need to adopt preventive and corrective measures to reduce the impact on the environment of the operations, as well as continue to increase efforts to reduce greenhouse gas emissions generated by oil & gas, and electricity industries.

In addition, in the social and governmental sphere, the energy projects seek to ensure the social inclusion of energy for the entire population, contributing to human development and strengthening the governance and modernization of the energy sector, leading to a better interaction in the relations of the sector's stakeholders.

Finally, other issue raised by the energy projects is that Peru is in the sights of incorporating the main trends and future energy events to the national sector. Regarding the main changes that are presented by future events in the energy sector, the integration of energy and development of information technology is being considered; the use of WiTricity (wireless power energy); the capture, use and storage of carbon; the exploitation of hydrogen energy; mass migration to electric transport vehicles; and transformation of the supply chain with blockchain technology for oil & gas.



## Oil and gas

### National Energy Plan 2014-2025

On November 2014, the Ministry of Energy and Mines presented the National Energy Plan 2014-2025. This document forecasts the energy demand of the country until 2025. It also sets down how this demand could be satisfied through alternative and traditional energy sources.

The provision set forth in the energy planning for the country through 2025 expects an increase in the consumption of liquid hydrocarbons from 209,000 bpd to 285,000 bpd or, another scenario, from 212,000 bpd to 339,000 bpd, stressing the necessity of new infrastructure. Therefore, the optimization projects of the Talara and La Pampilla refineries will gain special importance in order to reach those expectations, as well as onshore and offshore exploration and exploitations projects.

Another relevant topic regarding demand of hydrocarbons is that of the massification of natural gas, which is already consolidating with the beginning of operations of multiple gas distribution through pipelines concessions, and more biddings on that matter. It is expected that the national demand for natural gas will rise from 1900 MMscfd to 2400 MMscfd by 2025, making it necessary to develop a national pipeline system for its supply.

In order to achieve this goal, minimum annual goals will be established, so that oil production can increase from the current 43 Mbpd to 153 Mbpd by 2025. It is worth mentioning that the optimization of the Talara and La Pampilla refineries and the biddings and direct negotiations on new Blocks will be crucial to complete this task.

In that regard, it is expected that in the next few years new biddings will be launched for 10 blocks that together add up to 60% of the country's production. Among the blocks that will be launched, the most productive is located in Talara (Piura Region) as same as other 7 blocks in the same location, 1 in Loreto and the last one in Ucayali. It is expected that first bidding process will be carried out before December 2021.

To the extent that new exploration projects achieve commercially viable exploitation operations, and pipeline infrastructure is developed to reduce transportation costs, natural gas and liquefied petroleum gas might increase their participation in the final consumption of energy in the country. Moreover, natural gas projects could establish themselves as the cornerstone to developing new gas-to-power projects, like those that are already operating in southern Lima and the Southern Power Node.

These documents include copies of the parent company's corporate charter and bylaws, minutes of the shareholders agreement to set up a branch in Peru, certification of the branch's address, assigned capital and line of business, notifications of the appointment and powers of a legal representative in Peru and a Peruvian consul's certification that the parent company is duly constituted in the country of origin and entitled to set up a branch in a foreign country. All these documents must be duly apostilled.

### **Perupetro's Strategic Plan 2019-2023**

Perupetro has engaged into the Strategic Plan 2019-2023, with the purpose of managing hydrocarbon resources efficiently, thereby promoting their sustainable exploitation to secure Peru's energy supply.

The purpose of the Plan is clear: to increase oil production to 100 mbpd, and that of natural gas to 1,500 MMCFD. In order to do so, Perupetro looks forward working on these strategic objectives:

- ▶ Maximizing oil and gas recovery in producing Blocks.
- ▶ Solving contingencies to increase value in recently discovered fields.
- ▶ Reposition of reserves by successful exploration projects.

The objectives of the Plan are also included as part of the Draft Oil & Gas Law Amendments, which we will expose in the following chapter 4 of this Guide. In summary, there are legal and management initiatives to enhance Perupetro's role as a more active participant not only during negotiations and subscription of the Contracts, but also during operations.



## 1

# Importance of Peru's oil & gas sector

The oil & gas sector in Peru has gone through a transformation, from an industry in decline to a major contributor to the economic growth in Peru.

Historically, Peru became an importer in the late 1980s and early 1990s. The combination of a state-dominated turn in Peru's energy sector in the 1960s (political interference such as policies that changed from government to government, refusal by various governments to grant new contracts, and fixed petroleum prices) and a lack of significant discoveries over the years, set Peru on a path of dwindling reserves. The implementation of such policies caused a decline in private investment.

Under these circumstances, the military regime decided to expropriate the International Petroleum Company and created a state-owned oil company named Petroperu, which controlled the sector for approximately 25

years. Nevertheless, their management did not result in an improvement of the sector as revenues, and reserves and production started declining. For this reason, the government in force through the 90's decided to restructure the company implementing a privatization process, ceasing Petroperu's downstream operations, and assigning Perupetro (newly created governmental agency) the commercial faculties to negotiate and subscribe license and service contracts with investors.

As a result, Peru's oil & gas sector became more competitive. From 1990 to 1997, investment in the sector increased from USD20 million to USD4.3 billion. Areas under operation hiked from 1 million to 23 million hectares in the same period. Prices were set by the market, not by the State.

This growth increased significantly in 2004-2005, when the major discoveries of natural gas reserves near the Camisea River in the Amazon began producing (which now is known as the "Camisea Project")<sup>1</sup>. From that moment on, Peru has entered into a takeoff stage, explained not only by the Camisea discovery and the geology of the country's potential, but also by the economic and political stability that it has achieved during the last years. This situation boosted the oil & gas sector, as well as the oil & gas discoveries in several locations of the country. The rising investment in Peru during the last years reflects such growth.

Due to smarter energy management, Peru began to diversify its energy use, reduce its dependence on imports, and position itself as an exporter of liquefied natural gas (LNG). Still, challenges remain, particularly as exploration and development activities begin to recover from a context of low prices.

<sup>1</sup> The Camisea Project was discovered in 1989



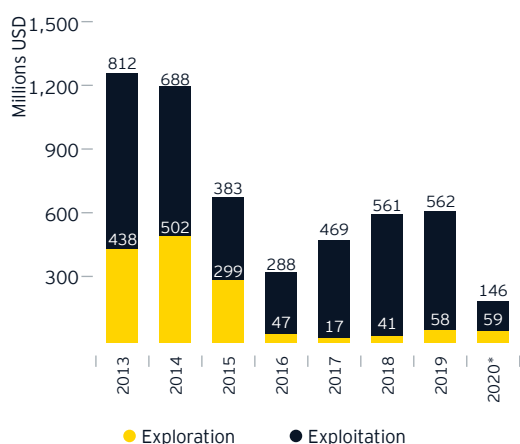
## Hydrocarbon Investment (2013-2020 exploration and exploitation phase in USD Millions)

	2013	2014	2015	2016	2017	2018	2019	2020*
Exploration	438.04	501.70	299.40	46.95	17.07	40.75	57.72	59.10
Exploitation	812.49	688.01	382.87	287.65	469.79	561.17	561.99	146.31
<b>Total</b>	<b>1,250.53</b>	<b>1,189.77</b>	<b>682.28</b>	<b>334.60</b>	<b>486.86</b>	<b>601.92</b>	<b>619.72</b>	<b>205.42</b>

\*The numbers shown for year 2020 include investments performed as of September 2020.

Source: Perupetro

## Oil exploration and exploitation investments evolution in USD Millions (2013-2020)



\*The numbers shown for year 2020 include instruments performed on September 2020.

Source: Perupetro

## Estimated investment by sector percentage (2020)

Sector	Participation %
Mining	23%
Communications	20%
Finance	18%
Energy	13%
Industry	12%
Oil & gas	3%
Other sectors	11%
<b>Total</b>	<b>100%</b>

Source: ProInversión

According to Peru's Private Investment Promotion Agency (ProInversión), 3% of the investments to be made in 2021 will be related to oil & gas activities.

Some of the investments that are going to take place in 2021 correspond to ongoing projects that may lead to new opportunities. Especially those related to the massification of natural gas.

In relation to upstream projects, the most important investments are focused in the northern and southeastern regions. The first ones show promising results in offshore blocks, while the latter ones are taking advantage of the infrastructure developed for the Camisea Project (gathering systems, infrastructure, among other facilities).

Midstream projects are still some of the most promising projects nowadays. The Integrated System of transport Gas - South Zone concession might have a new international bidding on the second half of 2021. The new Integrated System of transport Gas is made with the purpose of the Project is to transport natural gas and natural gas liquids in the regions of Cusco, Arequipa and Moquegua. In addition, Petroperu has stated that the modernization works of the Northern Peruvian Pipeline will continue to be carried out, so that by 2022 the pipeline is totally enhanced.

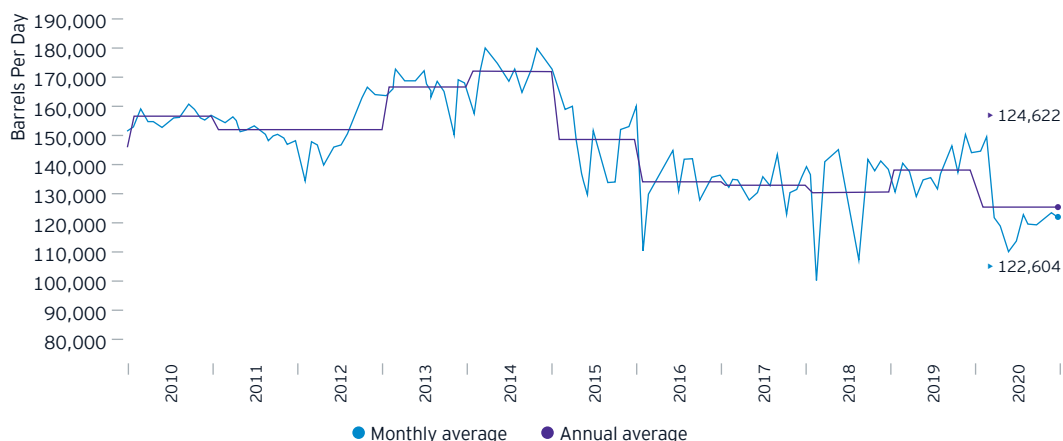
Downstream activities have also renewed investors' and Government's interest. Certainly, while the Talara Refinery Modernization Project shows a total advance of approximately 87%

(starting low sulfur fuels production by the end of 2020), and La Pampilla Refinery started producing low sulfur fuels on September 2018, several gas distribution concessions are already operating in the northern and southern regions of Peru. In this last regard, it is likely that ProInversión will award a new natural gas distribution concession in the second half of 2021, which will comprise at least seven regions (Apurímac, Ayacucho, Cusco, Huancavelica, Junín, Puno and Ucayali).

In order to encourage oil & gas investment both Government and Congress departed to work on a Draft Oil & Gas Law Amendment, in order to boost investment in exploration. To achieve such goal, as we will note in the following chapter, the Draft Oil & Gas Law Amendment includes provisions regarding extensions of the Contracts' terms, promotional royalty rates, recognition of investments from different Blocks, among others.



## Oil and liquid hydrocarbons average audited production\* (2010-2020)



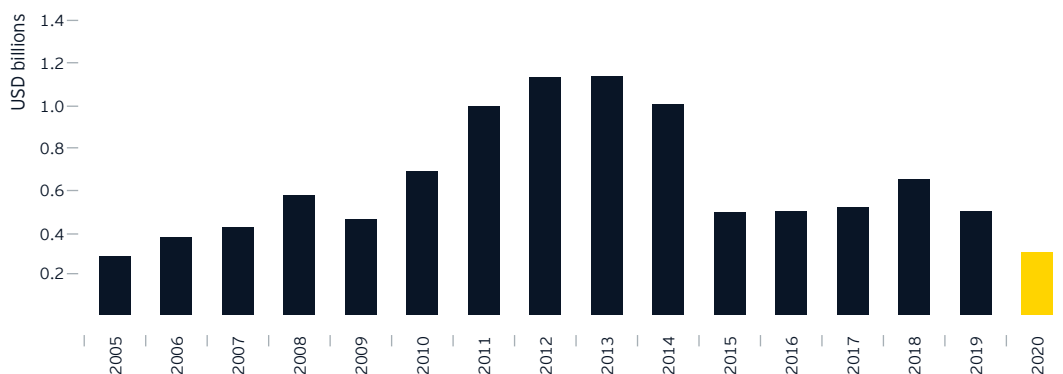
\*Includes petroleum and natural gas liquids.

Source: Ministry of Energy and Mines (MINEM)

## Oil & gas canon revenues (in USD Billions)

The oil & gas canon is a portion of the generated income obtained by the Government for the oil & gas exploitation. The beneficiaries of such revenues are the Local and Regional Governments, among other public entities located in the area exploited. The following chart shows the amount of revenues obtained and destined to oil & gas canon since 2005.

In June 2020, a draft amendment to Canon Law (Law No. 27506) was presented to the congress in which it was proposed to modify the current Canon distribution system, establishing a distribution of the 40% of the canon in favor of the peasant and natives communities.



Source: Perupetro

## Fiscal revenues (2013-2020 in USD Billions)

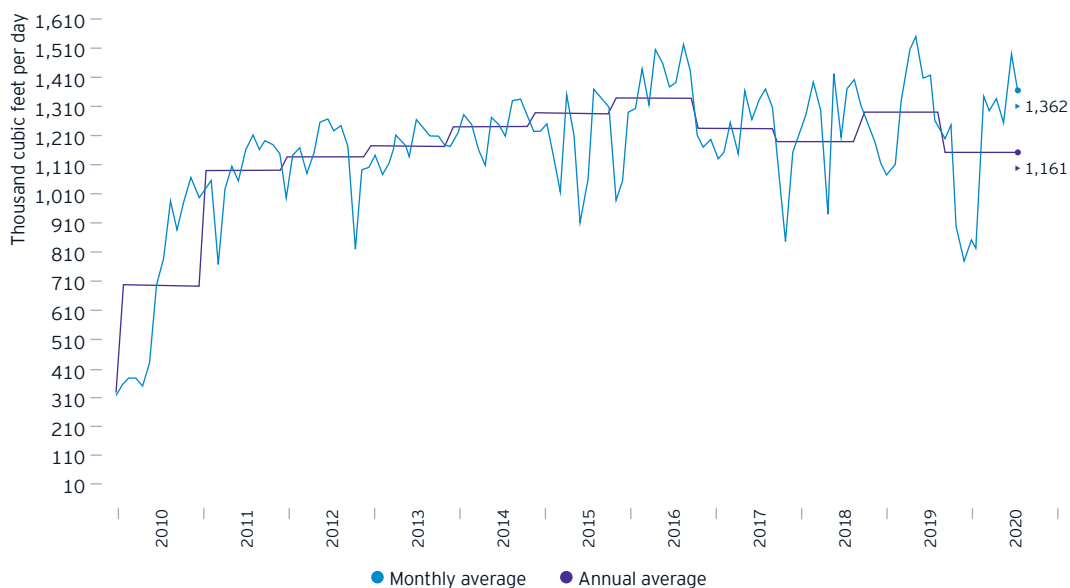
The oil & gas industry represents one of the main sources of fiscal revenues, and comes not only from the activities carried out in the Camisea Project (Blocks 56 and 88), but also from the activities executed in other blocks.

	2013	2014	2015	2016	2017	2018	2019	2020*
License contracts	1,932.66	1,608.19	728.98	627.39	792.06	1,030.35	772.76	432.44
Service contracts	88.27	85.01	39.96	32.86	36.78	59.71	58.91	25.39
<b>Total</b>	<b>2,020.93</b>	<b>1,693.21</b>	<b>768.94</b>	<b>660.25</b>	<b>828.84</b>	<b>1,090.07</b>	<b>831.68</b>	<b>457.83</b>

\*Estimated as of November, 2020

Source: Perupetro

## Average natural gas audited production (2010-2020)



Source: Ministry of Energy and Mines (MINEM)

## Transparency in oil & gas activities

EITI (Extractive Industries Transparency Initiative), a global coalition of governments, companies and civil society, is an international organization that is working together to improve openness and accountable management of revenues from natural resources.

By joining EITI, countries implement the EITI Standard to ensure full disclosure of taxes and other payments made by oil, gas and mining companies to governments, which are disclosed annually in the EITI report, so that citizens can be aware and informed of how much their governments receive from the exploitation of natural resources and also where such funds are destined.

Peru joined EITI as a full member in 2005, given the importance of oil & gas, and mining activities in the national income, and its meaningfulness in the Latin American and global production. Thus, Peru became the first Latin American country to join the initiative and show meaningful progress towards meeting the 2016 EITI Standard, ensuring transparency and stability of the rules related to the incomes from extractive industries.

# 2

## Hydrocarbon production and projects

The investment and work involved in the sector contributed to the recovery and the positive evolution of the hydrocarbon national production. An emblematic example of this growth is the Camisea project. This project was not only significant to the country, but it also contributed to putting Peru on the map of natural gas producers.

The growth of the hydrocarbon GDP for 2021 is estimated at 6.8% after a drop of 11.0% and a difficult 2020 year in which the oil production per day reached 40 thousands barrels.

This expected growth for 2021 is largely due to a rapid recovery in the sector attributed to the adaptation of companies to the new crisis environment and growth in demand by 2021.

This growth also will rely on the investment portfolio and Peru's geological potential, which already has the attention of investors interested in offshore Blocks and 10 blocks that represent 60% of Peru's production which government will bid in next years.



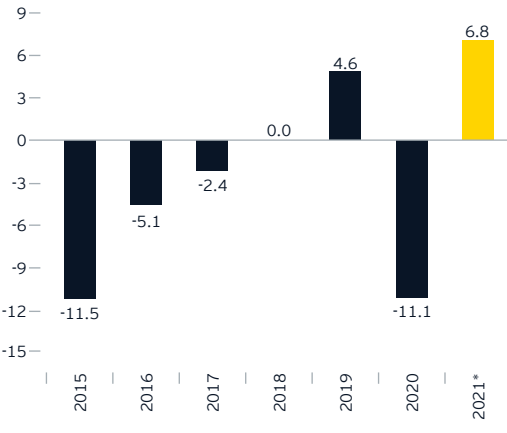
# Hydrocarbons audited production (2013-2020)

	2013	2014	2015	2016	2017	2018	2019	2020
Petroleum (MBLS)	22,956	25,296	21,173	14,773	15,900	17,837	19,339	9,520
NGL (MBLS)	38,187	37,751	33,360	34,671	33,134	31,198	31,659	17,475
Natural Gas (MMCF)	430,559	456,407	441,244	494,930	457,050	449,244	474,234	218,450

NGL: Natural Gas Liquids

Source: Perupetro

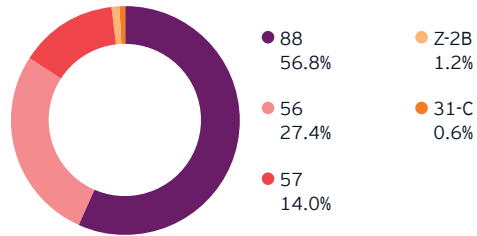
## Estimated GDP Hydrocarbon growth until 2021 (in percentage change)



\*Estimated as of December, 2020

Source: Central Reserva Bank of Peru (BCRP)

## Natural gas audited production by oil well (2020\*)



	Block	Accumulated (MMCF)*	%
Pluspetrol	88	13,034,528	56.8%
Pluspetrol	56	6,298,464	27.4%
Repsol	57	3,206,706	14.0%
Northern area	Z - 2B	269,757	1.2%
Aguaytía	31 - C	138,548	0.6%
<b>Total</b>		<b>22,948,003</b>	<b>100.0%</b>

\*As of September, 2020

Source: Perupetro



## Oil & Gas Projects in the mid and long-term

International oil prices have, over the last couple of years, stabilized around USD50. This situation has reflected in the Peruvian Oil & Gas sector by new investments in upstream, especially in off-shore Blocks.

In the current context, the price of oil fell around 33%, however, this has not stopped a USD205.42 million exploration and exploitation investment as of September 2020. To date, the price of oil has already shown signs of recovery.

Hereunder, we provide an outlook of investments related to upstream, midstream, and downstream segments, which will be carried out in the mid and long-term.

### Main investment projects

The hydrocarbon projects that could attract even more investment in the sector are the following projects:

- ▶ Distribution concessions of natural gas North and Center of Perú.
- ▶ 7 Regions Project.
- ▶ Integrated System of transport Gas - South Zone.
- ▶ North Oil Pipeline.
- ▶ Block 192 (NOC looking for partners).
- ▶ International Bids of Blocks I, II, V, VI, VII, X and XV.
- ▶ International Bids of Blocks Z2B, 8 and 201.
- ▶ Block 64 (NOC looking for partners).

Projects stated above show a clear interest by investors in upstream and midstream projects. Certainly, in addition to those projects which are underway, there are also at least seven Offshore Blocks Technical Evaluation Agreements and other two Onshore Blocks Technical Agreements in force.

In relation to other blocks, this year Tullow Oil drilled Block Z-38 under high technological standards, without any environmental problem. Although, to date Tullow did not have the expected results, they remain optimistic about the potential of the Peruvian sea as evidenced by the exploration of Block Z-64 in which it will make an estimated investment of USD22 million.

Now, regarding the blocks in which investment is expected in future years, there are Block 31-C which the expansion will recently extend for 10 years for the exploitation contract that includes the execution of an additional program exploratory and Block 192, located in the Loreto region, which has a production capacity of 12,000 BPD due to the fact that the operating company's exploitation contract expired on March 2020 and was extended until the first quarter of 2021. Thus, once the extension of the contract has concluded, the operator of the Block will become Perupetro, which is already looking for a partner for that activity.

On the same sense, at the beginning of the year, Petrolal had announced a budget of USD99 million for drilling 4 production wells on Block 95 and is expected to triple its production to reach an annual ratio of 20,000 BPD; however, after the sanitary crisis generated by COVID-19 and its effect on the international price of oil, finally on January 2021, Petrolal and Perupetro reached an agreement that would

allow it to resume production activities in Block 95 with a capital injection of USD18 million, an estimated production ratio of 10,000 BDP or higher for this 2020 and a goal of 20,000 BDP for the year 2021.

Regarding the investment in offshore exploration projects, in the first months of 2020 an increase of more than 18.1% was expected in the Peruvian oil industry, since oil companies had shown considerable interest in the offshore blocks offered by Peru.

However, even though the growth figure is no longer what was expected for 2020 due to the sanitary crisis, it is necessary to highlight that the interest of investors in offshore projects in Peru has not been lost, since July 2020 the exploration and exploitation contracts for blocks Z-67 and Z-68 were approved to be carried out by Tullow. These blocks are located in the Ancash region and an investment of more than USD2.47 billion is expected in the exploration and development phases.

In relation to midstream projects, the Petroperu (National Oil Company) is not only undergoing works to keep the Northern Peruvian Pipeline operating, but has also stated that they will continue with the pipeline modernization works that have been developing since 2018 with an approximate investment of USD180 million. This project is crucial, due to the importance of the pipeline for the Northeast Blocks, one of the largest producers in the country.

In this regard, the Northern Peru Pipeline had to stop its operations in the beginning of the sanitary crisis. However, in January 2021 its activities resumed under the required sanitary protocols against COVID-19. This greatly benefited the northern blocks, reaffirming investor confidence in Peru.

On the other hand, growth of the southern Regions' economy might push Government to hasten the reformulation of the Southern Peruvian Pipeline Project's international bid. Such project could have a value of over USD200 million.

The importance of the abovementioned project resides not only in the undeniable growth of the economies of the southern Regions (boosted by large mining operations), but also in the eventual export opportunities available thereafter. For instance, it should be noted that Bolivian companies are evaluating possible gas pipelines through the southern Regions up to Ilo's port, in Moquegua.

Investments in upstream will continue, while investments in midstream infrastructure await crucial decisions to be unfold. Notwithstanding, downstream projects will also be rampant in the coming years.

The main downstream project is the Modernization of Talara's Refinery, with a budget of USD5 billion, and 87% advancement as of the first half of 2020. Once completed, refining capacity will increase from 65,000 bdp to 95,000 bpd. Plus, the refinery will be able to produce low sulfur fuels, as required by Peruvian regulations.

On the other hand, the Government is looking to consolidate plan to make the use of natural gas massive.

Since natural gas distribution concessions in the northern and southern Regions of the country have shown promising results in their first year of operations, with over 20,000 connections that include residential and industrial customers, the Government will award another gas distribution concession in the first quarter



of 2021, will have impact in seven southern Regions (Apurimac, Ayacucho, Huancavelica, Junin, Cusco, Puno, and Ucayali).

The Integrated System of transport Gas - South Zone concession (before "Southern Peruvian Gas Pipeline"), is a Co-financed Project to design, finance, built, operate, maintain and transfer back the project to the Peruvian State once the term of the concession is over.

It's expected that the bidding of this project will be carry out on the second half of 2021. One of the main objectives of the Integrated System of transport Gas is provide supply of NG and NGL for users in the main cities of southern Peru: Cusco, Apurimac, Puno, Arequipa, Moquegua and Tacna, and the "Power Node of South Peru in Mollendo and Ilo (Thermoelectric Power Plants of Puerto Bravo and Ilo, respectively).



# 3

## Diversifying the energy matrix: Natural gas

The development of natural gas and condensates from the Camisea project have created a new strategic option for the energy sector in Peru.

Such development has contributed to increase the reserves and hydrocarbon production and, therefore, the supply and demand patterns of such an energetic matrix.

Before the arrival of natural gas, the energy matrix of Peru depended on liquid fuels - primarily imported diesel, coal, wood, and other traditional energetics. Nowadays, the consumption of liquid fuels has been reduced, in order to introduce different energy sources, such as LPG (Liquefied Petroleum Gas) and VNG (Vehicle Natural Gas). In the future, Peru intends to generate a matrix based not only on petroleum, but equally on renewable energy and natural gas.

The global trend, in terms of fuel oil is to replace oil with other sources that are cleaner and cheaper. So by the time Camisea's potential is fully developed (Blocks 57, 58, among others), Peru will be energetically integrated into this trend.

### Evolution of the main natural gas data in peru (2015-2019)

Year	Proven Reserves	Audit production	Reserve Autonomy Index	Transportation Network	Transport Volume	Domestic use
	GPC	MMSCFD	Years	Km	MMSCFD	MMSCFD
2015	14,086	1,209	28	1,458	1,113	644
2016	16,091	1,355	35	1,567	1,270	683
2017	12,875	1,252	29	1,567	1,165	626
2018	10,604	1,231	22	1,567	1,140	647
2019	ND	1,299	ND	1,567	1,207	676

Trend

(2015-2019)



Year	Total users	Natural Vehicular Gas			Price of natural gas supply	
	(Thousands)	Vehicles (Thousands)	Service Stations	Domestic use (Thousands M3)	Electric Generation (USD/mmbtu)	Other Users (USD/mmbtu)
2015	382	220	270	723,302	1,900	3,300
2016	478	237	284	729,846	1,700	3,000
2017	628	255	307	730,504	1,600	2,800
2018	848	274	327	741,450	1,800	3,300
2019	1,114	296	333	756,717	1,900	3,500

Trend

(2015-2019)



Source: Perupetro

## Camisea Project

Camisea's estimated hydrocarbon reserves are around 13 million cubic feet of natural gas and 660 million liquid barrels. It is estimated that these reserves will continue reducing the cost of electricity and national fuel in the mid-term.

### Natural gas: the fuel of the future

Camisea has contributed greatly to Peru's development by providing a steady and increasing flow of a clean energy source. However, Camisea's gas is far from just being a hydrocarbon used directly in the industrial and housing sectors, as well as for exports: arguably, its biggest contribution is the provision of the necessary raw material to generate electricity.

Camisea's gas impact on savings in power generation were estimated around USD22.4 billion during its first 10 years (the project began operating in 2004). Without a doubt, it has dramatically changed Peru's energy matrix, and because of this, it has paved the way for some of the most ambitious energy and infrastructure projects for the mid-term.

### Thermoelectric plants projects

Due to the development of the Camisea project, and the increasing availability of natural gas through the pipeline that connects such fields to the coast, many projects regarding thermoelectric power plants have started operating in recent years.

Certainly, the gas pipeline has allowed thermoelectric power plants to be constructed and operated few kilometers to the south of Lima, in Chilca. Fenix Power, Engie, Kallpa, and Termochilca operate thermoelectric power plants in Chilca, generating around 16,000,000 MWh of a great total of

48,587,388 MWh generated in the country during 2016. Some of these companies have currently developed extensions of their power plants in Chilca.

Nonetheless, the southern power node has already received investments to develop thermoelectric power plants. Engie is running some of those plants, and some other investors might find it attractive for new projects in the node and its surroundings, especially when the southern Peruvian pipeline starts operating.

Camisea's deposits are large enough to satisfy the actual energy needs of the country for more than a decade. This is why it is one of the most important energy sources of the country.

The Camisea zone is located approximately 500 kilometers to the southeast of the city of Lima, the capital of Peru, on the eastern slopes of the Andes in the region of Cusco. It is located in the Bajo Urubamba valley, one of the areas with the most natural biological diversity in the world.

The major part of the reserves are located in two main gas fields, San Martín and Cashiriari. Blocks 88 and 56 are known as the Blocks of the Camisea project.

Three main actors are involved in the management of the natural gas industry in the Camisea project, at different stages. The production stage was granted by the government to the Consortium integrated by Pluspetrol (operator) - Hunt Oil - SK Innovation - Repsol Exploración Perú - Sonatrach Peru Corporation - Tecpetrol. The transportation and distribution stages have been granted to Transportadora de Gas del Perú S.A and to Gas Natural de Lima y Callao S.A (Calidda), respectively.



Camisea's gas is also currently available in Ica, as well as some southern and northern regions of the country, through distribution concessions. In that regard, the region of Piura might also benefit from the supply of liquefied natural gas coming from Pampa Melchorita's plant in 2018, while the central regions of the country await ProInversión's bidding in the short term. As can be noted, natural gas is on its way to becoming the standard energy source for Peruvian society.

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In the future, Peru intends to generate a matrix based not only on petroleum, but equally on renewable energy and natural gas

### Natural Gas Transportation Infrastructure (2019)

Origin	Destiny	Company	Lenght (Km)	Cumulated Capacity (MMSCFD)
TGP				
Camisea	City Gate Lurín	Main pipeline	729	-
Pampa Mechorita	Chilca	Coast Loop I	105	-
Chilca	City Gate Lurín	Coast Loop II	31	920
Camisea-Lima LP 127		Kamani Compressor	ND	-
Camisea-Lima LP 277	Ayacucho	Derivation pipeline	18	-
Chiquintirca	Pampa Melchorita	LNG	408	620
Other pipelines				
La Casita Station	Olimpic Station	Olimpic Perú Inc.	33	11
Talara Basin	Malacas Thermoelectric	Petrochina	ND	ND
Pampa Mechorita	Pampa Mechorita	Perú LNG	1	ND
Curimaná	Padre Abad and Pucallpa	Aguaytía Energy	174	55
Humay	Pisco	Pluspetrol	40	35
Pariñas	Peña Negra (Talara)	BPZ	27	ND
Total			1,567	

Sources: TGP / Osinergmin / Perú LNG / Promigas



# **Natural Gas users up to 2019** **(Total users: 1,113,983)**



#	<b>North Region</b>	<b>Operational start-up: 2017</b> Executed Investments: USD135MM
μ	<b>Lima and Callao</b>	<b>Operational start-up: 2004</b> Executed Investment: USD1.080MM
π	<b>Ica</b>	<b>Operational start-up: 2014</b> Executed Investment: USD381MM
ψ	<b>South West</b>	<b>Operational start up: 2017</b> Executed Investment: USD40MM
τ	<b>Center and South</b>	<b>Operational start up: to be granted by Proinversion in 2021</b> Expected Investment: USD200MM Potential Users: 113,535 (8 years)

Sources: Promigas / EY

# **4** **Growth potential**

Peru has 18 sedimentary basins with hydrocarbon exploration potential. However, only three of them have been exploited, which shows that an important part of the national territory with hydrocarbon potential has not been explored yet, especially in the jungle and in the coast.

According to Perupetro, Peru is one of the few countries in the world whose territory is relatively underdeveloped, which means that it has an almost intact hydrocarbon potential.

Ten basins are located in the continental zone of Peru (in the coast and in the south and north jungle), and the rest are located offshore.

The basins located in Talara, Marañon and Ucajali are the best known. Further studies have been conducted at these basins, especially in the Talara basin, that has been explored and has had production fields since the 19th century. On the other hand, the Marañon basin (northern jungle) already has production oil wells and new structures have been discovered, but still this basin is only partially exploited.

In the same sense, even though the Ucayali basin (northern and central) has not been explored yet, in the south zone are the Camisea fields, which are the principal natural gas deposits of Peru.

Regarding the other 15 basins whose potential have not been explored in detail, we have the Santiago and Huallaga basins, where abundant crude samples have been found, inferring the existence of active oil systems. We also have the Madre de Dios basin, where preliminary studies confirm the presence of gas deposits.

A case that may bring attention is the Titicaca basin, which produced light oil in very antique fields at the beginning of the 20th century. In the case of natural gas, in 2014 the Chinese company CNPC acquired Petrobras' assets in the country, comprising an investment of USD1.4 billion in exploration activities in Block 58, near Camisea fields. It was estimated at up to 8 trillion cubic feet of natural gas. Recently, they announced that Block 58 exploratory efforts were successful, granting almost 4 TCF in reserves.

### **Petroperu (National Oil Company)**

Camisea's estimated hydrocarbon reserves are around 13 million cubic feet of natural gas and 660 million liquid barrels. It is estimated that these reserves will reduce the cost of electricity and national fuel.

Even though Petroperu, a state-owned company of private law, initially was not actively involved in exploration and exploitation of hydrocarbon activities, which occurred as a consequence of the privatization process during the 90's; nowadays it is re-assuming its participation in the hydrocarbon production scenario.

“

**Oil & gas companies must fulfill all the requirements needed to develop exploration and production activities under a license or service contract**

In 2006, Peruvian Congress passed Law No. 28840, which allowed Petroperu to return to participate in all stages of hydrocarbon activities, especially in exploration and production. Thus, it could be a competitor in every activity of the industry.

The first step into reinserting Petroperu into upstream activities was taken in October 2014, when Petroperu associated with a private company planning on exploring and producing hydrocarbons in Block 64. Then the acquisition of significant interest in Block 192's License Contract was completed on 2015. Block 192 was the highest producing block in the country during the last decade, and was the ideal opportunity for Petroperu to return to upstream operations.

On the second half of 2020 was approved the extension of the exploitation contract with Frontera Energy (main operator of the Block 192) until the first quarter of 2021, thus Petroperu has started the selecting process for a strategic partner for operate the Block 192.



Aside from Petroperu's return to upstream activities, it should be mentioned that in 2016 the aforementioned NOC was authorized by Congress to adopt all the necessary measures to assure the correct engineering, procurement and construction of the new assets that will let Talara's Refinery to be able to produce LPG, oils and 50 ppm sulfur diesel. Not only does this project make the Peruvian northern region more dynamic, allowing refining of heavy oil from Jungle's Blocks, but it also assures the total nationwide supply through Petroperu's fuel distribution grid.

### **Petroperu's reorganization and its participation in social projects**

On December 31, 2016, by means of Legislative Decree No. 1292, the government declared the necessity to modernize and reorganize Petroperu.

For this purpose, it authorized Petroperu to modify totally or partially its internal structure in order to improve the efficiency of its operation, increase its operational capacity and to modify its services to reach an adequate standard of performance, considering the

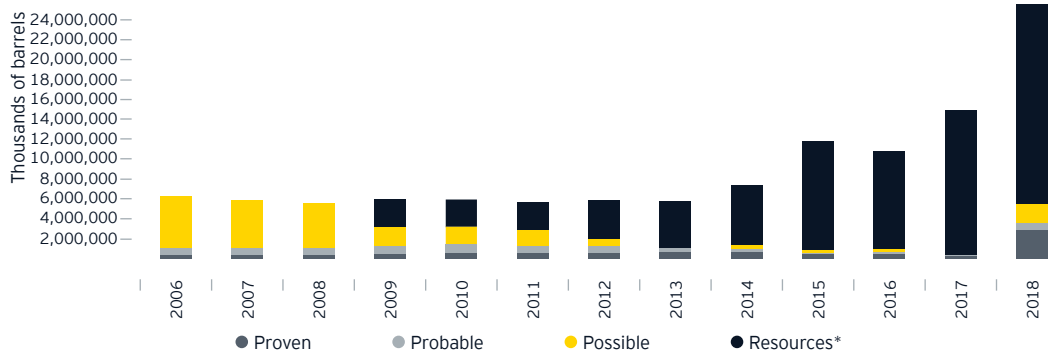
necessity to protect the environment and the nearby communities.

Also, Petroperu has been authorized to contract third parties by means of joint venture, services contracts, among other forms, regarding the management and operation of its current projects and the future ones. By this, the government has noted that despite the authorizations given to Petroperu, it is still a public entity.

In the same Legislative Decree, Petroperu has been authorized to participate as a partner and also as an operator (if agreed) in the exploration and the exploitation of hydrocarbon activities according to the terms and conditions included in the correspondent contract. For these purposes, the only condition that it must fulfill is not making any disbursement while developing exploration activities. It is worth mentioning that due to the said Legislative Decree No. 1292, Petroperu is now authorized to organize and carry social responsibility activities through the Regime called Construction work for Taxes, according to Law No. 29230.



## Oil reserves (2006-2018)

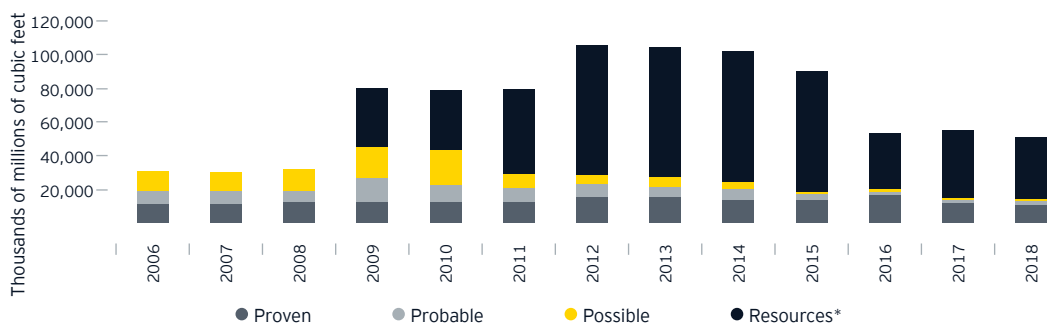


\*Includes contingent and prospective resources. Data updated up to December, 2018.

The resources come principally from a reclassification of possible reserves to resources as of 2009

Source: Ministry of Energy and Mines (MINEM)

## Natural gas reserves (2006-2018)

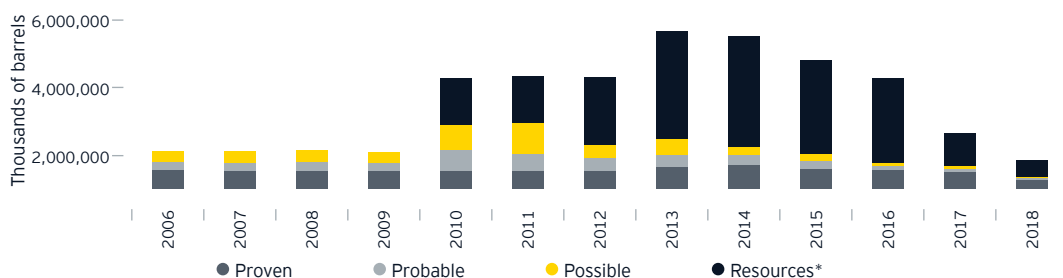


\*Includes contingent and prospective resources. Data updated up to December, 2018.

The resources come principally from a reclassification of possible reserves to resources as of 2009

Source: Ministry of Energy and Mine (MINEM)

## Natural gas liquids reserves (2006-2018)



\*Includes contingent and prospective resources. Data updated up to December, 2018.

The resources come principally from a reclassification of possible reserves to resources as of 2009

Source: Ministry of Energy and Mines (MINEM)

# Peru's Block map











## Exploitation and exploration contracts (2020\*)

	Inforce	Investment (USD millions)*
Exploitation	26	482
Exploration	13	58
<b>Total</b>	<b>39</b>	<b>540</b>

\*Investment made up to September, 2020

Exploitation contracts						
Zone	Operator	Block	Basin	Subscription date	Block area / ha	Effective work area / ha
North Rainforest	Frontera Energy Peru	192	Marañon	30-Aug-15	512,347.241	2,037.00
	Pluspetrol Norte	8	Marañon	20-May-94	182,348.210	541.00
	Geopark Peru S.A.	64	Marañon	07-Dec-95	761,501.001	66.00
	Perenco	67	Marañon	13-Dec-95	101,931.686	378.00
	Petrotal	95	Marañon	07Abr-05	345,281.667	7,509.00
	Perenco	39	Marañon	09-Sep-99	79,164.497	119.00
Central Rainforest	Aguaytia	31-C	Ucayali	30-Mar-94	16,630.000	18.00
	Cepsa	131	Ucayali	21-Nov-07	15,483.733	90.00
South Rainforest	Pluspetrol	56	Ucayali	07-Set-04	58,500.000	64.00
	Pluspetrol	88	Ucayali	09-Dec-00	82,803.521	129.00
	Repsol	57	Ucayali	27-Jan-04	28,028.750	12.00
	CNPC	58	Ucayali	12-Jul-05	340,133.717	65.00
North-West	Graña y Montero Petrolera	I	Talara	27-Dec-91	6,943.250	339.00
	Petrolera Monterrico	II	Talara	05-Jan-96	7,691.420	136.00
	Graña y Montero Petrolera	III	Talara	31-Mar-15	35,799.305	227.00
		IV	Talara	31-Mar-15	29,521.990	181.00
		V	Talara	08-Oct-93	9,026.032	42.00
	SAPET	VI/VII	Talara	01-May-93	32,434.113	2,513.00
	UNIPETRO ABC	IX	Talara	16-Jun-15	2,754.133	52.00
	CNPC	X	Talara	20-May-94	46,952.342	2,252.00

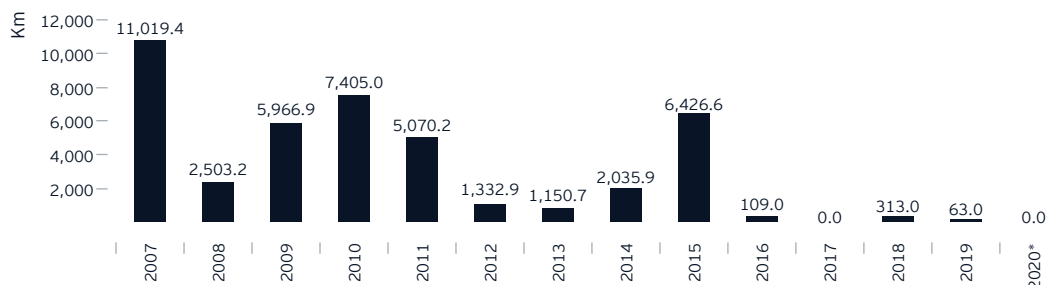
Exploitation contracts						
Zone	Operator	Block	Basin	Subscription date	Block area / ha	Effective work area / ha
North-West	Olympic	XIII	Sechura	30-May-96	263,357.845	29.00
	Petrolera Monterrico	XV	Talara	26-May-98	9,498.904	10.00
		XX	Talara	19-Jan-06	6,124.207	131.00
Continental Shelf	Savia	Z-2B	Talara	16-Nov-93	130,315.659	318.00
	Frontera Energy Off Shore	Z-1	Tumbes, Talara	30-Nov-01	178,961.384	30,077.00
	Savia	Z-6	Talara, Sechura	20-Mar-02	528,116.614	15,552.00

Exploration contracts						
Zone	Operator	Block	Basin	Subscription date	Block area / ha	Effective work area / ha
Central Rainforest	REPSOL	103	Marañón, Huallaga	09-Aug-04	870,896.168	120.00
	Petrolifera Petroleum Peru	107	Ucayali	01-Sep-05	252,232.329	114.00
North-West	Gold Oil Peru	XXI	Sechura	04-May-06	240,755.063	44.00
	Upland oil & gas	XXIII	Talara	21-Nov-07	93,198.956	543.00
	Petro Bayovar	XXVII	Sechura	16-Apr-09	49,821.139	144.00
	Ricoil S.A.	XXIX	Lancones	18-Sep-15	303,802.343	000.00
Continental Shelf	KEI Peru	Z-38	Tumbes, Talara	12-Apr-17	487,545.511	112,555.00
	Anadarko	Z-61	Trujillo	09-Oct-17	680,519.430	170.00
	Anadarko	Z-62	Trujillo	09-Oct-17	656,356.153	154.00
	Anadarko	Z-63	Trujillo	09-Oct-17	548,049.976	129.00
		Z-64	Tumbes, Talara	03-Mar-19	54,075.191	65.00
	TULLOW	Z-67	Trujillo, Lima	17-jul-2020	588,373.542	-
		Z-68	Lima, Salaverry	17-jul-2020	600,181.068	-

\*Investment made up to September, 2020

## 2D and 3D seismic

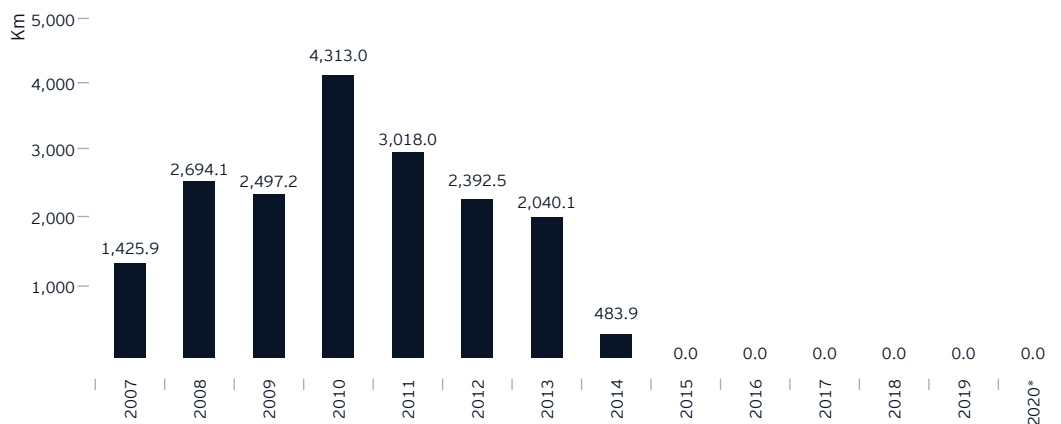
### Registered 2D seismic, (2007-2020)



\*As of September, 2020

Source: Perupetro

### Registered 3D seismic, (2007-2020)



\*As of September, 2020

Source: Perupetro

In 2019, Perupetro entered into a Multi-Client Agreement with Robertson GeoSpec International Limited, a subsidiary of CGG, who will be in charge of reprocessing and updating the technical information of the offshore basins of Peru.

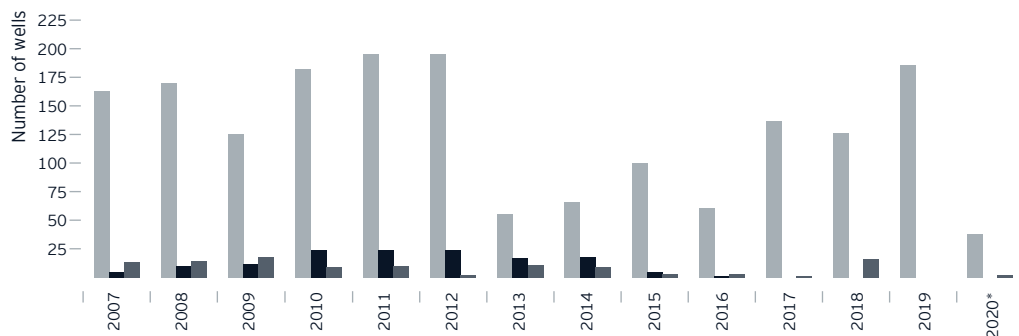
This agreement includes two large-scale projects in six offshore basins: "Reprocessing of 15,000 km of 2D seismic in the Tumbes, Talara,

Trujillo, Salaverry, Lima and Pisco basins" and the improvement of data "TerraCube suite 2D/3D ", Which involve around 50,000km of 2D seismic and 20,000km<sup>2</sup> of 3D seismic.

These projects will help to minimize risks and uncertainties for the evaluation of the hydrocarbon potential in the marine base and increase the interest of investors in hydrocarbon exploration and/or exploitation projects.

## Drilling activities

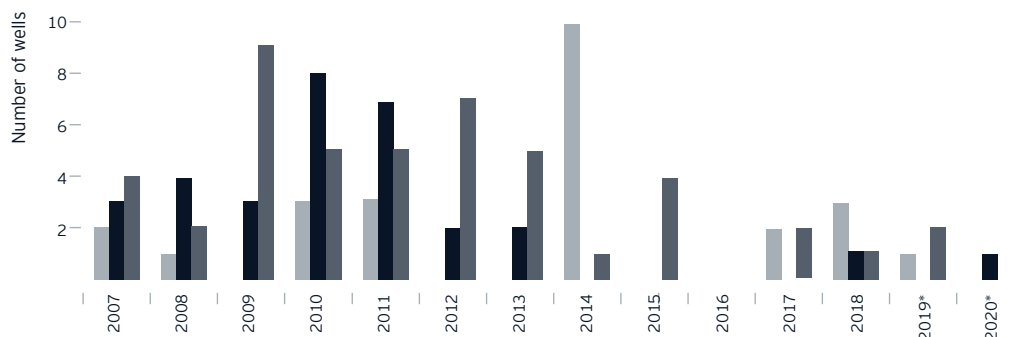
### Development drilling (2007-2020)



\*As of September, 2020

Source: Perupetro

### Exploratory drilling (2007-2020)



\*As of September, 2020

Source: Perupetro

## Hydrocarbon's Government take

### Hydrocarbons Tax Revenues (in S/ Millions)

	2013	2014	2015	2016	2017	2018	2019	2020
Corporate Tax*	1,908	1,903	913	394	723	1,022	898	577
VAT	1,520	1,512	921	727	851	1,291	1,228	736
<b>Total</b>	<b>3,428</b>	<b>3,415</b>	<b>1,835</b>	<b>1,121</b>	<b>1,575</b>	<b>2,314</b>	<b>2,126</b>	<b>1,313</b>

\*Includes down-payment

Source: Perupetro

### Hydrocarbons Royalties (in USD)

	2013	2014	2015	2016	2017	2018	2019	2020**
Natural Gas*	1,365,064	1,122,837	556,701	535,391	653,012	802,184	572,874	75,685
Oil	571,641	507,264	172,696	93,321	139,997	228,167	199,889	356,755
<b>Total</b>	<b>1,936,705</b>	<b>1,630,101</b>	<b>729,397</b>	<b>628,712</b>	<b>793,009</b>	<b>1,030,351</b>	<b>772,763</b>	<b>432,440</b>

\*Includes condensales and natural gas liquids

\*\*As of November, 2020

Source: Perupetro





### ► OSINERGMIN Contribution

Oil & gas companies that import or produce fuels, including liquefied petroleum gases and natural gas, or carry out transportation and distribution activities should pay this contribution to the Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN). The rate of this contribution is 0.36 % for 2020, 0.35 % for 2021 and 0.35% for 2022 (for import or production activities) and 0.60% for 2020, 0.57% for 2021 and 0.56% for 2022 (for transport and distribution activities), applied on their monthly billing after deducting VAT.

### ► OEFA Contribution

Oil & gas companies that import or produce fuel, including liquefied petroleum gases, or carryout transport and distribution activities should pay this contribution to the Enviromental Audit and Evaluation Agency (OEFA). The rate of this contribution for years 2020-2022 is 0.09% (for import or production activities) and 0.11% for 2020-2021 and 0.10% for 2022 (for transport and distribution activities) applied on their monthly billing after deducting VAT.

### Total revenues 2016-2020 (in S/ Millions)

	2016	2017	2018	2019	2020
OEFA	28.8	25.8	29.8	29.9	36.2
OSINERGMIN	111.1	124.7	176.3	147.5	115.7
<b>Total</b>	<b>139.9</b>	<b>150.6</b>	<b>206.1</b>	<b>177.3</b>	<b>151.9</b>

B

## Electricity

1

Importance  
of Peru's  
electric  
power sector

## Evolution of the Peruvian Regulation of the electrical market



The Peruvian electricity history demonstrates that since the first-time electricity was introduced in Peru around 1886, it has dramatically changed to reach the development level that this sector has nowadays.

In 1955, during the government of Manuel Odria, the first regulatory framework in the history of the Peruvian electricity sector was published by Law No. 12378. However, this regulation wasn't limited to establish the rules to be observed for the exercise of the electric industry in the country, it also had as objectives the promotion of private investment in the electricity industry, as well as the guidelines for granting concessions, permits and licenses, necessary for the development of the industry.

It should be noted that, since 1956, the Peruvian State began to supervise the operations of the electricity sector through the Ministry of Development. But, as we will also see later on, starting in 1996, this work was entrusted to OSINERGMIN, a public institution in charge of regulating and supervising companies in the electricity, hydrocarbon and mining sectors.

In the 1960s, the expansion of electricity networks in the regions increased, mainly due to improvements in the regulatory framework of the sector. Thus, in 1962, Law No. 13979 was enacted, through which it was authorized to organize the state railways, the Lima potable water service and the national electricity service as autonomous companies. Likewise, the National Electric Services (SEN) was created with the purpose of exploiting the numerous power plants that depended on the Peruvian State, in such a way that electric service could be supplied to those places where neither private investment nor the municipalities had arrived.

Before 1970, the electrical industry in Peru was developed by the national and foreign private sector, managing to supply 15% of the population that lived, mainly, in the large cities of the country. However, despite the fact that the economic model of the previous two decades generated good macroeconomic results, it was not possible to implement policies that generate redistributive effects, worsening the urban-rural income gap.

In the seventies, the electricity sector regulation changed radically as the military government of the Peruvian president Juan Velazco Alvarado entered into force and was continued by the government of the military government of the Peruvian president Francisco Morales Bermudez.

In 1972, the Government managed to nationalize the electrical industry through Law No. 19521 and created the National Electricity Corporation - Electroperu. As of this, Electroperu took all the electricity sector chain activities (generation, transmission and distribution), becoming the new owner of the total assets that were previously used and operated by the cluster called "Empresas Electricas Asociadas", but now under the name Electrolima S.A.

Years later, the non-military Government of Fernando Belaunde Terry entered into force. During his regime, in 1982, the Electricity General Law was enacted by Law No. 23406. Through this Law, the electricity public service remained being served by the National Electricity Corporation, this is, ElectroPeru, and through its regional affiliates.



Under this new scheme, ten regional affiliates were created in order to distribute electricity, aiming to cover the supply needs in the Peruvian territory. Electroperu was the main corporation, being considered as the holding corporation and the one in charge of the hydropower plants of Mantaro, Pato Canyon, Carhuaquero and Carhua; and also, of the north-center transmission grids that were not assigned to the regional affiliates.

Despite the efforts made to enhance the regulation of the electricity sector, in 1990, only 45% of the Peruvian population had access to electricity. In that moment, the electricity supply only covered 74% of the demand, and the distribution losses were equivalent to almost 20% of the electricity.

Later, in 1991, the Government of Alberto Fujimori initiated the restructuration of the regulatory framework of the electricity sector due to the big social and political crisis, and the low scope of the electricity services and infrastructure.

In this regard, as the economic and customs framework had to be modernized, other sectors included modifications to its current regimes in order to guarantee better investment conditions and to promote corporative competitiveness. Under this new context, many national corporations were privatized. This was enforced by means of Legislative Decrees No. 662 and No. 674.

As a result, the electric sector was reformed during the 90s. At this time, the sector was oriented to enhance the supply of electricity through an open market to international commerce. Under this new context, Law No. 25844, Law of Electrical

Concessions was enacted in order to attract new private investment to activities that were not successfully being assured for the rendering of electrical services and to end the monopoly that covered the sector.

In this regard, Law No. 25844 stated the conditions in which new agents could participate in the Electrical Sector in each activity of the electrical sector chain (generation, transmission and distribution). The main principles to be applied in the sector were the free entrance and the open access, considering pricing freedom for the generation and commercialization activities, and regulated prices for transmission and distribution activities.

In connection to the abovementioned, years later, in 1996 and 1997 specific regulatory Laws for the sector were enacted. In 1996, Law No. 26734 created the Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN), the regulator entity of the sector to which the Ministry of Promotion functions in electrical matter were transferred; and, in 1997, the Law No. 26876, which regulates the antitrust rules of the electric sector was published.

Nowadays, the Government's participation in the energy sector is very limited compared to the role that the private sector has been developing.

However, according to the data from the National Fund for the Finance of the Corporate Activity of the Peruvian Government (FONAFE), the state presence becomes more important outside of Lima, principally, in the generation and distribution of electricity, as it is shown in the map below:



# Government enterprises under Fonafe's supervision



Activities	No.	Company	Region
Generation	1	Hidrandina	Cajamarca, La Libertad and Ancash
	2	Seal	Arequipa and Ica
	3	Egasa	Arequipa and Ica
	4	Egamsa	Cusco
	5	Egesur	Tacna and Ica
	6	Electroperu	Huancavelica and Tumbes
	7	San Gabán	Puno
Distribution	8	Adinelsa	Amazonas, Cajamarca, Tumbes, Piura, Lambayeque, La Libertad, Lima provincias, Ica, Huancavelica, Ayacucho, Junín, Pasco, Huanuco, San Martín, Arequipa, Iquitos and Ucayali
	9	Electro Oriente	Loreto, San Martín, Amazonas and Cajamarca
	10	Electro Puno	Puno
	11	Electro Sur Este	Cusco, Apurímac and Madre de Dios
	12	Electro Ucayali	Ucayali
	13	Electro Centro	Huánuco, Pasco, Huancayo, Huancavelica and Ayacucho
	14	Electro Noroeste	Piura and Tumbes
	15	Electro Norte	Cajamarca and Lambayeque
	16	Electrosur	Tacna and Moquegua

Sources: National Fund for the Finance of the Corporate Activity of the Peruvian Government - FONAFE / EY

Rural electrification is a subject of public relevance in Peru, since the publication of Law No. 28749, General Law of Rural Electrification, the Peruvian Government has declared the national need to supply with electricity to rural areas, isolated localities and country borders, especially because it is an essential service for sustainable socioeconomic development, improving the quality of life of the population, combating poverty and discouraging rural exodus.

It is in this context that the Government assumes a subsidiary role as an investor in the process of the electrification of the rural areas, and also because the execution of energy projects in these areas is highly expensive.

Notwithstanding the above, the private investment has been raising interest in the Peruvian energy sector, mainly due to the legal dispositions that have been enacted to enhance the conditions for the development of the sector, which consider the new global trends and the needs of the Peruvian population. In this sense, the Government is focusing in the introduction of incentives for attracting investment in clean energies infrastructure in order to increase the offer of energy all around the Peruvian territory.

## Investments in the electrical market

According to ProInversión, 3.6% of the investment to be made in 2021 will be related to electrical activities. As of February 2021, the projects to be developed or continue to be developed consist of the construction of transmission grids, substations, and modernization regional electric companies all along the Peruvian territory. The main projects that have been announced are Transmission Line 500 kv Piura Nueva - Frontera (Ecuador) Substation, Transmission Line Puerto Maldonado - Iberia and Substation Chira.



Government take in the electrical market

Fiscal revenues of the Electricity Sector

The Electricity Sector generates an important amount of fiscal revenues regarding the general applicable taxes to all corporations (Income Tax and Value Added Tax), despite of the special rules applicable to the sector for promoting

the investments. The following chart shows the revenues obtained by the Tax Authority for Electricity Generation in the recent years, and the percentage that represents in relation to the total fiscal revenues of a year.

	Fiscal revenues 2014 - 2020 (in S/ Millions)						
	2014	2015	2016	2017	2018	2019	2020
Income Tax	1,113.0	1,281.0	1,339.0	1,191.0	1,247.5	1,498.1	1,295.6
VAT	1,016.2	1,217.2	1,273.6	1,421.4	1,751.9	1,985.4	1,940.5
Total	2,129.2	2,498.2	2,612.6	2,612.4	2,999.4	3,483.5	3,236.1

Sources: SUNAT / EY

	Fiscal revenues 2014 - 2020 (Percentage)						
	2014	2015	2016	2017	2018	2019	2020
Income Tax	6.0%	7.6%	8.1%	7.7%	7.2%	8.4%	9.4%
VAT	3.5%	4.0%	4.1%	4.4%	5.0%	5.2%	5.9%

Sources: SUNAT / EY





## Special contributions

### OSINERGMIN Contribution

This contribution is applicable to generation, transmission and distribution concessionaries of the electricity sector, and it should be paid to the Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN). The rate of this contribution is 0.51% for 2020, 0.49% for 2021 and 0.47% for 2022, applied on their monthly billing after deducting VAT.

### OSINERGMIN contribution (in S/)

	2016	2017	2018	2019	2020
OSINERGMIN Contribution paid by corporations of the electricity sector	121,522,316	121,951,581	123,538,278	124,392,140	113,984,134
Total OSINERGMIN Contribution (Mining, hydrocarbons and electricity companies)	331,412,821	368,314,166	388,699,668	355,511,647	352,514,436

Source: OSINERGMIN

### OEFA Contribution

This contribution is applicable to generation, transmission and distribution concessionaries of the electricity sector, and it should be paid to the Environmental Audit and Evaluation Agency (OEFA). The rate of this contribution for years 2020-2022 is 0.11 % applied on their monthly billing after deducting VAT.

### OEFA contribution (in S/)

	2016	2017	2018	2019	2020
OEFA Contribution paid by corporations of the electricity sector	24,789,071	25,518,251	26,460,218	27,136,960	27,332,910

Source: OEFA

Hydroenergetic Canon revenue

The Hydroenergetic Canon is a portion of the income earned by the Government for the payments made by corporations regarding the utilization of hydric resources in electricity generation activities. The beneficiaries of this Canon are the Local and Regional Governments, and this kind of canon is equivalent to 50% of the Corporate Income.

Tax paid by corporations that are holders of concessions in which hydric resources are used.

Hydroenergetic canon distribution (in S/)

	2016	2017	2018	2019	2020
Transfers to Regional Governments	51,075,503	51,500,188	49,053,491	45,782,232	40,544,068
Transfers to Local Governments	153,208,597	154,522,504	147,160,472	137,346,696	121,632,201

Source: Ministry of Economy and Finance (MEF)



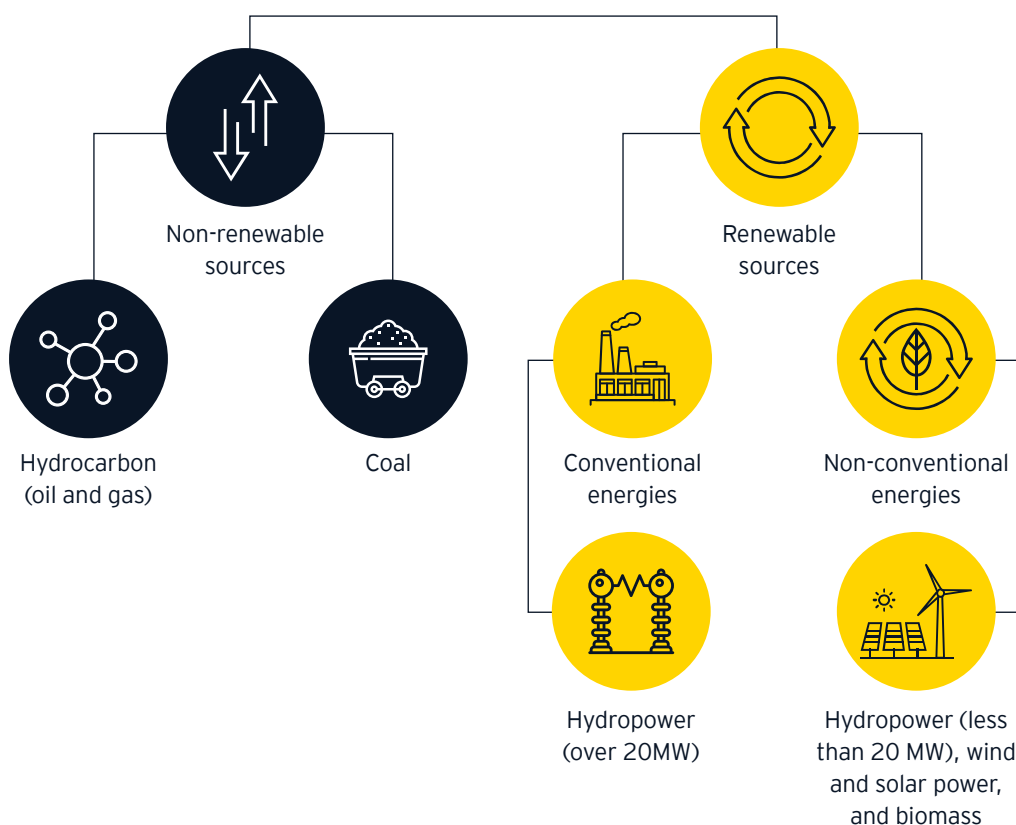
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# Electricity production and exports

## Electricity supply

With the development of economy, electricity needs have increased. As this relation between the development of economy and the use of electricity is a direct one, through the years, the Government has put effort on trying to connect every area of Peru to a stable source of electricity. In this sense electricity has become one of the main issues when elaborating National Policies on economy and social issues.

Currently, electricity offered by corporations on the electrical business can be classified according to the following:

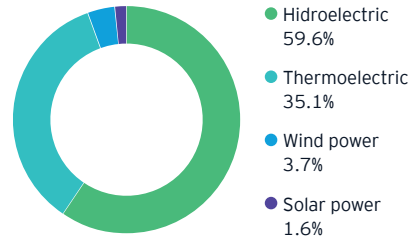


In the recent years, a new global trend on clean energy has emerged, which makes possible the increase on electrical generation based in renewable sources. However, it is still not the most important source of energy in the Peruvian production of the electrical market. The production of electricity using this new kind of energies is expected to increase in the following years as our energy matrix will tend to become a diversified one.

According to the annual report elaborated by the Economic Operation Committee of the National Interconnected System (COES), the electricity produced during 2019 was mostly based on hydric sources, being followed by

energy produced by diesel, gas and coal (thermoelectric energy). Just little energy has been being produced on wind and solar plants (non- conventional renewable sources).

### Production estructure (2020\*)



\*As of November, 2020

Source: Economic Operation Committee for the National Interconnected System (COES)

### Generation Dispatch

Source Type	2017		2018		2019		2020*	
	GWh	%	GWh	%	GWh	%	GWh	%
Hydraulic	31,783	54.5%	32,819	56.5%	30,168	57.0%	26,570	59.6%
Natural Gas	23,674	40.6%	23,379	40.2%	19,951	37.7%	15,340	34.4%
Coal	1,084	1.9%	144	0.2%	36	0.1%	13	0.0%
Biomass	143	0.2%	143	0.2%	252	0.5%	271	0.6%
Wind	987	1.7%	987	1.6%	1,646	3.1%	1,656	3.7%
Solar	-	-	-	-	762	1.4%	704	1.6%
Residual	427	0.7%	12	0.0%	47	0.1%	7	0.0%
Diesel	184	0.3%	0	0.0%	27	0.1%	42	0.1%
<b>Total</b>	<b>58,282</b>	<b>100%</b>	<b>63,508</b>	<b>100%</b>	<b>52,889</b>	<b>100%</b>	<b>44,603</b>	<b>100%</b>

\*As of November 2020

Source: Economic Operation Committee for the National Interconnected System (COES)

Despite of that fact, we must point out that the promotion of investment in the electric power industry has been established as a national priority in the past years and corporations have introduced new technologies for efficient process, and as a result the generation of electricity has increased year by year.

As an example of this, in 2013, the electricity produced in Peru reached 39,916 GWh, while years later, in 2019, the electricity produced was about 52,889 GWh.

## Annual production of electrical generation power stations of COES

	2014	2015	2016	2017	2018	2019	2020
GWh	42,051	44,787	48,587	49,570	51,293	52,889	49,187

Source: Economic Operation Committee for the National Interconnected System (COES)

## Electricity demand

The demand of the electricity sector is split in three groups: the Interconnected Electrical National System (SEIN), the Isolated Systems, and self-producers. Between this demanding groups, two classes of consumers are identified: free users and regulated users.

Free users are the electricity users who are not subject to pricing regulations in regard of the electricity and power that they use. This category of users has a sub-category of "great users", which consists of the users that have signed contracts to obtain power of 10MW or more. This class of users have negotiation capacity in order to set prices along with their supplier, which can be a distributor or a generation corporation of the SEIN.

On the other hand, the regulated users group consist of users who are subject to pre-established prices (i.e. bar prices) with no negotiation capacity when contracting with electrical suppliers. The Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN) is the entity responsible for setting the prices for this kind of users.

It should be noted that the demand for energy in the Peruvian market has been showing a positive trend month by month, as can be verified through the following data extracted from the reports of maximum demand of the COES:

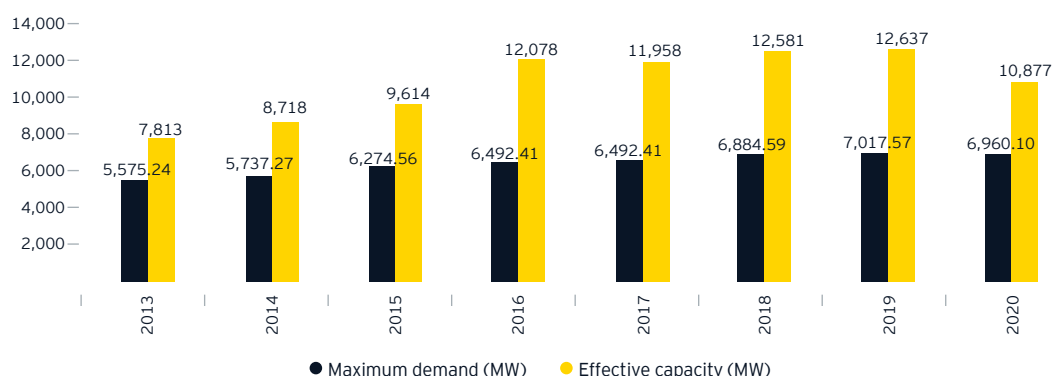
2020	Maximum demand (Mw)
January	7,070
February	7,125
March	7,116
April	5,173
May	5,682
June	6,101
July	6,363
August	6,550
September	6,607
October	6,836
November	6,836
December	6,960

Source: Economic Operation Committee for the National Interconnected System (COES)

Nevertheless, despite the constant increase in electrical consumption in Peru, it is said that the local market has an “oversupply of energy”, which would be due to the excess of effective capacity with respect to the reported

consumption. This is reflected in the fact that the reserve margin of energy has been increased since 2013, reporting an excess of 26%, until 2019, where a margin of 44% was reached.

### Electricity Maximum Demand and Effective Capacity (end of year comparatives)



Source: Economic Operation Committee for the National Interconnected System (COES)

However, it is important to bear in mind that some experts of the industry attribute this “oversupply of energy” to external factors of the Peruvian electric market, not being connected with the real necessity of energy in the country. To this regard, some of the reasons given to explain this “oversupply of energy” are the following:

- Due to the big amount of electric generation projects that have been granted in the past and that today remain under operation, the surplus of generated electricity has not found a way out into the market through the limited capacity of the transmission grids.
- Electric generation companies pointed out that there are lots of electric generators operating in the market, so the need to sell the produced electricity leads to a price war. Because of this, prices offered –most

of the time– get so low that they become unsustainable for the cost structure of the generators, distorting the natural electrical market.

- According to other specialists, the sudden suspension of new big projects due to the economic slowdown and political factors, create bottlenecks in the country between investments on electricity projected for big demands, and the growth not realized in electricity demand that remained almost at a similar level.
- Others argue as an important issue regarding the Peruvian demand of electricity, the presence of clandestine users. Such kind of users does not allow for a reliable measurement of the electricity demand as they cannot be supervised in plain sight by regulators.

Moreover, according to other experts, this “oversupply of energy” is logical and common in the systems of electrical generation, as there is always an additional reserve (to face a drought, an incident in the gas pipeline, maintenance or failure of a power plant, among others), since the supply of energy must be continuous and sustained. Therefore, there is always a margin that the Ministry of Energy and Mines (MINEM) estimates.

Countries of the South American Region have reserves, for instance, Chile 90% in its central interconnected system, Ecuador 50%, and Colombia 60%, which confirms that they are required reserves to address the main risks.

Thus, from the point of view of such experts, the energy reserve margin is not an indicator of “oversupply of energy” in an economic and literal sense because the country still maintains an electric need to be covered. External factors of the electrical market contribute to accumulated energy reserves that in the end are a good problem because energy reserves margin shows the high growth market and its externalities.

On the other hand, authorities have highlighted that the reactivation of mining projects and GDP growth might cause the scenario of “oversupply of energy” to be reversed, since according to the Ministry of Energy and Mines, by the year 2019 it estimates an electricity demand of the current mining projects of 90 MW, and for the years 2020 to 2022 an additional electricity demand of 913 MW is estimated, mainly coming from the mining projects Quellaveco, Mina Justa, the extension of Toromocho and others.

“

The energy reserve margin is not an indicator of “oversupply of energy” in an economic and literal sense because the country still has an energy need to be covered

Under this scenario, the experts has estimated that during period 2022-2028 Peru would suffer a “shortage of electricity” if the number of generation plants is not increased soon.

Considering that the mining sector is the main electricity consumer of the country, we have to highlight that this last scenario is coming, despite the effects of COVID since mining as an activity is already in the reactivation phase, especially considering the rise in the prices of metals and the rapid implementation of sanitary protocols.





## Infrastructure of the electric market

Many projects of energy generation and energy transmission grids have been developed in the last decade due to the guarantees and conditions stated in legal dispositions.

According to our legal framework, the authorization to develop energy related activities can be awarded by means of the following alternatives:

### Award of a ProInversión project

ProInversión is authorized to award pre-designed projects (via concessions related to generation, transmission and distribution of energy. This entity is also entitled to evaluate and award private initiative projects regarding the activities developed in the electricity sector according to the applicable laws.

### Grant of a MINEM concession

MINEM is authorized to award definitive and temporal concessions, once the requests of the interested corporations are duly evaluated according to the requirements stated in the Electric Concessions Law. This entity also elaborates the conditions and requirements to be considered in the OSINERGMIN auctions for generation of electricity based on renewable energies.

## Authorization through OSINERGMIN auction

This kind of concession award is only applicable to generation of electricity based on renewable energies in the terms of Legislative Decree No. 1002. The auction is on the energy quote to be established by MINEM. For these purposes, interested corporations propose a determined amount of energy (MWh) and its associated price (USD/MWh). The awards are given to the corporations that proposed the lowest prices until covering the energy quote. By the end of 2017, the OSINERGMIN had already hosted four auctions.

## Cold Generation Reserve Concession Contracts

These are projects that have a national need and priority execution in Peru, because they have the function of ensuring the availability of power and energy in the country's electrical system in emergency situations in the supply of electricity. They are supervised by the OSINERGMIN (through the Electric Supervision Department).

## Long-term Electricity Supply

These are bidding contracts for the supply of electricity between Regulated Users or Free Users and electricity distribution companies, which are regulated and supervised by OSINERGMIN. The purpose of this type of bidding is due to preventive measures on the part of the Peruvian State to achieve the timely supply of electricity to specific users, in a space where free competition is not affected or a risk of dominance is generated. Additionally, free users can sign transport and / or distribution contracts with the concession holders.



During the year 2019, it was reported that 5 power generation plants with a total installed capacity of 49.1 MW entered into commercial operation. Of this group, four were mini-hydropower plants that individually injected power of no more than 20 MW and one biomass power plant with a power of 7.5 MW.

Likewise, until July 2020, two generation plants entered into operation, a hydroelectric plant and a biomass thermal plant, with an installed power of 18.9 MW and 2.4 MW, respectively.

Among these projects we can find the "8 de Agosto" hydroelectric plant with an investment of USD51 million and an installed capacity of 19.0 MW, the Manta hydroelectric plant with an investment of USD43.6 million and an installed capacity of 18.9.0 MW, "Zaña" with an investment of USD37.1 million and an installed capacity of 13.2 MW, "El Carmen" with an investment of USD15 million and an installed capacity of 8.4 MW, among others.

### Electrical generation units - Under operation

No.	Power Plant Name	Concession Holder	Granted by	Installed Capacity (MW)
1	Aguaytia Thermal Power Plant	TERMOSELVA S.R.L.	MINEM	156
2	Aricota 1 Hydropower Plant	EMPRESA DE GENERACION ELECTRICA DEL SUR S.A.	MINEM	23.8
3	Aricota 2 Hydropower Plant	EMPRESA DE GENERACION ELECTRICA DEL SUR S.A.	MINEM	11.9
4	Cahua Hydropower Plant	STATKRAFT PERU S.A.	MINEM	39.6
5	Callahuanca Hydropower Plant	ENEL GENERACIÓN PERÚ S.A.A.	MINEM	80.65
6	Caña Brava Thermal Power Plant	BIOENERGIA DEL CHIRA S.A.	MINEM	12
7	Cañon del Pato Hydropower Plant	ORAZUL ENERGY EGENOR	MINEM	256.55
8	Carhuaquero Hydropower Plant	ORAZUL ENERGY EGENOR	MINEM	95.00
9	Cerro del Aguila Hydropower Plant	KALLPA GENERACION S.A.	ProInversión	535
10	Chaglla Hydropower Plant	EMPRESA DE GENERACION HUALLAGA S.A.	ProInversión	456
11	Charcani I Hydropower Plant	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	1.8
12	Charcani II Hydropower Plant	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	0.6
13	Charcani III Hydropower Plant	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	5
14	Charcani IV Hydropower Plant	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	14.4
15	Charcani V Hydropower Plant	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	135

No.	Power Plant Name	Concession Holder	Granted by	Installed Capacity (MW)
16	Charcani VI Hydropower Plant	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	9
17	Cheves Hydropower Plant	STATKRAFT PERU S.A.	ProInversión	168.2
18	Chilca (Combined Cycle - Fenix) Thermal Power Plant	FENIX POWER PERU S.A.	Long-Term Electricity Supply	534.3
19	Chilca 1 (Combined Cycle) Thermal Power Plant	ENGIE ENERGIA PERU S.A.	MINEM	862.2
20	Chilca 2 Thermal Power Plant	ENGIE ENERGIA PERU S.A.	MINEM	112.8
21	Chilina Thermal Power Plant (Diesel)	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	48
22	Chimay Hydropower Plant	CHINANGO S.A.C.	MINEM	149
23	El Platanal Hydropower Plant	COMPAÑIA ELECTRICA EL PLATANAL S.A.	MINEM	220
24	Eten Thermal Power Plant	PLANTA DE RESERVA FRIA DE GENERACION ETEN S.A.	Cold generation reserve	240.5
25	Gallito Ciego Hydropower Plant	STATKRAFT PERU S.A.	MINEM	34
26	Huachipa Cogeneration Plant	ILLAPU ENERGY S.A.	MINEM	13.6
27	Huanchor Hydropower Plant	HIDROELECTRICA HUANCHOR S.A.C.	MINEM	16.2
28	Huanza Hydropower Plant	EMPRESA GENERACION HUANZA S.A.	MINEM	90.6
29	Huampani Hydropower Plant	ENEL GENERACION PERU S.A.A.	MINEM	31.36
30	Huinco Hydropower Plant	ENEL GENERACION PERU S.A.A.	MINEM	258.4
31	Huayllacho Hydropower Plant	STATKRAFT PERU S.A.	MINEM	0.29
32	Ilo Thermal Power Plant	ENGIE ENERGIA PERU S.A.	Cold generation reserve	564
33	Ilo 4 Thermal Power Plant	ENGIE ENERGIA PERU S.A.	"ProInversión (south energy node)"	735
34	Independencia Thermal Power Plant	EMPRESA DE GENERACION ELECTRICA DEL SUR S.A.	MINEM	22.9
35	Iquitos Nueva Thermal Power Plant	GENRENT DEL PERU S.A.C.	Cold generation reserve	70
36	Kallpa IV (Combined Cycle) Thermal Power Plant	KALLPA GENERACION S.A.	MINEM	873.9
37	Lagunas Norte Thermal Power Plant	MINERA BARRICK MISQUICHILCA S.A.	MINEM	12.78

No.	Power Plant Name	Concession Holder	Granted by	Installed Capacity (MW)
38	Las Flores Thermal Power Plant	KALLPA GENERACION S.A.	MINEM	193
39	MachuPicchu Hydropower Plant	EMPRESA DE GENERACION ELECTRICA DE MACHU PICCHU S.A.	MINEM	193.6
40	Machupicchu II Hydropower Plant	EMPRESA DE GENERACION ELECTRICA DE MACHU PICCHU S.A.	MINEM	102
41	Malacas Thermal Power Plant (TG6)	ENEL GENERACION PIURA S.A.C.	MINEM	51.4
42	Malpaso Hydropower Plant	STATKRAFT PERU S.A.	MINEM	54.4
43	Mantaro Hydropower Plant	ELECTROPERU S.A.	MINEM	798
44	Maple Etanol Thermal Power Plant (cogeneration)	AGRO AURORA S.A.C.	MINEM	37.52
45	Marañon Hydropower Plant	"CELEPSA RENOVABLES SOCIEDAD COMERCIAL DE RESPONSABILIDAD LIMITADA"	MINEM	18.4
46	Matucana Hydropower Plant	ENEL GENERACION PERU S.A.A.	MINEM	120
47	Misapuquio Hydropower Plant	STATKRAFT PERU S.A.	MINEM	3.68
48	Mollendo Thermal Power Plant (Diesel)	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	31.5
49	Moyopampa Hydropower Plant	ENEL GENERACION PERU S.A.A.	MINEM	63
50	Oquendo Thermal Power Plant (cogeneration)	SDF ENERGIA S.A.C.	MINEM	9
51	Oroya Hydropower Plant	STATKRAFT PERU S.A.	MINEM	90
52	Pachachaca Hydropower Plant	STATKRAFT PERU S.A.	MINEM	12
53	Pariac Hydropower Plant	STATKRAFT PERU S.A.	MINEM	5.1
54	Patapo Hydropower Plant	HYDROPATAPO S.A.C.	MINEM	1
55	Pucallpa Thermal Power Plant	INFRAESTRUCTURA Y ENERGIA DEL PERU S.A.C.	Cold generation reserve	45.7
56	Puerto Bravo Thermal Power Plant	SAMAY I S.A.	"ProInversión (south energy node)"	720
57	Puerto Callao Thermal Power Plant	APM TERMINALS CALLAO S.A.	MINEM	13
58	Puerto Maldonado Thermal Power Plant	INFRAESTRUCTURA Y ENERGIA DEL PERU S.A.C.	Cold generation reserve	20.1
59	Quitaracsa I Hydropower Plant	ENGIE ENERGIA PERU S.A.	Long-Term Electricity Supply	112

No.	Power Plant Name	Concession Holder	Granted by	Installed Capacity (MW)
60	Recka Thermal Power Plant	SOCIEDAD MINERA CERRO VERDE S.A.A.	MINEM	181.3
61	Restitucion Hydropower Plant	ELECTROPERU S.A.	Public Company	210.4
62	San Antonio Hydropower Plant	STATKRAFT PERU S.A.	MINEM	0.62
63	San Gaban II Hydropower Plant	EMPRESA DE GENERACION ELECTRICA SAN GABAN S.A.	MINEM	110
64	San Ignacio Hydropower Plant	STATKRAFT PERU S.A.	MINEM	0.52
65	San Jacinto Thermal Power Plant	AGROINDUSTRIAS SAN JACINTO S.A.A.	MINEM	21.71
66	San Nicolas Thermal Power Plant	SHOUGANG GENERACION ELECTRICA S.A.A.	MINEM	63
67	Santa Rosa I Thermal Power Plant	ENEL GENERACION PERU S.A.A.	MINEM	420
68	Santa Rosa II Thermal Power Plant	ENEL GENERACION PERU S.A.A.	MINEM	190
69	Santa Teresa Hydropower Plant	INLAND ENERGY S.A.C	ProInversión	98.1
70	Santo Domingo de los Olleros Thermal Power Plant (Simple Cycle)	TERMOCHILCA S.A.C.	Long-Term Electricity Supply	197.6
71	Santo Domingo de los Olleros Thermal Power Plant (Combined Cycle)	TERMOCHILCA S.A.C.	MINEM	99.6
72	Tablazo Thermal Power Plant	SUDAMERICANA DE ENERGIA DE PIURA S.A.C.	MINEM	30
73	Talara - Malacas Thermal Power Plant (TG5)	ENEL GENERACION PIURA S.A.C.	Cold generation reserve	200
74	Tumbes Thermal Power Plant	ELECTROPERU S.A.	Public Company	18
75	Yanango Hydropower Plant	CHINANGO S.A.C.	MINEM	40.5
76	Yaupi Hydropower Plant	STATKRAFT PERU S.A.	MINEM	108
77	Yuncan Hydropower Plant	ENGIE ENERGIA PERU S.A.	MINEM	130
78	Ventanilla Thermal Power Plant	ENEL GENERACION PERU S.A.A.	MINEM	485

Sources: OSINERGMIN / COES

## Non-conventional renewable energy generation units - Under operation

No.	Auction	Power Plant Name	Concession Holder	Installed Capacity (MW)
1	1st	Angel I Hydropower Plant	GENERADORA DE ENERGIA DEL PERU S.A.	19.9
2		Angel II Hydropower Plant	GENERADORA DE ENERGIA DEL PERU S.A.	19.9
3		Angel III Hydropower Plant	GENERADORA DE ENERGIA DEL PERU S.A.	19.9
4		Caña Brava Hydropower Plant	ORAZUL ENERGY EGENOR	5.7
5		Carhuaquero IV Hydropower Plant	ORAZUL ENERGY EGENOR	10
6		Chancay Hydropower Plant	SINDICATO ENERGETICO S.A.	20
7		Cupisnique Wind Farm	ENERGIA EOLICA S.A.	80
8		Huasahuasi I Hydropower Plant	EMPRESA DE GENERACIÓN ELÉCTRICA DE JUNIN S.A.C.	10
9		Huasahuasi II Hydropower Plant	EMPRESA DE GENERACIÓN ELÉCTRICA DE JUNIN S.A.C.	10
10		Huaycoloro Biomass Power Plant	PETRAMAS S.A.C.	4
11		La Joya Hydropower Plant	GENERADORA DE ENERGIA DEL PERU S.A.C.	9.6
12		Las Pizarras Hydropower Plant	ELECTRICA RIO DOBLE S.A.	18.8
13		Nuevo Imperial Hydropower Plant	HIDROCAÑETE S.A.	3.97
14		Majes 20T Solar Power Plant	GRUPO T SOLAR GLOBAL S.A.	20
15		Marcona Wind Farm	PARQUE EOLICO MARCONA S.R.L.	32
16		Panamericana Solar Power Plant	PANAMERICANA SOLAR S.A.C.	20
17		Paramonga Biomass Power Plant	AGRO INDUSTRIAL PARAMONGA S.A.A.	23
18		Poechos II Hydropower Plant	SINDICATO ENERGETICO S.A.	10
19		Purmacana Hydropower Plant	ATRIA ENERGÍA S.A.C.	1.8
20		Reparticion 20T Solar Power Plant	GRUPO T SOLAR GLOBAL S.A.	20
21		Roncador Hydropower Plant	MAJA ENERGIA S.A.C.	3.8
22		Santa Cruz I Hydropower Plant	EMPRESA DE GENERACIÓN ELÉCTRICA DE JUNIN S.A.C.	5.9
23		Santa Cruz II Hydropower Plant	EMPRESA DE GENERACIÓN ELÉCTRICA DE JUNIN S.A.C.	6
24		Tacna Solar Power Plant	GRUPO T SOLAR GLOBAL S.A.	20
25		Talara Wind Farm	ENERGIA EOLICA S.A.	30
26		Yanapampa Hydropower Plant	ELECTRICA YANAPAMPA S.A.C.	4.13

No.	Auction	Power Plant Name	Concession Holder	Installed Capacity (MW)
27	2nd	Canchayllo Hydropower Plant	EMPRESA DE GENERACION CANCHAYLLO S.A.C.	5.26
28		El Carmen Hydropower Plant	GENERACIÓN ANDINA S.A.C.	10
29		La Gringa V Biomass Power Plant	PETRAMAS S.A.C.	3.2
30		Manta Hydropower Plant	PERUANA DE INVERSIONES EN ENERGIA RENOVABLE S.A.	18.44
31		Moquegua Solar Power Plant	MOQUEGUA FV S.A.C.	16
32		Renovandes H1 Hydropower Plant	EMPRESA DE GENERACION SANTA ANA S.R.L.	20
33		Runatullo III Hydropower Plant	EMPRESA DE GENERACION ELECTRICA DE JUNIN S.A.C.	20
34		Tres Hermanas Wind Farm	PARQUE EOLICO TRES HERMANAS S.A.C.	90
35	3rd	8 de Agosto Hydropower Plant	GENERACIÓN ANDINA S.A.C.	23.27
36		Carhuac Hydropower Plant	ANDEAN POWER S.A.C.	20
37		Potrero Hydropower Plant	EMPRESA ELECTRICA AGUA AZUL S.A.	19.9
38		Runatullo II Hydropower Plant	EMPRESA DE GENERACION ELECTRICA DE JUNIN S.A.C.	19.1
39		Yarucaya Hydropower Plant	HUAURA POWER GROUP S.A.	16.5
40		Zaña 1 Hydropower Plant	ELECTRO ZAÑA S.A.C.	7.5
41		Callao Biomass Power Plant	EMPRESA CONCESIONARIA DE ENERGIA LIMPIA S.A.C.	2.4
42	4th	Dofia Catalina (Huaycoloro II) Biomass Power Plant	PETRAMAS S.A.C.	2.4
43		Her 1 Hydropower Plant	ENEL GENERACION PERU S.A.A.	0.7
44		Intipampa Solar Power Plant	ENGIE ENERGIA PERU S.A.	40
45		Rubi Solar Power Plant	ENEL GREEN POWER PERU S.A.	144.5
46		Rucuy Hydropower Plant	EMPRESA DE GENERACION ELECTRICA RIO BAÑOS S.A.C.	20
47		Wayra I (Parque Nazca) Wind Farm	ENEL GREEN POWER PERU S.A.	160

Sources: OSINERGMIN / COES



## Electrical generation units - Under construction

No.	Power Plant Name	Concession Holder	Granted by	Installed Capacity (MW)
1	Alcaparrosa Hydropower Plant	ACQUA ENERGÍA S.A.C.	MINEM	9.53
2	Anto Ruiz III Hydropower Plant	NUEVA ESPERANZA HYDRO S.A.	MINEM	102,1
3	Anto Ruiz IV Hydropower Plant	NUEVA ESPERANZA HYDRO S.A.	MINEM	103.8
4	Belo Horizonte Hydropower Plant	ODEBRECHT S.A.C.	MINEM	180
5	Campanayocc Hydropower Plant	ACQUA ENERGÍA S.A.C.	MINEM	4.62
6	Capiri Hydropower Plant	ELECTRO ARAZA S.A.C.	MINEM	80
7	Casca Hydropower Plant	ACQUA ENERGÍA S.A.C.	MINEM	8.42
8	Cativen I y II Hydropower Plant	COMPAÑIA MINERA PODEROSA S.A.	MINEM	30
9	Chadin II Hydropower Plant	AC ENERGIA S.A.	MINEM	600
10	Charcani VII Hydropower Plant	EMPRESA DE GENERACIÓN ELECTRICA DE AREQUIPA S.A.	MINEM	20.92
11	Centauro I y III Hydropower Plant	CORPORACION MINERA PERU S.A.	MINEM	25
12	Cola I Hydropower Plant	HIDROELECTRICA COLA S.A.	MINEM	13.1
13	Curibamba Hydropower Plant	ENEL GENERACION PERU S.A.	MINEM	195
14	La Virgen Hydropower Plant	LA VIRGEN S.A.C.	MINEM	84
15	Limacpuncu Hydropower Plant	ELECTRO ARAZA S.A.C.	MINEM	35
16	Marca Hydropower Plant	ACQUA ENERGÍA S.A.C.	MINEM	8.98
17	Miraflores Hydropower Plant	ACQUA ENERGÍA S.A.C.	MINEM	9.9
18	Molloco Hydropower Plant	GENERADORA ELECTRICA MOLLOCO S.A.C.	ProInversión	280
19	Moquegua 1 Hydropower Plant	EMPRESA DE GENERACION ELECTRICA DEL SUR S.A.	MINEM	15.3
20	Olmos 1 Hydroelectric Power Plant	SINDICATO ENERGETICO S.A.	MINEM	51
21	Pallca Hydropower Plant	CARBON LATAM PERU S.A.C.	MINEM	10.1
22	Pucara Hydropower Plant	"EMPRESA DE GENERACION HIDROELECTRICA DEL CUSCO S.A."	ProInversión	178
23	San Gaban III Hydropower Plant	HYDRO GLOBAL PERU	MINEM	205.8
24	Santa Teresa II Hydropower Plant	INLAND ENERGY S.A.C.	MINEM	280
25	Tallanca Thermal Power Plant	SDE PIURA S.A.C.	MINEM	18.4
26	Tarucani Hydropower Plant	TARUCANI GENERATING COMPANY S.A.	MINEM	49

No.	Power Plant Name	Concession Holder	Granted by	Installed Capacity (MW)
27	Tingo I, II y III Hydropower Plant	ENERGORET S.A.C.	MINEM	406
28	Ttio Hydropower Plant	ELECTRO ARAZA S.A.C.	MINEM	80
29	Tulumayo IV Hydropower Plant	EGEJUNIN TULUMAYO IV S.A.C.	MINEM	56.2
30	Tulumayo V Hydropower Plant	EGEJUNIN TULUMAYO V S.A.C.	MINEM	83.2
31	Veracruz Hydropower Plant	"COMPANIA ENERGETICA VERACRUZ S.A.C."	MINEM	635
32	Viroc (Raura II) Hydropower Plant	AMAZONAS GENERACION S.A.	MINEM	13

Sources: OSINERGMIN / COES

### Renewable energy generation units - Under construction

No.	Auction	Power Plant Name	Concession Holder	Installed Capacity (MW)
1	1st	Shima Hydropower Plant	ENERGIA HIDRO S.A.C.	5
2	2nd	Huatziroki Hydropower Plant	EMPRESA DE GENERACION HIDRAULICA SELVA S.A.	19.2
3	3rd	Colca Hydropower Plant	EMPRESA DE GENERACION ELECTRICA COLCA S.A.C.	12.1
4		Chaupiyacu Hydropower Plant	NUEVA ESPERANZA ENERGY S.A.C.	12
5		Chilcay Hydropower Plant	EMPRESA DE GENERACION ELECTRICA JUNIN S.A.C.	12
6		Hydrika 1 Hydropower Plant	HYDRIKA 1 S.A.C.	6.6
7		Hydrika 2 Hydropower Plant	HYDRIKA 2 S.A.C.	4
8		Hydrika 3 Hydropower Plant	HYDRIKA 3 S.A.C.	10
9		Hydrika 4 Hydropower Plant	HYDRIKA 4 S.A.C.	8
10		Hydrika 5 Hydropower Plant	HYDRIKA 5 S.A.C.	10
11		Huasicancha Hydropower Plant	EMPRESA DE GENERACION ELECTRICA JUNIN S.A.C.	6
12		Karpa Hydroelectric Hydropower Plant	HIDROELECTRICA KARPA S.A.C.	19
13		Laguna Azul Hydropower Plant	MAMACOCHA S.R.L.	20
14		Muchcapata Hydropower Plant	NUEVA ESPERANZA ENERGY S.A.C.	8
15		Nueva Esperanza Hydropower Plant	NUEVA ESPERANZA ENERGY S.A.C.	9.16
16		Santa Lorenza I Hydropower Plant	EMPRESA DE GENERACION ELECTRICA SANTA LORENZA	18.7

No.	Auction	Power Plant Name	Concession Holder	Installed Capacity (MW)
17	4th	Alli Hydropower Plant	CONCESIONARIA HIDROELECTRICA SUR MEDIO S.A.	14.5
18		Ayanunga Hydropower Plant	ENERGETICA MONZON	20
19		Duna Wind Farm	GR TARUCA S.A.C.	18.4
20		Hydrika 6 Hydropower Plant	HYDRIKA 6 S.A.C.	8.9
21		Huambos Wind Farm	GR PAINO S.A.C.	18.4
22	MINEM	Kusa Hydropower Plant	CONCESIONARIA HIDROELECTRICA SUR MEDIO S.A.	15.6
23		Chachani Solar Power Plant	CSF CONTINUA CHACHANI S.A.C.	100
24		Pichu Pichu Solar Power Plant	CSF CONTINUA PICHU PICHU S.A.C.	60
25		Misti Solar Power Plant	CSF CONTINUA MISTI S.A.C.	300

Sources: MINEM / OSINERGMIN

Among the transmission lines that entered into operation in 2019 are two expansions to the Concession Contract for Electric Transmission Systems ETECEN-ETESUR, Expansion No.19 - REP and Expansion No.18 - REP, which together represent an investment of USD18.35 million. Likewise, so far in 2020, the 220 kV Montalvo - Los Heroes Transmission Line began operating, with a length of 128.8 km and representing an investment of USD20.2 million.



## Concession contracts and extension of electric transmission lines - Under construction

No.	Transmission Line Name	Concession Holder	Transmission Capacity (MVA)	Length (km)
1	Connection 220 kV Pariñas - Nueva Tumbes, Substations y Associated Extensions.	CONCESIONARIA LINEA DE TRANSMISION LA NIÑA S.A.C.	250	158
2	Connection 220 kV Tingo Maria - Aguaytia, Substation, Lines and Associated Extensions.	CONCESIONARIA LINEA DE TRANSMISION LA NIÑA S.A.C.	250	73
3	Connection 500 kV La Niña - Piura, Substation, Lines and Associated Extensions.	CONCESIONARIA LINEA DE TRANSMISION LA NIÑA S.A.C.	1400	87
4	Connection 500 kV Nueva Yanango - Nueva Huanuco and Associated Substations	"CONSORCIO TRANSMANTARO"	1400	184
5	Extension N ° 20: Substation Combapata, Substation Huanuco, Substation Reque, Substation Tingo Maria and Substation Tocache.	RED DE ENERGIA DEL PERÚ S.A.	TBD	TBD
6	Mantaro 500 kV connection - New Yanango - Carapongo and Associated Substations	"CONSORCIO TRANSMANTARO"	1400	390
7	T.L. 138 kV Aguaytia - Pucallpa (second circuit)	TERNA PERU S.A.C.	80	132
8	T.L. 220 kV Machupicchu - Quencoro - Onocora - Tintaya and Associated Substations	ATN 3 S.A.	300	354
9	T.L. 220 kV Moyobamba - Iquitos	"LINEAS DE TRANSMISION PERUANAS S.A.C."	150	596
10	T.L. 220 kV Tintaya - Azangaro	"RED ELECTRICA DEL SUR S.A."	150	138

Source: OSINERGMIN

### Transmission lines in energy generation units - Under construction

No.	Transmission Line Name	Generation Power Plant	Concession Holder	Transmission Capacity (MVA)	Length (km)
1	T.L. 60 kV Substation Huatziroki - Substation Yurinaki	HUATZIROKI I	EMPRESA DE GENERACION HIDRAULICA SELVA S.A.	60.00	30.70
2	T.L. 66 kV Substation Manta - Substation La Pampa	MANTA	PERUANA DE INVERSION DE ENERGIAS RENOVABLES S.A.C.	66.00	2.70
3	T.L. 60 kV Substation Runatullo III - Substation Tulumayo IV	TULUMAYO IV	EGEJUNIN TULUMAYO IV S.A.C.	60.00	7.50
4	T.L. 138 kV 8 de Agosto Substation - Tingo Maria Substation	8 DE AGOSTO	GENERACION ANDINA S.A.C.	138.00	58.70
5	T.L. 138 kV Santa Lorenza Substation - T.L. Paragsha 2 - Amarilis	SANTA LORENZA	EMPRESA DE GENERACION SANTA LORENZA S.A.C.	138.00	7.10
6	T.L. 138 kV Substation Tarucani - Substation Majes	TARUCANI	TARUCANI GENERATING COMPANY S.A.	138.00	57.70
7	T.L. 220 kV Substation Belo Horizonte - Substation Tingo Maria	BELO HORIZONTE	ODEBRECHT S.A.C.	220.00	19.50
8	T.L. 220 kV Substation Llatica - Soro - Substation Huambo	MOLLOCO	CONSORCIO CEE	220.00	27.50
9	T.L. 220 kV Substation Pucara (Pampa Hanza) - Substation Onocora	PUCARA	EMPRESA DE GENERACION HIDROELECTRICA DEL CUSCO S.A.	220.00	1.40
10	T.L. 220 kV Substation Tulumayo IV - T8	TULUMAYO IV	EGEJUNIN TULUMAYO IV S.A.C.	220.00	8.20
11	T.L. 220 kV Substation Tulumayo V - Substation Tulumayo IV	TULUMAYO V	EGEJUNIN TULUMAYO V S.A.C.	220.00	9.20

Source: OSINERGMIN

## Energy export

Regional interconnection is a challenge for a growing market such as the Peruvian electricity market, trying to expand the disputable market to make it more interesting and promote greater investment and more possibilities of choice for the consumers. The generation of significant margins of energy reserves has led to a greater interest in interconnection, to offer surplus energy in other countries.

Peru has an agreement for the exportation of energy with Ecuador under the scope of some Decisions of the Andean Community of Nations (CAN) since 2002.

In 2002, CAN Decision No. 536 established the general rules for the subregional interconnection of the electric systems of Colombia, Ecuador and Peru. This Decision stated the main rules for purposes of the exchange of energy between the signing Countries.

Later in 2009, the aforementioned Decision No. 536 was suspended by means of Decision No. 720. According to Decision No. 757 published in 2011, Decision No. 536 would remain suspended, but a provisional regime for the exchange of energy between Peru and Ecuador would enter into force.

Nowadays, Decision No. 536 is still suspended and the provisional regime is still in force until the new Andean Region Electric Market (MAER) stated in Decision No. 816 is ruled and be published in the Cartagena Gazzette. Once this happens, the MAERC will enter in force in the terms stated in Decision 816 and its ruling.

According to the current provisional regime, the exchange of electricity between Peru and Ecuador will be subject to surplus energy and power of the exporter country. By this, Peru and Ecuador compromise to respect the agreements between entities from both countries as they respect the correspondent internal regulations.

Note that Peru has a simple link grid between Zorritos (Peru) and Machala (Ecuador) so the electric interconnection is pretty basic, that is why the amount of energy import and export between them is not so elevated. In addition, the electricity generators cannot celebrate contracts directly with a foreign company or vice versa, it is the Interconnected Electrical National System (SEIN) that exports electricity and that is credited to the Economic Operation Committee of the National Interconnected System (COES). Nevertheless, we must point out that Peru is seeking to increase the exchange of electricity with Ecuador. In this sense, the Ministry of Energy and Mines has commissioned ProInversión to promote the construction of a second interconnection line with Ecuador, in order to allow a greater exchange of electricity between both countries.

### Electricity exchange between Peru - Ecuador (GWh), accumulated to December 2020

Exchanges	2020	2019	Variation	
			Energy	%
Import	37.45	60.05	-22.60	-38%
Export	0	0	0	0%

Source: Economic Operation Committee for the National Interconnected System (COES)





In relation to other countries of the South American Region, it is important to mention that Peru has a Binational Interconnection Agreement with Brazil signed in 2010, but such interconnection is expected to be a project to be developed in long term; and there is no expectations for a connection between Colombia and Peru grids as they are geographically far, and such connection will require a big investment in infrastructure as such areas are hard to get into.

However, in June 2017 the Ministries of Energy and Mines of Chile and Peru agreed the electric interconnection between both countries, through the construction of the Tacna-Arica transmission line. According with information provided by the regulatory entities of both countries, the electric interconnection could be operational in 2024, and the transmission line will extend for 53 kilometers with a transport capacity of 200 MW, as well as an investment of USD57 million.

This future interconnection would not be the end of the interconnection between Peru and Chile. According to the Ministry of Energy and Mines of Chile, if this project is successful and the market conditions are favorable, they would extend the interconnection to a second project that is projected from the Camisea area (south of Peru) to Antofagasta (north of Chile). So, Chile could export the renewable energy produced in the northern zone, but also buy cheap electricity produced with natural gas that is exploited in Camisea.

# 3

## Renewable energy sources

### **National Energy Plan 2014-2025, COP and OECD**

The Technical Organism for Strategic Planning of Peru (CEPLAN) developed the 2014 - 2025 National Energy Plan. This document describes the current situation of Peru regarding the use of energy in Peru in the recent years and details what should be expected in regard of energy management matters in the short-term future.

Currently, Peru's energy matrix is dominated by the use of hydric sources and natural gas. Noted that the main resource for the production of natural gas from Camisea Project is still one of the biggest projects developed in the energy sector. Before natural source became the main energy source, the energy matrix depended, basically, on liquid fuels and other hydrocarbons.

According to the abovementioned energy plan, in the following years it is expected that generation of energy will come, mainly, from hydroelectricity and other non-conventional renewable sources. This change is already on



its way as the Government is promoting the use of new energy by means of incentives stated in legal dispositions.

Regarding the development of renewable sources, it is worth saying that in years 2020 and 2021, the 1,200Mw of electricity generation awarded in 2014 will be in plenty of use, and that non-conventional renewable resources will increase its participation in the national energy matrix to 5%.

The expected change in our energy matrix follows the same orientation as what is happening globally. Nowadays, countries are rushing to modify the structure of their energy matrices and make them dependent on renewable resources for economic, social and environmental reasons (such as Nordic countries, Costa Rica, Uruguay, Mexico and Chile).

Every year, Kyoto signing countries hold the Conference of the Parties (COP), which is an annual meeting in the framework of the United Nations Framework Convention on Climate Change (UNFCCC). This meeting serves to assess progress in dealing with climate change and negotiate the Kyoto Protocol to establish legally binding obligations for developed countries to reduce their greenhouse gas emissions and consider the principles and discuss the main aspects for the implementation of the Paris Agreement.

In 2018, the COP meeting discussion had an approach that includes gender equality and environmental cleanliness, likewise the countries that are signatories to the agreement have committed to reduce greenhouse gas emissions to limit the average increase in global temperature.

By its side, the Organization for Economic Co-operation and Development (OECD) is also a great promoter of the use of clean energies as an international policy. According to the OECD, investment in clean energies needs to be mobilized at pace and scale to contribute to mitigating climate change and achieve the transition to a low carbon energy system. For the OECD the need of global policy for the use of clean energy is a relevant factor for the social and economic development of countries. Regarding this, the OECD has held roundtables in which the main discussion was the need of investment in clean energies globally.

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**This 2014 - 2025  
National Energy  
Plan highlights the  
importance of the  
use of clean energy  
in the future in order  
to prevent any future  
energy deficit**

## Renewable energy policy

Regulation in Peru on renewable energies is still limited. In year 2000, the first specific Law on an energy issue, Law No. 27345 - Law for the promotion of the efficient use of energy, was enacted. Later, in year 2005, Law No. 28546 - Law for the promotion and use of renewable energy sources in rural, isolated and borderline areas was enacted.

They represented the first attempt of the Peruvian Government to generate renewable source-based energy. Since this, the regulatory framework orientation changed and aimed to promote the development of electricity production by means of the use of big-scale energies (on-grid and off-grid).

Despite there was a general law for geothermal energy -a kind of renewable energy- since 1997, its regulations were just published in 2006 by means of Supreme Decree No. 072-2006-EM. This Supreme Decree established the conditions and other important regulations regarding the development of geothermal concessions in Peruvian Territory, and then was replaced for the new regulations published in 2010 by means of Supreme Decree No. 019-2010-EM.

In 2008, Legislative Decree No. 1002 was enacted. The main purpose of this Legislative Decree was to qualify the promotion of renewable energies as an issue of national interest. In this sense, this Legislative Decree established the main regulations for the auction of renewable source energy and its conditions.

As of this, by the end of year 2008, the first renewable source energy auction was hosted by the Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN).

This was the beginning of the Peruvian path on clean energies.

Later, in 2010, the first Energy National Policy was published for period 2010 - 2040. This document set the long-term objectives and principles in energy matters that Peru should reach by 2040. As a way to reach such objectives, a medium-term National Policy was then published for period 2014 - 2025. In this document, the expectations for the future of Peru in Energy regulation and development are described.

This 2014 - 2025 National Energy Plan highlights the importance of the use of clean energies in the future in order to prevent any energy deficit and at the same time promote the regional sustainable development and integration. Also, this Plan foresees that the 800,000 TJ of energy consumption registered in 2014 will increase to 1'321,000 TJ to 1'612,000 TJ in 2025 depending on Peru's GDP in such year.

Despite this great effort to set a path to development in energy matters, it is still pending a specific National Plan for the Development of Clean Energies (Renewable Energies).



## 4

# Potential of Renewable Energy Sources

According to Bloomberg's analysis in Bloomberg's New Energy Outlook 2019 (NEO), the role of coal in the global electricity matrix will fall from 37% today to 12% in 2050, and oil as a source of generation will be virtually eliminated. of energy. Wind and solar power will grow from 7% generation today to 48% in 2050. Contributions from hydroelectric, natural gas and nuclear power will remain roughly level on a percentage basis.

NEO analysts note that by 2030, energy generated or stored and dispatched by solar photovoltaic modules, wind turbines, and lithium-ion batteries will undermine the electricity generated by existing coal and gas plants almost everywhere, maintaining a aggressive cost reduction of 28%, 14% and 18% respectively for each doubling in global installed capacity.

## Hydropower

Water is the main renewable energy source in Peru for the generation of electricity, both in the interconnected system and in isolated systems (especially associated with mining companies and some industries). Since many years ago, hydroelectric plants have helped generate electricity, producing less contamination and by this, meaning a big earning of economic sources for users.

In Peru, this kind of energy is possible thanks to three big water sources: the Atlantic basin, the Pacific basin and the Titicaca basin. The Pacific basin is the one with the highest deficiency of surface runoff, and the one with the highest demand for water due to the greater concentration of population, industry and agricultural activities, while the opposite happens on the Atlantic basin, presenting the greatest availability of surface water with minimum demand.

According to the Atlas of the Hydropower Potential of Peru developed by the MINEM in 2011, Peru has an estimated hydropower potential of 69,445 MW.

### Usable hydropower potential (MW)

Basin	Usable hydropower potential (MW)
Atlantic	60,627
Pacific	8,731
Titicaca	87
<b>Total</b>	<b>69,445</b>

Source: MINEM (Atlas of the Hydropower Potential of Peru, 2011)

## Wind power

This kind of energy consists of the movement of big air masses from high atmospheric pressure areas to low atmospheric pressure areas. Due to the location of Peru on the globe, including areas between the Pacific Ocean and the Andes, winds from the south west lead to great opportunities for the use of wind power energies as they reach speeds greater than 5m/s (this is the minimum speed needed to generate electricity with this source).

According to the Wind Atlas of Peru developed by the MINEM in 2016, Peru has an estimated wind power potential of more than 20,000 MW. The areas with the greatest potential for large capacity wind generation are on the coast. The regions of Piura, Lambayeque and Ica have the highest average annual wind speeds.

### Usable wind potential (MW)

Region	Usable Wind Power Potential (MW)
Amazonas	129
Ancash	708
Arequipa	1,020
Cajamarca	891
Ica	2,280
La Libertad	921
Lambayeque	7,017
Lima	429
Piura	7,098
<b>Total</b>	<b>20,493</b>

Source: MINEM (Wind Atlas of Peru, 2016)

Wind power can complement hydropower, because it is precisely during the dry season when the best movement of the winds occur on the Peruvian coast, the same ones that have an energy vocation for their stability and power. Currently, the potential of this kind of energy is almost three times greater than its actual installed capacity.

It should be noted that, in July 2018, the largest wind farm in Peru was inaugurated. The project called Wayra I is located in Marcona, Ica Region, has an installed capacity of 126 MW and is composed of 42 wind turbines of 3.15 MW (90 meters high each).

## Tidal power

Among the most important maritime energies is tidal energy. This type of energy is harnessed through the movement of the tides formed in the oceans. However, despite its high energy potential, its installation costs are high, added to the visual impact it causes on the landscapes.

Currently, three types of technologies are used to harness tidal power: the tidal barrage, the tidal stream generator and the dynamic tidal power.

Although there are still no tidal power plants in Peru, through Legislative Decree No. 1002, the Law for the Promotion of Investment for the Generation of Electricity with the Use of Renewable Energies has been included as renewable energy, among others, that generated through the tidal power.





# Geothermal power

This energy is generated and stored in the earth due to its heat. Whenever temperatures cause underground water to reach its boiling point, this can be useful for purposes of using such heat to make turbines work and generate energy. This is known to happen most frequently in volcanic areas.

Scientifically, as we have many volcanic areas in Peru, and we are located in the seismic zone of the well-known Pacific Ocean Ring of Fire, there are numerous thermal sources with temperatures between 40°C (104°F) and 90°C (194°F) that are mostly located in the Occidental side of the Andean Mountains and the highlands. According to the Master Plan for the Development of Geothermal Energy in Peru, prepared by the Japan International Cooperation Agency (JICA) in the year 2012, the total geothermal potential of Peru was estimated at close to 3,000 MW.

Geothermal Region	Power (MW)
Peru Norte	152.0
Cajamar-La Libertad	193.0
Callejon de Huaylas	236.3
Churin	125.0
Central	32.0
Eje Volcanico Sur	1,597.0
Cusco-Puno	524.1
<b>Total</b>	<b>2,859.4</b>

Source: Agencia de Cooperación Internacional de Japón

As such, Peru has more than 156 identified geothermal areas, more than 200 hot water runoffs, many vents and some geysers with temperatures near the 100°C (212°F). The greatest geothermal potential of Peru is found in six geothermal regions: Cajamarca, Huaraz, Churin (Lima, Pasco y Huanuco), Central Zone (Huancayo, Huancavelica and Ayacucho), Volcanic Zone (Ayacucho, Apurimac, Arequipa, Moquegua and Tacna), and Puno and Cusco.

The geothermal energy generation potential is of special attention to MINEM, therefore the RER Regulation is about to be modified to mitigate the risks inherent to this activity and promote the initiation of investment in this energy source.

# Solar power

This kind of energy is, basically, the source of the origin of every other kind of energy. The appropriate utilization of solar power by means of solar panels and other solar collectors lead to the generation of thermal energy that can be used in isolated areas and places where there is no connection to electric grids.

As this energy depends on solar light, it is the easiest to reach in almost every place of Peru. The average annual radiation of Peruvian regions oscillate between 3.3kWh/ m2 and above 6.0kWh/m2 annually, being Ancash, Arequipa, Lambayeque, Moquegua, Puno and Tacna the regions with the highest average, and hence, being the regions with the most potential.

Regarding this kind of energy source, in 2003, the National Service of Meteorology and Hydrology (SENAMHI) elaborated a Solar Power Atlas in which important valuation of this source is detailed. Despite this document has not been updated, there are many other scientific publications in which the Peruvian solar energy potential is described in detail.

In March 2018, the operations of the largest solar plant in the country began. The Rubi Solar Power Plant, located in the desert of the Moquegua Region, has an installed capacity of 144.48 MW, which is obtained through the installation of 560,880 photovoltaic modules located in a space of 400 hectares.

## Biomass power

This kind of energy is more likely to be used in isolated systems where there are no other renewable resources. There are three major regions where biomass presents an interesting potential to be used for medium energy purposes and great power: the northern coast (sugarcane bagasse, rice husk, hydrobiological waste); the high jungle (coffee husks, forest residues); and the low forest (forest residues).

According to the report "Sustainable energy production from biomass waste in Peru "(NAMA proposal November 2015) Biomass potential in Peru is estimated between 450 to 900 MW. In Lambayeque, Lima and Loreto, sugar cane contributes a substantial share to the total waste-to-energy generation potential. In Junin, primary energy is almost exclusively related to cotton, whereas in Amazonas, Puno and Tacna, residues from rice can be an important source of energy.

To this regard, in Lima, in the province of Huarochiri, there are located two biomasses power plants, the Huaycoloro I and the Huaycoloro II, with a joint installed capacity of 6.4 MW. It is worth mentioning that the Huaycoloro I project was carried out within the framework of the first auction for the supply of energy with renewable energy resources, in 2010.

From now on, concerning non-conventional energies (hydropower up to 20MW, solar power, wind power, geothermal power, and biomass power), their promotion via auctions hosted by the Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN) was authorized by Legislative Decree No. 1002 in 2008.

For purposes of these auctions, the Ministry of Energy and Mining (MINEM) states an energy objective to be reached by each kind of energy source. The main incentives for these auctions are that the awarded corporations have priority on the supply and sale of electricity by the Economic Operation Committee of the National Interconnected System (COES), priority on the access to distribution and transmission grids and long-term stable prices determine by auctions.

The conditions for the auctions are established by the MINEM, and the process is hosted by OSINERGMIN. This latter also sets the maximum prices and calculates the applicable premium annually.

In these auctions, awards are granted to offerors who communicate the lowest prices up to the limit of the energy quote applicable to the auction. For these purposes, the interested corporations send offers that detail the desired amount of annual energy (MWh) and its related prices in USD/MWh.



The awarded corporations in these auctions have the right to a minimum income equivalent to the energy and price offered in the auction, but only if their compromised energy amount liability is met. Also, this corporations have the right to additional income based in the energy produced in excess (valued in CMg) and other additional income if reactive energy is generated.

Up to April 2019, a total of 69 projects have been awarded in all four auctions hosted by OSINERGMIN, representing 1,742,164 MW/year of capacity:

## RER auctions

In 2008, the development of non-conventional renewable energies began in Peru as a product of a new regulatory framework that includes periodic and competitive auctions. Thus, to date, four RER auction processes have been carried out connected to the National Interconnected Electric System (SEIN) and one for areas not connected to the network.

### ► First auction (2009 - 2010)

This auction implied two calls. The energy quote established for the first call was 4,380GWh/year between mini hydropower, wind power, biomass power and solar power. In the case of the second call, the energy quote was about 2,500GWh/year between biomass and solar energy.

The first auction in 2009/2010 led to the signing of 27 contracts, including an 18 MW hydropower project awarded in a second call. The projects, four solar power plants, three wind farms, two biomass plants and 18 hydroelectric facilities, giving a total of 424.1 MW capacity installed.

The main awarded projects were Cuspinique wind farm (La Libertad) and Marcona wind farm (Ica).

### ► Second auction (2011)

This auction consisted in one call and the energy quote was 1,981GWh/year between mini-hydropower, wind power, biomass power and solar power.

The second auction resulted in the signing of 10 contracts in 2011 for the construction of a solar power plant, a wind farm, a biomass power plant and seven hydropower plants, giving a total of 210 MW capacity installed.

The main projects awarded were Tres Hermanas wind farm (Ica) and Runatullo III hydropower plant (Junin).

### ► Third auction (2013)

This auction consisted in one call and the energy quote was 320 GWh/year for biomass power, 1300 GWh/year for hydropower, and 500,000 PV systems for solar power.

The third auction in Peru in 2013 contracted 192.8 MW of hydropower from 14 projects. Initially, 19 projects were granted, but five were not signed.

The main projects awarded were Carhuac hydropower plant (Lima) and Laguna Azul hydropower plant (Arequipa).

### ► Fourth auction (2016)

This is the last auction that was hosted by OSINERGMIN. The projects that secured the contracts were two of biomass power, two of solar power, three of wind power and six hydropower that add up to a total of 430.1 MW to the country's system.







This auction showed substantially lower prices compared to the first auction. Prices of solar power fell to USD48 per MWh, while wind power prices dropped to USD38 per MWh. Enel was the main winner getting 326 MW of capacity, including 126 MW of wind power, 180 MW of solar power and 20 MW of hydropower.

The main projects awarded were Wayra I wind farm (Ica) and Rubi solar power plant (Moquegua).

All the aforementioned auctions had had great reception between the corporations of the sector and in each one almost 100% of the established energy quote was able to be covered. There is expected to be a fifth auction this year.

#### ► Off-grid RER auction (2016)

Within the framework of the national rural electrification policy, in 2013 the first RER auction was carried out for the installation of photovoltaic systems in areas not connected to the SEIN network. Thus, in 2014 the tender was delivered to Ergon Perú S.A.C., a company that would be in charge of supplying electricity with photovoltaic systems to 15,000 rural areas throughout the country.

According to the execution schedule, by 2018 450,000 photovoltaic systems were installed to provide electricity to homes, health centers and schools, equivalent to 50 MW of capacity, with an annual remuneration of USD28.5 million per year, covering investment, operating costs and maintenance for a period of 15 years.



# C

## Trends in the Oil & Gas and the electrical industries in Peru

# 1

## Oil & gas

### Trends in the hydrocarbons industry

Stabilization of oil prices above USD50, in addition to cost efficiency plans established during the period when it slugged at USD40, has led to a scenario in which it is necessary to implement the necessary incentives to keep growth in investments.

As previously mentioned in Section A of this Chapter, the Government and Congress are working towards a Draft Oil & Gas Law Amendment (the Draft), which has goal of crystalizing incentives for exploration and exploitations.

On that regard, incentives are just a part of what the Draft has to offer: it will also include dispositions to enhance Perupetro's role in the industry.

In this regard, Perupetro has revised and identified hydrocarbon regulations topics that could be changed in the short-term.

To the extent that the provisions regarding the enhancement of Perupetro's role in the industry are passed via the Draft by Congress, it is likely that the aforementioned agency will have the adequate tools to carry on a reform of the sector, alongside the Ministry of Energy and Mines.

In particular, Perupetro's reform will focus on three pillars or main topics, which are:

- 1) Regulatory framework
- 2) Reinforcement and redefinition of Perupetro's role
- 3) National Plan

The first pillar aims toward developing a more competitive framework with worldwide tendencies that allows it to attract new sustainable investments, with wide entrepreneurial, technological, social, and environmental support. This means, among other aspects, a revision of contractual terms, a regulatory update of norms and regulations, and attainment of a socio-environmental license.

The second pillar is focused on remaking Perupetro into an active investment promoter, leading the interaction and development of sector policies, with full capacity and autonomy. This will include the institutional and organizational strengthening of Perupetro, a redefinition of its promotion process, contractor's support, hydrocarbons production and reservoir management.

The third pillar will aim towards the development of a National Hydrocarbons E&P Plan, by establishing medium and long term production, reserves and goals.

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**Governments will have to step up in order to prevent negative consequences in economies which rely heavily on oil**

Perupetro is also planning to carry out oil bidding rounds on several onshore and offshore blocks during the coming years and thereby promoting investment in the peruvian oil & gas sector.

The opportunity opening for Peru is important, even more so if we consider that the majority of the oil sedimentary basins have not been explored yet. Also, there are large natural gas reserves not only in the area surrounding the Camisea project, but also in other locations, such as Piura and Tumbes.

## **Biofuels**

The development of the natural gas industry in Peru is contributing to the creation of new industrial opportunities around this resource, such as in biofuels and in the Petrochemical Industry. This will contribute to reaching the energy matrix diversification objective, so that by 2025 Peru will have reached a diversified and more equilibrated matrix (13.8% oil; 65.7% natural gas and natural gas liquids; and 20.0% renewable resources).

The most recent proposal for stablish more incentives to the biofuels market was presented to congress in 2018 (Draft Law No. 3325).



## A sight to Oil Companies qualification regulation and Royalties law

In the first half of 2020, a prepublication of a Supreme Decree to approve the New Regulation for Oil Companies Qualification was published by MINEM.

If the Supreme Decree is approved, we will have a new qualification scheme based on areas determined according to their technical characteristics such as:

- ▶ Exploratory potential
- ▶ Average degree of maturity of the fields
- ▶ Minimum depth of wells that will be required
- ▶ Minimum investment for the development of initial activities
- ▶ Degree of technical difficulty to carry out the activities.

Applicants listed as oil and gas exploration and production companies or integrated oil and gas company in the latest publication of "The Platts Top 250 Global Energy Company Rankings" in the categories of "Oil and Gas exploration and Production" or "Integrated Oil & Gas" or similar publications are considered to meet the technical, economic and financial capacity for any zone.

On the other hand, due to the sanitary crisis, the Peruvian government authorized the introduction of clauses in oil contracts that would allow the payment of royalties to be deferred for 90 days and recently it has proposed to modify the current system of royalties has been proposed (in force since 1993 and modified in 2003).

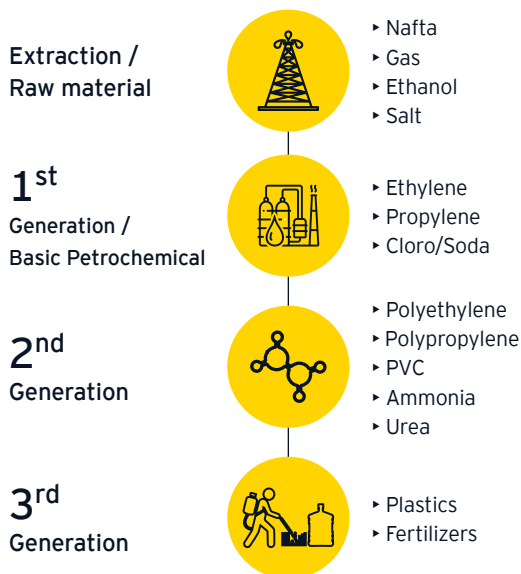
These modifications would be made considering geographic variables as well as the type and price of the hydrocarbon.

## Petrochemical Industry in Peru

The Petrochemical Industry is an important economical segment in many countries, especially in the ones that have available raw material in competitive quantities such as Peru.

In the case of Peru, the vision that needs to be realized is to have a planned petrochemical development for the southern part of the country that will not only supply the country but also create earnings and an export market for its products mainly in the Pacific Coast of Latin America.

## Segments of the Petrochemical Industry



Source: EY

In this sense, the implementation of laws, including the ones affecting energy security and the future of Petrochemical Industry (Laws No. 29163, 29690, and 29970) demonstrate a great opportunity for private companies willing to invest.

Having raw materials (supply) and a developing market (demand) worldwide are some of the variables that make it attractive today to start a competitive Petrochemical Industry in Peru.

### Added value and investment opportunities

The arrival of natural gas to the southern part of the country is a unique opportunity for developing investment projects in petrochemicals, which will add value to the supply chain of natural gas.

#### Natural Gas

Natural gas has many components that can be transformed into other derivatives

- ▶ **Propane  $C_3$** 
  - ▶ Propylene
  - ▶ Polypropylene (plastics)
- ▶ **Ethane  $C_2$** 
  - ▶ Ethylene
  - ▶ Polyethylene
  - ▶ Ox. of ethylene
- ▶ **Methane  $C_1$** 
  - ▶ Ammonia
  - ▶ Urea (fertilizers)
  - ▶ Ammonia Nitrate (fertilizers, ANFO)
  - ▶ Methanol (paints)

### Petrochemical Complex

The development of a Peruvian Petrochemical Industry must search for a synergy between the future Southern Peruvian Gas Pipeline, first and second generation Industrial Petrochemical Complex and the third generation industrial complex: plastic transformation industry (bags, containers, etc.).

Competitive availability of raw material is the main factor to make this Project feasible. In this case, the existence of a reasonable gas flow at the end of the SPP is very important. This hypothesis will only be possible if a new LNG unit is developed in the region, since it is the only project that can add natural gas demands.

The opportunities explained above are great for investors to visualize how this synergistic interrelationship will benefit them, the government and the population in general.

In this sense, we expect that in the next few years the government should impulse the petrochemical industry considering the supply potential of the Camisea project, the same one that this year will promote the construction of a Petrochemical plant in Ica.

### Benefits for the country

The installation of a petrochemical industrial base in the country will not only increase added value to nonrenewable resources such as natural gas, but with the ensuing decrease of imported petrochemical products (improving the trade balance), it will also contribute to improving national and regional economic growth. This growth will create quality jobs and new road and port infrastructure, among other significant benefits for the country, especially to the southern region. Benefits for the country in respect to taxes will be significant.



## Opportunity to join several stakeholders to achieve the desired goals

It is important to consider that the development of a Petrochemical Industry is one of the objectives of the Energy policy of the Peruvian Government. To achieve this goal, it is necessary to establish a Strategic Plan together with the Government, regional and private sectors that will allow this megaproject to be developed in the short term.

Notwithstanding the above, private companies are willing to directly negotiate the terms of supply of natural gas.

On that regard, there are reports of private initiatives (Contugas, Pluspetrol, and a fertilizers producer) looking forwards establishing a petrochemical plant in Marcona.

# 2

## Electricity

### Electromobility

There is a public need to reform the transportation system in Peru. As indicated by Lima Como Vamos study, in Metropolitan Lima approximately 68% of citizens are transported by collective transport, 18% by individual transport, and 12% by non-motorized transport. On the other hand, according to Lima's Municipality, 40% of the public transport's fleet is at least 21 years old.

In this sense, the Ministry of Transport and Communications states that through the application of the sustainability approach, the Government would be seeking to mitigate the impact of transport on the environment, and thus, reducing pollution emissions. In this context, electromobility becomes an opportunity for change in order to have technologically more efficient and less polluting vehicles.

To achieve this objective, the Peruvian Government is carrying out actions to adapt the current regulatory framework to guarantee the entry of electric vehicles into the country and its use in the provision of transport services. At the same time, it is implementing the Vehicle



Homologation System, to ensure that imported electric vehicles comply with quality, efficiency, safety and environmental protection standards.

Even though a small number of electric vehicles are circulating in the country, the tendency is that their acquisition and use will increase with respect to light vehicles, buses, freight transportation vehicles, and mining vehicles. Even now, in the Latin American Region, many projects involving the use of electric vehicles are being developed.

Finally, bear in mind that in the development of this new trend, the implementation of charging infrastructure for electric vehicles cannot be ignored. In the case of light vehicles, such as cars for personal use or taxis, they could be loadable through slow loading points installed in the homes of the owners; however, the availability of electric stations as fast charging points represents a priority need in the electromobility market.

To this regard, fast charging points are not limited to traditional gas stations, but creates disruptive business opportunities, being possible their adaptation in shopping centers, educational centers (for instance, universities), supermarkets, parking lots, among others.

In this sense, we must highlight the efforts of the Government to promote the use of these technologies. Thus, this year through Supreme Decree No. 022-2020-EM, the provisions for the charging infrastructure and supply of electric energy for electric mobility were approved. Likewise, the Regulation for the installation and operation of electric mobility charging infrastructure is close to being approved.

## Distributed generation

In 2006, Law 28832 - Law to ensure the efficient development of the Electricity Generation was published, in which distributed generation is defined as an electrical generation installation, directly connected to the networks of an electric distribution dealer.

However, the concept of distributed generation has expanded, today, it is understood as distributed generation to a variety of technologies that generate electricity in or near the place where it will be used, so that the use of transmission networks is reduced. Also, it is characterized as being of small or medium scale, as it does not exceed 10 MW of capacity.

Now, distributed generation can be done through three mechanisms, self-consumption, net metering and net billing.

Self-consumption consists in consuming the energy that is produced in real time, so, for billing purposes, it does not generate compensation for surpluses. Net metering considers the surplus produced by the distributed generator, which is injected into the network, and allows obtaining a credit to be used in future consumption.

Net billing allows the generated surpluses to be sold to the electricity distribution companies, that is, to inject them into the energy system.

In this sense, although distributed generation has as a consequence advantages over transmission, the reduction of energy losses, generation through renewable energies and a greater control of the use of energy; it can also represent difficulties regarding the recovery of the costs invested in the generation and transmission of energy. It is the main reason why each country develops its own regulation





about distributed generation, in order to adopt a tariff system of injection, balance the investments of the prosumers (domiciliary energy generators) and the traditional companies of distribution, set the conditions for the installation of solar roofs, among others.

During 2018, the Ministry of Energy and Mines published a Draft Law about distributed generation with the aim of creating a new market for the injection of energy into the electricity system, however, to date there have still been no advances regarding its approval.

Despite of it, numerous electric self-generation projects have been carried out in several parts of the country for users connected to the National Interconnected Electric System and isolated, because the use of solar panels represents a financially viable option for the cost savings of electrical services.

“

The shift from an analog to a digital world has driven humankind to the pace of our everyday lives

## Smart grids

They are electrical networks that intelligently integrate the behavior and actions of all agents, in order to provide electric power in a sustainable, safe and economical way. When we talk about smart grids, reference is made to smart meters that calculate production, consumption and tariffs in real time.

To achieve an adequate implementation of smart grids in the electrical system, it is necessary to have a series of devices and technologies, among which are:

- Smart Meters, which are smart electronic meters capable of recording the consumption of electrical energy and transmitting the information collected to a control unit.
- Database management system, whose purpose is to manage and share information in substations and control centers and transmit it to the communication network.
- Intelligent Interfaces to control the distributed resources in order that they can be integrated into the system.
- Control and protection actions are security measures to ensure the reliability of the system.

In Peru, Group Distriluz, a group of electricity distribution and commercialization companies, had announced the start of a project for the replacement of conventional meters for smart meters. This project implies an investment of USD18 million and the progressive installation of 2.5 million smart meters in the following 8 years. This new technology will allow electric users to control their energy consumption through a registry of values and fast readings which will provide the required information in real time.



## Storage System

The storage system allows the transformation of electrical energy into other types of energy (potential, kinetic, chemical, thermal, among others) making its accumulation possible. Thus, the electrical system works with slight alterations, increases its efficiency levels, facilitates its management and reduces its costs.

It is anticipated that storage systems will play a key role in the future as they are directly related to the development of renewable energy. Indeed, they are a great complement to wind and solar energy as they provide greater control of the energy system and contribute to the carbon reduction process.

It should be mentioned that Peru is currently in the sights of large foreign investors, mainly due the discover of one of the largest lithium mines in the world. According to the last report of 2019, said reserve would have approximately 4.71 million tons of lithium carbonate. Thus, in the context of renewable energy, lithium becomes a key material for the manufacture of electric energy storage batteries, commonly used in electric vehicles and photovoltaic systems.

# 3

## Digital trends

Technology has defined the first decade of this millennium since its very beginning. Not only did we witness the dot-com bubble burst and erase millions of dollars in market capitalization of several firms, but also the recovery of those who survived and are now tech giants, such as Amazon, E-bay, and Google.

The shift from an analog to a digital world has driven humankind to increase the pace of our every day lives. Nowadays, it seems completely natural to have visual conversations through our mobile devices with any person anywhere in the globe, to store bigger amounts of data and analyze it at incredible speed, to make renewable energy sources economically viable, and so on.

The Oil, Gas and Electricity industries are embracing and harnessing the power of digital disruption in their daily operations and plans for the future.

In this regard, a recent survey by EY has highlighted the importance of investment in digital technologies in the Oil and Gas industry,



with 89% of respondents expecting to increase investment over the next two years, and 25% foreseeing a significant jump.

Hereunder, we will provide some examples of how technology is helping companies to bring that future today.

## Artificial Intelligence (AI)

These advanced computing techniques based on cognitive computing and self-learning programming methods to optimize and support decision-making will be one of the fastest areas of growth over the next 3-5 years, according to World Economic Forum.

In the case of oil & gas companies, AI could be used together with robotic process automation, generating Intelligent Automation, so that they can employ critical thinking and quality checks among other traditional human processes, which have the potential to automate entire functions and free up time for engineers to focus on engineering tasks.

Moreover, AI could also be used with tools such as big data and analytics to identify the best areas and ways to drill and complete wells at lower costs, decrease unplanned downtime, optimize production, and improve refinery and chemicals operations, among other actions that would add value in the short and/or mid-term.

Certainly, 11% of Oil and Gas industry's executives surveyed by EY have stated that AI and machine learning are technologies they expect to have the greatest positive impact on businesses over the coming five years, with 52% of respondents pointing out that they are currently implementing these technologies.

The Electricity Industry makes a similar use of AI in its activities as the Oil&Gas sector does. Electricity Industry activities also demand the application of AI to simplify processes and reduce the use of some expensive sources. Besides this, AI is also being used for the management of grids that have some level of machine learning and in devices designed to predict failures and outages.

AI has also revolutionized the way engineers and other professionals work whenever emergencies on grids happen, nowadays there are self-healing grids that are able to reroute power around damaged equipment to keep the energy flow. Moreover, AI is also used by consumers that use devices that are able to react to preferences, leading to improved cost control and comfort.

## Internet of Things (IoT)

The internet has gone a long way from just being a means to share information through the web. Now, it can bound together several devices in order to share data almost automatically, and use it with almost no human interaction. The IoT is on its way to integrate the physical tools we use to produce goods and services, and, thus, to live.

The Industrial IoT is one of IoT's uses that could help oil & gas companies of all three segments to improve their operations even further. In that regard Industrial IoT could connect field assets and equipment by using sensors, integrate transportation and storage facilities, or even expand visibility of the supply chain.

As for the Oil and Gas industry, even though 12% of respondents to a survey stated that IoT technologies could have a positive impact on the business in the mid-term, a significant plurality of them named IoT technologies as the riskiest of any, due to cybersecurity issues.

Notwithstanding, 70% of respondents have stated that they were planning to implement IIoT in the next five months.

On the side of Electricity Industry, IoT is used in Supervisory Control and Data Acquisition (SCADA), this is, an application that allows centralized monitoring and control of remote systems for the generation and transmission of energy. IoT is used to allow users to access data via HMI interface after it is collected from remote field sensors, actuators, controllers and other communication devices.

IoT is also used for purposes of smart metering. Smart metering is used in smart grid implementations to transform traditional energy infrastructure. The use of IoT in smart metering helps to reduce operating costs by operating metering operations remotely, by improving forecasting and reducing energy theft and loss.

## Mobile Devices

Mobile devices have empowered people perhaps beyond what computers did back when the latter became commodities available to almost everyone. They are evolving at a faster pace every year, simulating many, if not all, the functions of a desktop.

Oil, Gas and Electricity companies are aware of this, and they use mobile technology that allows the use of specialized applications in fields such as health, safety and environment (HSE), therefore dramatically reduce the possibilities of harm to their on-field employees in hazardous situations.

In regard with mobile platform technologies, 75% of Oil and Gas executives have expressed to EY that they are currently implementing them, which shows that such technologies are among the top 3 currently being implemented, alongside Cloud and Advanced analytics.

## Blockchain

Blockchain technology has proven to be quite useful, for privates and governments alike. Certainly, its use across a wide variety of industries has led Oil and Gas executives to turn their attention to investment in such technology, in order to unleash its full potential, as almost 48% of surveyed executives have expressed that they are planning to implement Blockchain solutions in the next 18 months.

The oil & gas sector is just starting to discover such potential. Due to the inherent security of the blockchain technology, oil & gas companies could establish a better control of data and information and provide consistency - particularly around the accounting of hydrocarbons, supply and demand, and materials movement.

As the sector increasingly leverages sensor technology across upstream and downstream assets, Blockchain can help compress process time and reactivity to an event by connecting assets directly to service providers without the need of human intervention.

Furthermore, its use in smart contracts could also transform the supply chain, allowing for increased process efficiency and compliance.

Additionally, due to Blockchain's very own nature, it could give national oil companies (NOCs) genuine traceability of their goods, which could have an impact beyond financial matters, such as an increase in confidence in the relations with stakeholders of the citizenship (especially, native communities).

In the same way in the Electricity Industry, Blockchain is seen as a useful tool when managing and controlling their production of clean energies. As many corporations control



their production by certificates to differentiate clean energy from fossil fuels based energy and sometimes such management becomes burdensome when participating in a transaction, Blockchain can be used to keep track of such certificates by means of generating and saving data in a more efficient way. Therefore, the security that Blockchain provides can be utilized by sellers and buyers in order to access such information at a lower transactional cost.

In the Latin American Region, Chile is already one of the beneficiaries of the digital disruption. In April 2019, the Ministry of Economy and Finance of Chile announced that, in partnership with the World Bank, it was developing an initiative to implement the use of modern technologies such as the blockchain for the trade of its emissions. In this regard, they pointed out that this initiative would generate necessary procedures and incentives to upload energy projects to the “Warehouse” platform that generate significant volumes of emissions reduction in the energy sector.

Hopefully, Peru will be one of the next countries to enjoy the benefits of the digital revolution. As such, for this purpose not only does the Peruvian regulatory regime need to change and match the new trends but corporations should also reevaluate how they operate, decide whether or not they will fit and feel comfortable in the market once their business model changes, and finally begin the process of change by aligning with new trends at the pace that fits them and its stakeholders the best.



# Tax and legal framework

Regulatory terms

Fiscal terms

Fiscal rules



# A

## Regulatory terms

# 1

## Oil & gas

### Hydrocarbons agreements

Oil & gas exploration and production activities are conducted under license or service contracts granted by the Government.

Under a license contract, the investor pays a royalty, whereas under a service contract, the Government pays remuneration to the contractor.

As stated by the Peruvian Constitution and the Organic Law for Hydrocarbons, a license contract does not imply a transfer or lease of property over the area of exploration or exploitation.

By virtue of the license contract, the contractor acquires the authorization to explore or to exploit hydrocarbons in a determined area, and Perupetro (the entity that holds the Peruvian state interest) transfers the property right in the extracted hydrocarbons to the contractor, who must pay a royalty to the state.

License and service contracts are approved by supreme decree issued by the Peruvian Ministry of Economy and Finance, and the Peruvian Ministry of Energy and Mines, and could only be modified by a written agreement signed by the parties.



Before initiating any negotiation, every oil & gas company must be duly qualified by Perupetro, in order to determine if it fulfills all the requirements needed to develop exploration and production activities under the contract modalities mentioned above.

It must be noted that the terms and conditions under which license contracts are negotiated and subscribed remain the same for onshore and offshore blocks.

On the other hand, contractors will have the right to use water, grit, wood, and other construction materials, and to negotiate permissions, easements and the right to use water and surface rights, that necessarily result in carrying out their activities. If the exercise of such rights generates economic damages, they must be compensated.

Regarding the subscription of contracts, Perupetro has begun revising the scope of the current applicable regulations related to hydrocarbon royalties, qualification requirements for oil & gas companies and the terms of the license contracts to be signed with companies.

### Technical evaluation agreements

The Peruvian Organic Hydrocarbons Law empowers Perupetro to enter into technical evaluation agreements with previously qualified oil companies. These agreements were created as a mechanism to promote investment in hydrocarbons, in addition to encouraging and increasing knowledge of the potential of the areas offered for investment.

The technical evaluation agreements are signed in order to carry out comprehensive geological-geophysical work and studies under

international quality standards to be carried out in areas that have little information or that require additional work and studies to finally evaluate the subscription of a license contract for the exploration and exploitation of hydrocarbons. The main benefit for the oil company that executed the technical evaluation agreement is the granting of the right of first option to sign a contract for the exploration and exploitation of hydrocarbons in the designated area.

In this context, according to the classification of the area requested by the oil company, it can enter into the following agreement modalities: (i) Technical Evaluation Agreement (CET) and (ii) Technical Evaluation Agreement (CET-CONTRACT). In this way, the CET will be applicable for the areas classified as frontier while the CET-CONTRACT will be applicable for the areas classified as Semi-explored by Perupetro. In addition, it is important to consider that the areas called frontier are those for which insufficient geological knowledge is available to determine their hydrocarbon potential, and the Semi-explored areas are those that have a hydrocarbon potential but this is not well defined and have limitations in access and facilities transport.

However, the process of qualification of an oil company that requests the subscription of a technical evaluation agreement, will be carried out in 10 days counted from the presentation of the request. In said procedure, company's technical, legal, economic and financial capacity will be mainly evaluated.

As of May 2020, 9 technical evaluation agreements are in force, 8 of them under CET-CONTRACT modality and only 1 under CET modality.



## Upstream, midstream and downstream activities

The activities performed in the hydrocarbon sector are divided into three stages: "upstream", "midstream" and "downstream". The activities included in the "upstream" stage comprise the exploration and exploitation of hydrocarbon deposits, while the "midstream" and "downstream" stages refer to refining, natural gas processing, transportation, distribution and commercialization of oil, gas and by-products.

### Upstream Activities (\*)

#### ► Exploration phase

The exploration phase is aimed at discovering areas with oil potential. To reach that objective, oil companies must plan, execute and evaluate every type of geological, geophysical, and geochemical activity and carry out other studies, geophysical activities, drilling exploratory oil wells and other related and necessary activities for oil discoveries.

This phase will have a maximum duration of 7 years, counted from the effective date of the contract (60 days after the signing date) established on each contract.

This term can be divided into several periods as agreed to in the contract.

Notably, the Ministry of Energy and Mines can authorize an extension of three years for this stage, if the contractor has complied with the minimum working program established in the contract, and also commits to fulfill an additional working program that justifies such extension.

The contractor shall be responsible for providing the technical and economic resources required for the execution of the operations of this phase.

#### ► Exploitation phase

The exploitation phase is comprised of development and production activities related to oil & gas extraction, in order to transport it to relevant markets. These activities include, among others, drilling of exploitation wells, the construction of pipelines to transport the extracted hydrocarbon production and any other.

### Midstream Activities

These activities can be considered as a crucial part of the oil & gas sector activities, as they consist of the transport by pipelines, and storing of hydrocarbons. In order to start activities related to the transportation of hydrocarbons by pipelines, a company must be granted a concession, whilst it will only need to comply with specific requirements according to Peruvian regulations so as to store them.

Midstream related activities can also be related to the operation of gas processing plants and gas treatment and conditioning facilities in order to make it transportable, the operation of fuel pipelines systems, maritime transportation by tankers, and operating oil storage terminals.

Investment projects in gas processing facilities can be subject to the benefits granted to upstream projects. In this regard, a contract shall be signed by the investor and government, and it can only be modified by mutual agreement.

(\*) Peru's oil & gas Investment Guide is mainly focused on upstream activities

## Downstream Activities

### ► Refining

This activity involves the construction of industrial facilities, in which crude oil, natural gasoline or other hydrocarbon sources are transformed into fuel products, such as liquefied petroleum gas (LPG), gasoline, diesel and industrial fuels. Contractors must obtain an authorization from the General Hydrocarbons Bureau for executing such construction.

### Distribution and commercialization

Liquid fuels and other hydrocarbon byproducts obtained as a consequence of the activity of refinery are distributed to wholesalers, who in turn, dispatch them to oil stations, to retailers and/or direct consumers, etc. In the case of liquid hydrocarbon and similar hydrocarbon byproducts, contractors must obtain an authorization from the Ministry of Energy and Mines (MEM). In the case of natural gas, distribution must be granted by a concession.

## Government policies on the sale of natural gas

Contractors must consider that the authorization to explore or to exploit proven natural gas reserves requires them to guarantee the supply of the national market, for a specific period stated in the contract.

### Assignment of an oil interest

The contractor can partially or totally transfer its interest or associate with any other qualified investor, provided that the operation is approved by the Ministry of Energy and Mines (MEM).

The transfer of the contractor's interest will lead to the maintenance of the same responsibilities regarding the guarantees and obligations assumed by the contractor. In this sense, the stabilized tax regime applicable to the contractor will also apply to the transferee.

## Draft O&G Law Amendments

Draft Law Amendment No. 2145 (the Draft Law) proposes changes to the Hydrocarbons Law in force, which was last amended in 2004.

Currently, the aforementioned Draft Law is under review by Congress' Committees and Government authorities, in order to pass a Final Draft to Congress for discussion and balloting.

The Draft Law proposes, among others, the following changes:

- Validity term of oil contracts extended from 30 to 40 years.
- Extension of exploration phase from 7 to 10 years.
- Term of the contracts could be extended up to 20 additional years after termination.
- Promotional royalties for investments in unexplored basins.

Notwithstanding the changes stated above, the Draft Law also includes provisions regarding the reinforcement of PERUPETRO's role, making it more active not only at the negotiation stage, but also during the term of the Contracts. Thus, PERUPETRO will acquire management faculties within the industry, which will include the faculty to draft standard and custom Contracts, as well as the power to perform a greater promotional and social role.

Likewise, in March 2019, the substitute text of the hydrocarbons law in force that had been presented on November 17, 2017, was re-entered into Peruvian Congress.



# 2

## Electricity

### Keywords

#### Electricity power

It is the amount of energy that can be delivered or distributed to a system in a simple unit of time. Power is registered in Watts, the active power unit of the International System of Units. 1 Watt is equivalent to 1 Joule (international unit of energy or work) per second (time unit). As such, power indicates the amount of energy that can be delivered each second for the consumption of electric systems (as the SEIN).

The power electric appliances are set in Watts if they are low powered, but if they have medium or high powered, their power is set in KiloWatts (kW), which is equivalent to 1,000 Watts or MegaWatts (mW), equivalent to 1'000,000 Watts.

### Electric systems

#### ► Interconnected Electrical National System - SEIN

Group of transmission lines and sub-stations that are interconnected between them and with generation plants to allow the transference of electric energy between two or more generation systems.

#### ► Isolated System

Electric system that is not connected to the SEIN.

### Energy Matrix

The Energy Matrix is a unique market model that shows the new circumstances of the energetic system. Each country and/or region develops an Energy Matrix depending on its own policies, challenges and objectives.

### Renewable Energy Source - RER

Consists of energy sources such as biomass, wind power, solar power, geothermal sources and tidal energy. In the case of hydraulic energy, such source shall be considered as RER if its installed capacity is less than 20MW.

### Geothermal source and by-products

Geothermal sources refer to energy that comes from underground and includes geothermal fluids of high and low temperatures. By-products of this kind of energy refer to minerals in solution and other products that can be obtained from natural thermal fluids, brines, gases and fumes located underground. These by-products do not include hydrocarbons.

## Electricity industry activities

### Generation

Activity that consists in the production of electricity by means of the transformation of a primary source like water or a thermic one such as natural gas, petroleum, carbon, diesel, among others. Renewable sources like wind, geothermal heat, solar radiation, and biomass, are also used for the production of electricity. According to Peruvian regulations, this activity does not qualify as a public service; nor is it a natural monopoly. Generators could be considered as energy traders.

### Transmission

Activity that consists in the transport of energy from generation plants to consumption centers. This activity uses high voltage grids (30V. and 60,000V.) and extra high voltage grids (138,000V. and 220,000V.).

According to the Electric Concessions Law there are two kinds of transmission system:

- ▶ Primary, which is paid by all the users of the electric system despite the active or inactive use of the system, and the
- ▶ Secondary, which is paid only by the effective users of the system, that is consumers and generators.

Law No. 28832, added two kinds of additional transmission systems:

- ▶ Guaranteed system, which is subject to bidding depending on the Transmission Plan approved by the Ministry of Energy and Mining, and the
- ▶ Complementary system, which is developed under the lead of one or more agents like complement of the Transmission Plan.

### Distribution

Activity that consists of the transformation of high or extra high voltage energy to lower voltage of 30,000V or less in order to distribute such energy to final users. According to Peruvian regulations, the distribution activity comprises the grids operation and the commercialization of energy to regulated users and free users.

## Granting rights in the electric sector

### Definitive concession

This title is required for the utilization of public goods and for the owning of the right of way for the construction and operation of generation plants, sub-stations, transmission lines and grids for the serving of electricity to the public.

According to the Electric Concessions Law, its granting is required for the development of the following activities:

- ▶ Generation of electric energy that is based on hydraulic sources whenever the installed capacity exceeds 500Kw.
- ▶ Transmission of electric energy when its facilities could affect State property and/or require a right of way.
- ▶ Distribution of electric energy to be provided as a public service when the demand exceeds 500Kw.
- ▶ Generation of energy with energetic renewable sources when installed capacity exceeds 500Kw.



## Authorizations

Consists in the permission that should be requested for the development of thermoelectric generation activities whenever the installed capacity of the plan exceeds 500KW.

### Temporary concession

This title grants the right to use public goods and the temporary right of way. The owner of this kind of concession is responsible for the execution of viability studies on generation plants and sub-stations or transmission lines; also, the owner has a preferential right when requesting the correspondent definitive concession.

### Award of a ProInversión project

ProInversión is authorized to award pre-designed projects (via concessions) related to generation, transmission and distribution of energy. This entity is also entitled to evaluate and award private initiative projects regarding the activities developed in the electricity sector according to the applicable laws.

### Long-term Electricity Supply

These are bidding contracts for the supply of electricity between Regulated Users or Free Users and electricity distribution companies, which are regulated and supervised by OSINERGMIN. The purpose of this type of bidding is due to preventive measures on the part of the Peruvian State to achieve the timely supply of electricity to specific users, in a space where free competition is not affected or a risk of dominance is generated.

## Cold Generation Reserve Concession Contracts

These are projects that have a national need and priority execution in Peru, because they have the function of ensuring the availability of power and energy in the country's electrical system in emergency situations in the supply of electricity. They are supervised by the OSINERGMIN (Electric Supervision Department).

### Free and Regulated Users

In accordance with the Electricity Regulation, a classification is established for electrical users in free and regulated. From a consumption equal to or greater than 200 KW, users have the option of accessing the classification of free users and with it the possibility of negotiating their electricity rates with electricity generating companies; while users with consumption less than 200 KW are classified as regulated users, that is, they are subject to tariff schedules approved by OSINERGMIN, however, if they are industrial or commercial consumers, they can choose a medium voltage rate that is less than the low voltage tariff assigned to residential consumers.



## Granting rights for electric generation with renewable energy (RER)

### RER generation auctions

#### Auction

Public tender process hosted by the OSINERGMIN to assign the adjudication rate to projects of RER generation up to the limit of the required energy. This process is conducted according to the document prepared and approved by the MINEM and ends in the closing date.

#### Required energy

This is the total amount of annual energy in MWh that is being auctioned. The required energy amount is established by the MINEM for each kind of RER on the basis of the estimated national consumption for the year.

#### Adjudication rate

Consists of the offer made in USD/MWh by interested corporations during the Auction. This rate guarantees each awarded corporation net energy injections up to the limit of the offered and adjudicated energy. Offered rates are not modifiable and are valid only during the date in which commercial operations start until the due date of the contract, being adjustable by the correction factor and the update formula agreed in the conditions of the Auction.

#### Closing date

The day in which all the requirements for the signing of the Contract are met according to the conditions stated in the conditions of the Auction. On this date, the Auction also ends.

### Contract for the supply of renewable energy

The contract signed by awarded corporations once the Auction is ended. This document establishes the liabilities and conditions related to the construction, operation, energy supply and rates regime applicable to RER generation plants. This document includes the conditions of the Auction. This Contract starts on the closing date and is valid until its end date.

#### Commercial Operation Phase

Actual date of entry into commercial operation of each RER generation plant, certified by the Economic Operation Committee of the National Interconnected System (COES) in accordance with its Procedures.

### Policies for the commercialization of energy and power generated by RER

Electricity generated by RER has priority in the daily deliver of energy made by the Economic Operation Committee of the National Interconnected System (COES). As awarded corporations have guaranteed transmission lines according to its offer, in the case of extra capacity in the transmission or distribution systems of the SEIN, such corporations will have preferential access to them.

In order to sell the production of RER electricity, this energy must be placed in the short-term market subject to its price. This price ought to be complemented with a premium to be determined by OSINERGMIN in case the marginal cost is lower than the estimated price.

Regarding the aforementioned price and premium, OSINERGMIN is the entity that will determine such amounts according to each kind of energetic source.





## Granting geothermal rights

### Geothermal sources authorization

This authorization allows the execution of exploration activities in a specific area of the Peruvian territory in order to search for geothermal sources. Holders of this authorization has preferential right for the granting of a concession. This authorization is valid for 3 years and can be extended for 2 additional years. The request for a concession in the explored area can be placed at any moment of this term.

### Geothermal sources concession

The MINEM grants this kind of concessions in order to allow the execution of exploitation activities in a specific area where sources have been discovered during the exploration phase. These concessions are valid for 30 years from the publication of the correspondent Contract in El Peruano (state newspaper). Under some specific conditions, the term of this kind of concessions can be extended.

## Climate change actions framework Law

The diversification of the energy matrix guided by a greater use of clean energy (RER) requires a joint action of all sectors of the country, therefore, in April of 2018 the Climate change actions framework Law was approved. The purpose of this Law is to establish principles, approaches and general provisions to coordinate, articulate, design, execute, evaluate and disseminate public policies in order to reduce the country's vulnerability to climate change, taking advantage of opportunities for low carbon growth. In this regard, we list some useful concepts below:

### Climate change

Changes in the climate due to direct and indirect action of human beings, causing changes in the composition of the atmosphere, increasing the natural variability of the climate.

### Nationally Determined Contributions (NDC)

These are the contributions taken by the Government to deal with climate change, in the framework of the Paris Agreement, ratified by the Peruvian Government in 2016. For these purposes, adaptation and mitigation goals are formulated, involving all sectors and actors of society around common objectives for the country's sustainability.

### Adaptation to climate change

Process of adjustment to the current and foreseen climate and to its effects on environmental and human systems in order to moderate or avoid consequential damages or, in some cases, take advantage of its effects.



## Mitigation of climate change

Human intervention to reduce the sources of greenhouse effect emissions or to enhance sinks (processes, mechanisms and activities that eliminate gases in the atmosphere) in order to limit the effects of climate change.

### Resilience

Capacity of social, economic and environmental systems to face a dangerous situation, trend or alteration by reorganizing or giving an answer in such way that its characteristics, structure, identity or special functions are maintained, and its capacity of adaptation, learning and transformation are preserved.

### Nationally Appropriate Mitigation Actions (NAMA)

These are actions carried out by developing countries that aim to reduce significant amounts of greenhouse gas (GHG) emissions and that are prepared under national government initiatives. Which could be actions or policies aimed at transformational change within an economic sector, or actions in all sectors for a broader national approach.

## Energy efficiency

In 2000, the Law No. 27345, Law for the Promotion of Efficient Energy Use, stated that it is in the national interest to promote the efficient use of energy to ensure the supply of energy, protect the consumer, promote the competitiveness of the national economy and reduce the negative environmental impact of the use and consumption of energy. Later, in 2017, with the enacted of the Supreme Decree No. 009-2017-EM, it is specified that the concept "Energy Efficiency" is the ratio between the energy used and the total energy used in any process of the energy chain.

### Energy Storage Systems (ESS)

The advancement of technology has allowed electrical energy to be transformed into other types of energy, facilitating its storage in situations where production is greater than consumption. Likewise, it facilitates the operation of the electrical system, increasing levels of efficiency, management and cost reduction, even being able to replace an emergency power plant, with a faster response time than that of the commissioning of a generating unit and at a cost minor installation.

### Distributed Generation

According to Law No. 28832 - Law to ensure the efficient development of the Electricity Generation was published, in which distributed generation is defined as an electrical generation installation directly connected to the networks of an electric distribution dealer.



## Energy Efficiency Labeling (EEL)

Through Supreme Decree No. 009-2017-EM was approved the Technical Regulation on the Labeling of Energy Efficiency for Energy Equipment, the EEL is defined as the information regarding the energy consumption and the energy efficiency range of the energy equipment, which must be contained in a label and located on the container, packaging, advertising or body of the energy equipment in a visible place to the consumer. It can be printed or attached to the device and must not be removed from the product until after it have been purchased by the consumer.

## Electromobility

Referred to land transport that makes use of one or more electric motors to generate locomotion, composed of Electric Vehicles, Plug-in Hybrid Vehicles and Electric Vehicles with Extended Autonomy or other land transport vehicles that obtain all or part of their electrical energy from a system rechargeable energy storage.

## Charging infrastructure

Station installed to provide battery charging for electric mobility.

## Interoperability in electric mobility

It refers to the ability to interact and exchange data and information between the different components of the electric mobility system (charging infrastructure, vehicles and the electricity grid) using standardized and widely recognized protocols. In electric mobility, the capacity makes it possible to facilitate compatibility and integration between charging infrastructures and, in turn, an adequate management of the charging system.



# B

## Peruvian general fiscal terms

The economic attractiveness of a country is strongly influenced by the fiscal system that applies to oil (especially upstream), gas and energy activities. If tailored properly, fiscal terms are able to achieve the overall objective of collecting an adequate share of the economic benefit for the government generated by these industries, while maintaining high levels of investments in the activities related to them.

Keeping in mind those objectives and considering that the levels of investment required in the early stages of those industries in itself involves a great associated risk, Peru has established a fiscal framework that promotes all types of private initiatives, and in parallel special tax incentives in order to reduce the tax impact of oil, gas and energy activities.

### Basic aspects

Resident companies (incorporated in Peru), are subject to income tax on their worldwide taxable income. Branches and permanent establishments of foreign companies that are located in Peru and nonresident entities are taxed on income from Peruvian source only. A permanent establishment of a nonresident entity exists in Peru in the following cases:

1. Fixed place of business where the nonresident entity performs its activities, totally or partially. For example: place of management, branches, agencies, offices, factories, workshops, warehouses, mines, oil and gas wells, quarries or any other place relating to the exploration or exploitation of natural resources.
2. A building site or construction or installation project, as well as the supervisory activities related to them, for more than 183 days within any 12-month period.

3. The services, when are rendered in Peruvian territory for the same project or related projects, for a period or periods aggregating more than 183 days within any 12-month period.
4. When a person acts in Peru on behalf of a nonresident entity and has and habitually exercises an authority to: (i) enter into contracts on behalf of the nonresident entity; (ii) transfer property or the use of goods/assets owned by the nonresident entity; or (iii) enter into contracts for the rendering of services by the nonresident entity.

Taxable income is generally computed by reducing the gross revenue by cost of goods sold and all expenses necessary to produce the income or maintain its source. Certain types of revenue, however, must be computed as specified in the tax law and some expenses are not fully deductible for tax purposes. Business transactions must be recorded in legally authorized accounting books that must be in full compliance with the International Accounting Standards (IAS). Contractors (Peruvian corporations and branches) -as an exception- are entitled to keep their accounting records in foreign currency as long as they receive and/or make foreign direct investment in foreign currency, according the requirements established by Supreme Decree No. 151-2002-EF and other rules for specific industries as mining, hydrocarbons and geothermal resources, but taxes must be paid in Peruvian Soles (S/).

In addition, income and expenses are recognized on an accrual basis, concept that was developed through Legislative Decree No. 1425, which entered into force on January 1, 2019.

According to the general concept of accrual introduced by the decree, revenues accrue when the substantial events for their generation have occurred, provided that the right to obtain them is not subject to condition, regardless of when they are collected.

Notwithstanding the above, special rules will apply for the accrual of revenues regarding certain transactions (sales of goods, services, lease of goods, among others).

The general corporate income tax rate for fiscal year 2017 (onwards) is 29.5%. In addition to this, Dividend Tax at a rate of 5% is imposed on distributions of profits to nonresidents and individuals by resident companies and by branches, permanent establishments and agencies of foreign companies.

This tax is generally withheld at its source. However, under certain circumstances, the company must pay the tax directly.

The mandatory closing date for business enterprises is December 31st. Tax returns must be filed between March and April, according to the schedule established by the Tax Administration. Taxes and related penalties not paid by the due dates are subject to interest charges, which are not deductible for corporate income tax purposes.



## Advanced payments

Companies and branches must make monthly advance payments of their annual corporate income tax. Advanced payments will be equal to the greater amount that results from comparing the quotas obtained from the application of the following methods:

- **Percentage method:** by applying 1.5% to the total net revenue of the month.
- **Ratio method:** by dividing the tax calculated in the previous year by the total accrued net revenue of the same year and applying the ratio to the net accrued revenue of the month.

Income Tax advanced payments apply as credit against the annual income tax obligation or they are refunded at the end of the fiscal year (once the tax return is filed), if requested by the taxpayer.

## Capital gains

Capital gains are treated as ordinary income. Under this consideration, capital gains determined by resident entities are subject to a 29.5% tax rate.

Since January 1, 2016, capital gains derived from the sale of shares and other securities representing shares (i.e. ADR, GDR, and ETF) carried out through the Lima Stock Exchange (LSE) are Income Tax exempt. To claim the exemption, the taxpayer and its related parties must not transfer more than 10% of the shares or "securities that represent shares" issued by the company whose shares are sold.

Shares should meet a liquidity threshold: 180 working days prior to their sale, they should have been traded at least in 9 days for debt securities, including bonds convertible into shares, and 81 days for other securities (not necessarily consecutive) for a daily fee of USD7,371 (equivalent to 6 Tax Units).

Under the latest Tax Reform, effective since January 2020, the aforementioned exemption was extended to December 31, 2022.

Also, by means of this amendment other securities (bonds, participation certificates in Mutual Investment Funds, Real Estate Investment Trusts (REITs), Securitization Trusts for the Investment in Income of Real State, and Negotiable Invoices) have been included in the scope of this exemption, provided that they are listed and traded on the LSE, and (depending on each case) fulfill the other requirements states in Law No. 30341 and its regulations.



## Capital allowances

### Trade or business expenses

In general terms, all corporate expenses incurred in the generation of taxable income or the maintenance of its source are deductible for corporate income tax purposes. This rule is subject to certain exceptions and limitations expressly provided in the Income Tax Law.

It should be noted that since fiscal year 2019, costs or expenses for services received from nonresident companies (whether related or not) must be paid prior to the submission of the tax return to be considered deductible.

### Tax havens and preferential tax regimes

In Peru, resident entities cannot deduct, for income tax purposes, the expenses derived from transactions performed with individuals or entities that qualify as:

1. Residents of non-cooperative countries or territories with low or no taxation;
2. Permanent establishments located or established in non-cooperative countries or territories with low or no taxation; or
3. That obtain income or profits through a non-cooperative country or territory with low or no taxation; or subject to a preferential tax regime for said operations.

A jurisdiction qualifies as a tax haven or non-cooperative jurisdiction, if at least one of the following requirements is met:

- No transparency at a legal, regulatory or administrative level.
- No exchange of information, as well as the existence of legal provisions or administrative practices limiting the exchange of information.

- No requirement of a substantive local presence, real activities or economic substance.
- Low or no taxation.

Additionally, on December 2018, the Ministry of Economy and Finance issued the Supreme Decree 340-2018-EF (SD 340-2018-EF), which contains regulations that include Peru's blacklist of countries and jurisdictions that are considered tax havens or non-cooperative jurisdictions, as well as conditions for being added or removed from the list.

### Tax depreciation

Depreciation rates apply to the acquisition cost of fixed assets. The following are some of the maximum annual depreciation rates allowed by Law:

Data processing equipment	25%
Machinery and equipment for construction, mining and oil activities	20%
Vehicles	20%
Machinery and equipment for other activities	10%
Buildings and constructions*	5%*
Other fixed assets	10%

\*This is a fixed rate rather than a maximum rate.

Taxpayers may apply any depreciation method for their fixed assets other than buildings and constructions, if the resulting depreciation rate does not exceed the maximum rates stated above. In general, except for buildings and constructions, tax depreciation must match financial depreciation.



## Valuation of inventory

Inventory is valued for tax purposes at the acquisition or production cost. Financial charges are not allowed to be part of the cost. Taxpayers may choose any of the following methods to calculate annual inventory for tax purposes, provided that the method is consistently used: first-in, first-out (FIFO), daily, monthly or annual average, specific identification, detailed inventory, and basic inventory.

## Pre-operative expenses

Pre-operative expenses may either be deducted in the year the production commences or may be amortized over a period of up to ten years from the year in which production commences.

## Early recovery VAT system

The early recovery VAT system allows obtaining an early recovery of the VAT paid on the acquisition of goods, services, construction contracts, importations, etc.; executed for carrying out taxable operations or exports. VAT is reimbursed through negotiable credit notes (which are redeemable in exchange for a check). This system prevents waiting to recover such amount from a client when the invoice, including VAT, for the sales of goods, services or construction contracts is issued to the client.

In other words, this regime provides relief of financial costs (cost of money) for projects with a significant pre-operating stage and for which no advance invoice (transferring the VAT burden) can be issued periodically to the client.

The law provides a general and a specific early recovery system; each one with its own scope and requirements:

### ► General early recovery VAT system:

This regime applies to companies that are in a preoperative stage, allowing them to recover the VAT paid on the acquisition of capital goods. This regime does not require companies to sign an investment contract, nor specific amount of investment.

### ► Specific early recover VAT system: This regime applies to companies that are in a preoperative stage, and that also meet the following conditions: (i) they enter into investment contracts with Peruvian government, to invest in economic Industry; and (ii) they make a minimum investment commitment of USD5 million for projects with a preoperative phase of at least 2 years.

If the previous conditions are met, companies will be able to recover VAT paid on the acquisition or imports of capital or intermediate goods, services, and construction contracts. The use of one system does not preclude the possibility of using the other, as they have a different scope (items).

By the most recent amendment made by Legislative Decree 1423, new investment projects seeking to make use of Special Early Recovery System will not enter into an Investment Agreement. Instead, they must file an affidavit with ProInversión containing the information on the Project.

Finally, the new special system authorizing microenterprises engaged in production activities to enjoy the refund of the tax credit paid on imports and/or local purchases of new capital goods not exhausted within the three (3) consecutive months following the date of registration of the respective payment receipt in the Purchase Journal.



## Definitive recovery VAT system

Under this regime, VAT paid on the acquisition of goods and services used directly in oil & gas exploration activities can be recovered without having to wait until a commercial discovery takes place or production begins. This regime will be applicable from the contract signing date until the end of the term of the exploration phase.

Goods and services included in the regime should be incorporated in a list and approved by the Ministry of Energy and Mines. The validity of this regime has been extended until December 31, 2022.

## Amazon promotion investment regime

- ▶ VAT and ISC exemption on the sale of hydrocarbon products: oil & gas companies (principally those dedicated to oil refining and storage activities) located in the regions of Loreto, Ucayali and Madre de Dios will be VAT and ISC exempted when selling oil, natural gas and by-products to retailers or to direct consumers. For this purpose, it is required that retailers must also be located in the regions of Loreto, Ucayali and Madre de Dios, and should perceive third category income mainly from commercializing oil, natural gas and/or its byproducts. Direct consumers include corporations and individuals located in the regions of Loreto, Ucayali and Madre de Dios, that perceive third category income due to activities different from hydrocarbon commercialization.
- ▶ The law also states that retailers will only be allowed to sell the exempted hydrocarbon product to the public, or for its own consumption; and that the direct consumer will also be limited to use the exempted hydrocarbon product only for the activities carried out in the regions of Loreto, Ucayali and Madre de Dios.

## Withholding taxes

### Dividends

A dividend tax at a rate of 5% applies to profits distributed to nonresidents and individuals. The dividend tax applies to distributions by Peruvian companies, as well as to distributions made by Peruvian branches, permanent establishments and agencies from foreign companies. Peruvian Income Tax Law specifies various transactions that are considered as profit distributions for the purposes of the application of the dividend tax, including the distribution of cash or assets, the reduction of the capital of the company or the liquidation of the company.

This law also provides that if a resident company or branch, permanent establishment or agency pays expenses that are not subject to further tax control or does not report any income, the amount of the payment or income will be subject to dividend tax (i.e. it will be treated as a deemed dividend distribution).

It should be noted that the effect of the reduction of the dividend tax rate combined with the increase of the corporate tax rate results in a total tax burden of 33.03% (approximately).



## Interest

Interest paid to nonresidents is generally subject to a withholding tax rate of 30%. For interest paid to unaffiliated foreign lenders, the rate is reduced to 4.99% if all the following conditions are satisfied:

- ▶ For loans in cash, the proceeds of the loan are brought into Peru as foreign currency through local banks or are used to finance the import of goods.
- ▶ The proceeds of the loan are used for business purposes in Peru.
- ▶ The participation of the foreign bank is not primarily intended to avoid the tax treatment applicable to transactions between related parties (i.e. the use of back-to-back loans is consequently precluded).
- ▶ The interest rate does not exceed LIBOR plus 7 points.

## Technical Assistance Services

Payments for technical assistance services used within Peru are subject to withholding tax at an effective rate of 15%, regardless of the country the services are rendered. To ensure the application of the 15% rate, the local service recipient must obtain and present to the Tax Authorities upon request a report issued by an audit firm certifying that the technical assistance was effectively provided. However, this is only required when the fees under the corresponding agreement for the technical assistance exceed 140 Tax Units (equivalent to S/602,000 or USD172,000).

## Royalties

Peruvian source royalties paid for the use of intangible property are subject to withholding tax at an effective rate of 30%.

### Indirect transfer of shares

Law No. 29757, which amended Law No. 29663 introduced a new category of Peruvian sourced income that may lead to a scenario under which a nonresident will be levied with income tax. Broadly, Law No. 29663 provides that 30% income tax is imposed on any capital gain realized upon the transfer of the shares of a company located outside Peru that, directly or indirectly, holds shares (or participation interests) in one or more Peruvian subsidiaries (i.e. an "indirect transfer") on one of the following situations:

- ▶ Where 50% or more of the fair market value of the nonresident holding company's shares is derived from the shares or participations representing the equity capital of one or more Peruvian subsidiaries at any time within the 12 months preceding the disposition.
- ▶ The overseas holding company is located in a tax haven or low- tax jurisdiction, unless it can be adequately demonstrated that the scenario described above did not exist.

Law No. 29757 clarifies that the transaction described in the preceding paragraph will only be taxable where shares or participation interests representing 10% or more of the nonresident holding company's equity capital are transferred within the 12-month period. This means that the transfer of shares (or participations) representing less than 10% of the nonresident holding company's equity



capital are not subject to taxation in Peru even when 50% or more of the fair market value of those shares is derived from the shares (or participations) representing the equity capital of one or more Peruvian subsidiaries at any time within the 12 months preceding the dispositions.

Likewise, regulations have been established for specific cases involving the indirect disposal of shares, such as: i) the presumption of indirect disposal via dilution of shareholders in nonresident companies and distribution of dividends by nonresident companies; ii) when the total amount of the shares or ownership interests in legal entities resident in the country is equal to or greater than forty thousand (40,000) Tax Units (S/172 million or approximately USD50 million); iii) if the shares or ownership interests being disposed of, or the new shares or ownership interests issued as result of a capital stock increase in a non-cooperative jurisdiction or tax haven, among other cases.

Under certain circumstances, the Peruvian issuer shall be held jointly and severally liable, unless the nonresident seller established a branch in the country.

### Controlled Foreign Corporation Rules (CFC Rules)

The “International Fiscal Transparency Regime” is applicable to all Peruvian residents who own a “controlled foreign corporation” (CFC). Under these rules, passive income earned by CFC's in other jurisdictions, must be included and recognized in the taxable income of resident taxpayers in Peru, even though there has been no effective distribution.

A non-resident subsidiary company will constitute a CFC of a Peruvian company if:

- ▶ The Peruvian company owns more than 50 percent of the subsidiary's equity, economic value or the voting rights.
- ▶ The non-resident entity must be a resident of either: i) a tax haven jurisdiction; or, ii) a country in which passive income is either not subject to CIT or is subject to a CIT that is equal or less than 75% of the CIT that would have been applicable in Peru.

For the application of this Regime, the Law has established an exhaustive list of items that qualify as passive income (i.e. dividends, interest, royalties, capital gains from the sale of properties and securities, etc.).

### Tax treaties

Peru has entered a multilateral tax treaty with the Andean Community countries (Bolivia, Colombia and Ecuador), which calls for exclusive taxation at source and double tax treaties with Brazil, Chile, Canada, Mexico, South Korea, Portugal, Switzerland and Japan.

Some existing treaties are still under renegotiation and others are in various stages of negotiation with countries such as France, Italy, Thailand, Sweden, Singapore and the UK.

Except for the double tax treaty with the other Andean Community countries, tax treaties entered by Peru generally follow the OECD Model, although they incorporate provisions from the UN Model, to give more weight to the source principle than does the OECD Model.

Peru executed the Multilateral Convention to Implement Tax Treaty Related Measures to Prevent Base Erosion and Profit Shifting, negotiated within the framework of OECD G20 BEPS Project, which is pending ratification.



## Tax Credit due to Taxes Paid Abroad

Taxes effectively paid abroad may be offset against Peruvian income tax, even if there is no double taxation treaty, provided that the amount resulting from the application of an average taxpayer rate for income obtained abroad is not exceeded.

The credit not applied in a fiscal year cannot be offset during subsequent or prior fiscal years, nor may it be refunded.

Starting on January 1, 2019, under certain conditions, credits may be deducted not only in the case of income tax paid abroad, as levied on the distribution of dividends (direct credit), but also the tax levied on the business activities of said subsidiary (first-tier indirect credit) and even that levied on the business activities of the latter's subsidiaries (second-tier indirect credit).

The indirect credit may only be claimed if certain requirements are met, such as an ownership interest of at least ten percent (10%) in the respective subsidiary over the course of at least twelve (12) months. Additionally, the second-tier subsidiary must: (i) be a resident of or domiciled in a country with which Peru has entered into an information exchange agreement; or (ii) be a resident of or domiciled in the same country as the corporation that distributes dividends to the Peruvian corporation.

The application of the indirect credit shall not include the income tax paid abroad by corporations residing in non-cooperative countries or territories or countries or territories with little or no taxation, or rent, income or earnings subject to a preferential income regime.

## Financing considerations

### Thin capitalization rules

Interest paid by resident taxpayers to related or associated companies is not income tax deductible in the portion that exceeds the result of applying a coefficient (debt/net equity ratio) of "3/1" at the close of the immediately preceding fiscal year.

Until 2020, the foregoing rule has been amended to limit deductibility of interest on financing by unrelated parties.

Starting fiscal year 2021, the deduction of interest on financing (whether from related or unrelated parties) shall only be allowed for an amount of up to 30% of the EBITDA for the previous fiscal year. This concept has a specific definition for the purposes of this law (adjusted net income). Nondeductible interest may be carried forwards for the next four (4) taxable fiscal years.

The foregoing rules shall not apply to financial and insurance companies; taxpayers whose income does not exceed of 2,500 Tax Units (approximately USD3,071,429); taxpayers developing infrastructure, public utility, and other projects through public-private partnerships or projects in assets; as well as debt from the issuing of nominative securities via initial public offering in Peru, provided they meet certain conditions (public offering, etc.).



## Indirect taxes

A 18% Value Added Tax (VAT) applies to the following transactions:

- ▶ Sale of goods within Peru.
- ▶ Services performed or used within Peru.
- ▶ Construction contracts performed within Peru.
- ▶ First sale of real estate by the builder.
- ▶ Importation of goods from outside Peru, regardless of the status of the importer.
- ▶ VAT paid upon acquisition of goods or services can be deducted from VAT related to the sale of finished products or services.

Exporters are reimbursed for any VAT paid on the acquisition of goods and services. Also, exporters can apply such reimbursement as a credit to offset VAT or income tax liabilities.

### Selective Consumption Tax (i.e. Luxury Tax or “Impuesto Selectivo al Consumo”)

The selective consumption tax (ISC) applies to luxury goods such as jewelry, cars, cigars, cigarettes, liquor, soft drinks, fuel, etc. ISC rates range from 10% to 100%, generally based on the CIF (imports) or sale value, depending on the goods. However, for certain goods, such as soft drinks and fuel, the ISC is calculated on a specific basis depending on the amount of goods sold or imported.

Taxable persons for ISC purchases are producers and economically related enterprises engaged in domestic sales of listed goods, importers of listed goods, importers and economically related enterprises engaged in domestic sales of listed goods and organizers of gambling activities.

Liability to ISC arises under the same rules that apply to VAT.

To avoid double taxation, a credit is granted for the ISC paid on imports and in other specific cases.

### Worker's profit

Employers are required to distribute a share of their profits among their employees. The rate depends on the company's activity, as follows:

- ▶ Fishing - 10%
- ▶ Telecom - 10%
- ▶ Industry - 10%
- ▶ Mining - 8%, including exploitation of coal mines; production of petroleum and natural gas; and extraction of iron, uranium, thorium, iron-free minerals, construction stone, clay, talc, sand and gravel, feldspar and salt.
- ▶ Commerce and restaurants - 8%
- ▶ Other - 5%, including farming, stockbreeding and forestry; production and distribution of electricity; production of gas; transportation services and services related to air transportation (such as travel agencies, storage and deposit); financial services of insurance and real estate; legal, audit and accounting activities; business consulting, consulting related to informatics and data processing; and advertising, health and medical services, and education.

Many oil & gas companies calculate this employee benefit using the 5% rate that applies to the “other” group of activities. This has been a matter of discussion at the judiciary level.

Profit sharing is calculated on pretax income, and the amount is deductible as an expense for determining income tax.



## General Anti-Avoidance Rule (GAAR)

As of May 7, 2019, the GAAR has entry into force. This rule was introduced in the Peruvian Tax Code to assist the Tax Administration in responding to situations of tax avoidance and simulated transactions.

Thus, when facing tax avoidance situations, the Tax Administration can coercively request the corresponding tax debt, reduce tax credits, tax losses or eliminate a tax benefit (including the restitution of the taxes unduly refunded).

To exercise powers under the GAAR, Tax Administration must determine that the taxpayer has:

- a) performed artificial or improper acts to achieve a specific tax result - whether individual or jointly with others; and,
- b) the use of such artificial or improper acts creates legal or economic results different than regular tax savings obtained from the routine or proper acts.

Among other regulations, joint liability was attributed to the legal representatives, and obligations were attributed to the directors.

To apply the GAAR in tax audits, Peruvian Tax Authority must follow a special procedure that requires the auditor to send the case to the Revision Committee, which will notify the taxpayer of a hearing and issue its opinion 30 days after the hearing, which is binding for the Peruvian Tax Authority and taxpayers.

## Other tax issues

### Tax Unit (UIT)

The UIT is the reference value employed for tax purposes to determine the taxable income, deductions and penalties, among others. This value is modified every year. For 2021, the UIT amounts to S/4,400.00 (USD1,257 aprox. at a S/3.5 exchange rate).

### Temporary net assets tax

The Temporary Net Assets Tax (ITAN) is equivalent to 0.40% of the value of total assets determined as of December 31st of the previous year over S/1,000,000. The amount paid is usable as credit against the Corporate Income Tax, or subject to refund.

Pre-operative entities are exempt from of this tax, during their first year of operations, but will be subject to the tax the following year.

### Tax on financial transactions

A 0.005% tax is generally imposed on debits and credits in Peruvian bank accounts.

- Stamp tax  
Not applicable.
- Exchange controls  
Not applicable.





## Transfer pricing

Peru has adopted transfer pricing guidelines, based on the arm's-length principle. The accepted methods are the comparable uncontrolled price (CUP) method, the resale price method, the cost plus method and the transactional net margin, as well as other related methods based on margins. The OECD guidelines can be used as a complementary source of interpretation. Advance Pricing Agreements (APA) may be negotiated with the tax authorities.

In Peru, these rules do not only apply to transactions between local and international related parties, but also to transactions with entities that reside in tax havens. Note that adjustments to the value agreed between the related parties would apply only in the case where the value agreed between the parties would lead to an underpayment of taxes.

One or more legal entities are related parties if one of them participates directly or indirectly in the management, control or equity of the other entity, or whenever the same person participates directly or indirectly in the direction, control or equity of diverse related entities.

On 31 December 2016, Peru published Legislative Decree No. 1312 amending the Peruvian transfer pricing (TP) reporting requirements by implementing the changes proposed by the OECD under BEPS Action 13 final report. The bill expands the TP documentation requirements by introducing an obligation to submit both a local file (2017) and a master file (2018), as well as the implementation of country-by-country reporting (2018), provided that certain revenue thresholds are reached. Failure to comply could result in penalties.

Regulations were enacted in November 2017 for the preparation and submission of the TP formal requirements. To a great extent, the contents of the local file, master file and the CbCR adopted in Peru are largely in line with the recommendations specified in Action 13 of the BEPS Action Plan. These three documents, taken together, will require taxpayers to articulate consistent TP positions and will provide SUNAT with useful information to assess TP risks. They will also help the Peruvian Tax Authorities in determining where audit resources can most effectively be deployed, and, in event audits are called for, provide information to commence target audit inquiries. This marks a new era of TP documentation and disclosure requirements in Peru that is much more comprehensive, more detailed and more thorough than those required before, in terms of both depth and breadth.

In 2018, the second phase of the tax reform in Peru was carried out with relevant changes, which affected transfer-pricing matters. It is specific in terms of services between companies and the price of commodities.

For its part, Legislative Decree No. 1381 has modified, as of January 1, 2019, the transfer pricing method applicable to the determination of the price of commodities, in this sense, it indicates that the market value will be the contribution value that has been agreed upon by the taxpayer, provided that:

- (i) It has been communicated to the SUNAT, 15 days before the shipment or disembarkation of the goods, attaching the contract or detail of the transaction; and
- (ii) The foregoing is in accordance with the agreement of independent parties on equal or similar terms.



On the other hand, through Legislative Decree No. 1369 (DL 1369), it has been specified that as of January 1, 2019, the “benefit test”, understood as the economic sustenance of why a company requires a service, will be applicable to support the deductibility of the expense in all the service operations between related parties, excluding the services provided by companies located in tax havens. It is necessary to specify the regulatory way, through Supreme Decree No. 337-2018-EF, the documentation and information has been established with which it must be counted in order to prove that a service provided meets this test.

Another issue addressed by DL 1369 is related to the guidelines imposed to quantify the remuneration for services between related parties, for deducting the consideration of said as cost or expense, the resident entity must:

- (i) satisfy the benefit test (i.e., demonstrate that the intragroup services provided an actual commercial or economic benefit); and
- (ii) have supporting documentation, providing the nature of the services and proof that: (a) the services were rendered; (b) there was a real need for the services; and (c) the service provider incurred costs and expenses.

Note that, in the case of services that qualify as low-value-added services, the deduction of the cost or expense for the service received is determined based on the sum of the costs and expenses incurred by the service provider as well as their profit margin, which cannot exceed five percent (5%) of such costs and expenses.

Low value-adding intra-group services for the purposes of this approach are services performed by one member or more than one member of an MNE group on behalf of one or more other group members which

- Are of a supportive nature
- Are not part of the core business of the MNE group
- Do not require the use of unique and valuable intangibles and do not lead to the creation of unique and valuable intangibles, and
- Do not involve the assumption or control of substantial risk by the service provider and do not give rise to the creation of significant risk for the service provider.

The tax regulations will provide examples of services that would likely meet the definition of low value-added services.

### Custom Duties

#### ▸ Rates and Tax bases

The applicable customs duties and taxes are summarized below:

Tax	Rate	Tax bases
Custom Duties*	0%, 6% and 11%	CIF Value**
VAT	18%	CIF Value + Customs Duties + Excise Tax (if applicable)

\*Customs Duties rates depend on the kind of items imported. Capital goods are generally subject to a 0% rate.

\*\*World Trade Organization (WTO) rules are applicable to arrive to customs value.



## International Free Trade Agreements and other commercial agreements

The main agreements executed by the Peruvian government in order to gain access to international markets are the following:

### Andean Community (CAN):

Peru fully enjoys the benefits from the free trade zone established by this agreement for all its member countries (Bolivia, Colombia, Peru and Ecuador). Since Venezuela is no longer a member of the CAN, Peru has celebrated a Bilateral Agreement with Venezuela, which has been in force since August, 2013. Also, Peru, as member of the Andean Community, has other obligations and commitments regarding other topics besides the free trade zone.

### Southern Common Market (Mercosur):

Partial agreements executed by the Peruvian government with each of the member countries (Brazil, Argentina, Paraguay and Uruguay) are in force. By means of the aforementioned agreements, Peru and Mercosur member countries have reciprocally granted each other preferential customs duty rates.

### Pacific Alliance:

Peru, Mexico, Colombia and Chile are members of the Pacific Alliance which supports a deeper integration towards free circulation of goods by preferential tariff treatment (complying with origin conditions and direct expedition), services, capitals and people among member countries.

### Bilateral Free Trade Agreements

Bilateral Free Trade Agreements with the United States, Australia, Canada, China, Chile EFTA States (Iceland, the Principality of Liechtenstein, the Kingdom of Norway and the Swiss

Confederation), Mexico, Japan, Singapore, Thailand, Republic of Korea, Panama, European Union, Costa Rica and Honduras are already in force. In addition, Peru has celebrated the Partial Agreement with Cuba (ACE 50).

On May 2019, Peru along with Colombia and Ecuador (Andean countries); have signed a Trade Agreement, with the UK (United Kingdom of Great Britain and Northern Ireland). In the meanwhile, Peru and the UK, have made temporary arrangements to continue preferential trade benefits until the UK-Andean Trade Agreement comes into effect.

In order to apply any of these preferential treatment, goods must meet, certain requirements including origin and direct expedition requirements.

Peru has concluded Free Trade Agreement negotiations with Brazil and Guatemala; as well as the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) along with Australia, Brunei Darussalam, Canada, Chile, Japan, Malaysia, Mexico, Nueva Zeeland, Singapore and Vietnam, which incorporates the provisions of the Trans-Pacific Partnership Agreement and suspends the application of some of those provisions (which already had negotiations concluded but not in force yet), such as intellectual property) set out in the Annex to the text of the Agreement.

Furthermore, Peru maintains negotiations with Turkey, El Salvador and India in order to subscribe free trade agreements.

Finally, it is important to mention that Peru is a founding member of the World Trade Organization (WTO). Therefore, the WTO's regulations regarding antidumping practices, subsidies, countervailing duties and service market liberalization, among others, are applicable in Peru.



## Worker's profit

Employers are required to distribute a share of their profits among their employees. The rate depends on the company's activity, as follows:

- ▶ Fishing - 10%
- ▶ Telecom - 10%
- ▶ Industry - 10%
- ▶ Mining - 8%, including exploitation of coal mines; production of petroleum and natural gas; and extraction of iron, uranium, thorium, iron-free minerals, construction stone, clay, talc, sand and gravel, feldspar and salt.
- ▶ Commerce and restaurants - 8%
- ▶ Other - 5%, including farming, stockbreeding and forestry; production and distribution of electricity; production of gas; transportation services and services related to air transportation (such as travel agencies, storage and deposit); financial services of insurance and real estate; legal, audit and accounting activities; business consulting, consulting related to informatics and data processing; and advertising, health and medical services, and education.

Many oil & gas companies calculate this employee benefit using the 5% rate that applies to the "other" group of activities. This has been a matter of discussion at the judiciary level.

Profit sharing is calculated on pretax income, and the amount is deductible as an expense for determining income tax. An example of the combined-effect calculation using a 5% profit-sharing rate is as follows:

- ▶ Net income: 100
- ▶ Profit sharing: 5
- ▶ Net income for CIT purposes: 95
- ▶ Income tax (31.5\* of 95): 29.9
- ▶ Combined effect:  $29.9 + 5 = 34.9$   
(34.9% of net income)

\*Tax Rate plus 2% premium applicable to upstream oil & gas and mining activities.

The amount paid is allowed as a tax deduction for corporate tax purposes. Not all foreign governments recognize this as a creditable tax and as such double taxation can occur.



# C

## Special fiscal rules

# 1

## Oil & gas

### At a glance

The fiscal regime that applies to the oil & gas industry in Peru consists of a combination of corporate income tax, royalties and other levies.

Hereunder, we provide a brief char on this matter:

Income Tax rate	29.50% <sup>(1)</sup> <sup>(2)</sup>
Hydrocarbon Royalties	5% imposed on the value of the hydrocarbons produced in certain block
Capital allowances	Ring-fence rules and preoperative investment amortization
Investment incentives	Tax losses can be carried forward for 4 years or indefinitely; stabilization agreements; VAT recovery; VAT exemptions on imports of goods for exploration activities

(1) Oil & gas companies with license or service agreements are subject to a 2% premium. These 2 points should be added to the current Income Corporate Tax rate, resulting in an Income Tax rate of 31.5%.

(2) In addition, they must pay a 5% employee profit sharing.

In general terms, oil & gas companies are subject to the general corporate income tax regime; nevertheless, there are certain special tax provisions for the oil & gas sector.

### Special rules for investments in hydrocarbon activities

Hydrocarbon law provides that exploration and development expenditures, including the investment contractors may make up to the production date (when the commercial extraction of hydrocarbon starts) can be accumulated in an account. At the contractor's option and regarding each contract, the amount is amortized using either of the methods below:

- ▶ On the basis of the production unit.
- ▶ Through linear amortization, deducting the expenditures in equal portions during a period of no less than five fiscal years.

Any investments in a contract area that did not reach the commercial extraction stage and that were totally released, can be accumulated with the same type of investments made in another contract that is in the process of commercial extraction. These investments are amortized in accordance with the amortization method chosen in the letter contract.

If the contractor has entered into a single contract, the accumulated investments are charged as a loss against the results of the contract for the year of total release of the area for any contract that did not reach the commercial extraction stage, with the exception of investments consisting of buildings, power installations, camps, means of communication, equipment and other goods that the contractor keeps or recovers to use in the same operations or in other operations of a different nature.

Once commercial extraction starts, all amounts corresponding to disbursements with no recovery value are deducted as expenses for the fiscal year. Expenses with no recovery value occur at the start of commercial extraction for the following purposes:

- ▶ Investments for drilling, completing or producing start-up wells of any nature, including stratigraphic ones, and excluding acquisition costs of surface equipment.
- ▶ Exploration investments, including those related to geophysics, geochemistry, field geology, gravimetry, aerophotographic survey and seismic surveying, processing and interpreting.

The Manual of Accounting Procedures to be filed before Perupetro must detail the accounts considered as expenditures without any recovery value.

### Ring-fence rules for oil & gas contracts

The contractor determines the tax base and the amount of the tax, separately and for each contract. If the contractor carries out related activities (i.e., activities related to oil & gas, but not carried out under the terms of the contract) or other activities (i.e., activities not related to oil & gas), the contractor is obligated to determine the tax base and the amount of tax separately and for each activity.

The corresponding tax is determined based on the income tax provisions that apply in each case (subject to the tax stability provisions for contract activities and based on the regular regime for the related activities or other activities).



The total income tax amount that the contractor must pay is the sum of the amounts calculated for each contract, for both the related activities and for the other activities. The forms to be used for tax statements and payments are determined by the tax administration.

If the contractor has more than one contract, it may offset the tax losses generated by one or more contracts against the profits resulting from other contracts or related activities. Likewise, the tax losses resulting from related activities may be offset against the profits from one or more contracts.

It is possible to choose the allocation of tax losses to one or more of the contracts or related activities that have generated the profits, provided that the losses are depleted or are compensated to the limit of the profits available. This means that if there is another contract or related activity, the taxpayer can continue compensating tax losses until they are totally used.

A contractor with tax losses from one or more contracts or related activities may not offset them against profits generated by the other activities. Furthermore, in no case may tax losses generated by the other activities be offset against the profits resulting from the contracts or from the related activities.

## Hydrocarbon Royalty

As mentioned before, oil & gas exploration and production activities are conducted under license or service contracts granted by the Government. Under a license contract, the investor pays a royalty, while under a service contract, the Government pays remuneration to the contractor.

In both cases, however, the distribution of the economic rent (royalty or remuneration) between the Government and the investor is determined based on the following methodologies:

### ► Production scales

This methodology establishes a percentage of royalty (or brackets of royalties starting at 5 %) over certain scales of production (volume of barrels per calendar day) for the fiscalized liquid hydrocarbons and the fiscalized natural gas liquids, and other royalty percentages for the fiscalized natural gas for each valuation period.

Note that the fiscalized hydrocarbons (i.e. liquid hydrocarbons, natural gas, etc.) means those produced and measured in a specific fiscalized production point set between the investor and the Government in order to establish the quality and volume of hydrocarbons, according to API (American Petroleum Institute) and ASTM (American Society for Testing and Materials) regulations.







Based on the scales of production, the percentage of royalty is:

Scales of production (per barrels per calendar day)	Percentage of royalty
< 5	5%
5-100	5% to 20%
> 100	20%

#### ► Economic results (RRE)

According to this methodology, the royalty percentage is the result of adding the fixed royalty percentage of 5% to the variable royalty percentage. The variable royalty percentage is calculated once the ratio between revenues and expenditures, as of the previous year, is at least 1.15. The variable royalty will be applicable in a range between 5% and 20%.

#### ► Other Methodologies

“R” Factor and Cumulative Production per Oil Field with price adjustments are alternative methodologies. In the case of “R” Factor, the royalty is calculated by applying a ratio between revenues and expenditures within a certain period established in the contract. For these purposes, the minimal percentage of royalty is:

“R” Factor	Percentage of royalty
From 0.0 < 1.0	15%
From 1.0 < 1.5	20%
From 1.5 > 2.0	25%
From 2.0 or more	35%

The definitive percentages will be negotiated and established in each Contract.

On the other hand, in the case of Cumulative Production per Oil Field with price adjustments, the royalty is calculated based on a specific percentage per Oil Field of a Contract. The royalty is adjusted based on two factors: the cumulative production of each Oil Field and the average price per barrel of such production.

Hydrocarbon royalties paid by oil & gas companies shall be considered a deductible expense for income tax purposes.

#### Incentives

##### ► Relief for losses (consolidation of losses on hydrocarbon activities):

Tax losses can be carried forward and offset against net income derived in future fiscal years.

The provisions currently in force require the taxpayer to elect one of the following procedures to offset the tax losses:

- Offset the total net tax losses from Peruvian sources incurred in a tax year against net income derived in the four fiscal years following its generation. The amount of losses not offset after this term is cancelled.
- Offset the total net tax losses from Peruvian sources obtained in the tax year against 50% of the net income obtained in the following years, without limitation.



“

## Peru's tax system has included certain specific rules for oil & gas companies (ring fence rules, expense amortization, etc.)

The election should be made when the annual income tax return is filed and it cannot be changed until the accumulated losses are fully utilized.

Loss carrybacks are not allowed.

### ► Special incentives for hydrocarbon investors:

#### Stability regime

The Organic Law for Hydrocarbons and the related tax regulations foresee that the signing of an oil & gas agreement implies the guarantee that the tax regime in effect at the date of signature will not be changed during the life of the contract. This is intended to preserve the economy of the contract so that no further tax costs are created for the contractors.

The signing of an agreement for the exploration or exploitation of a block “freezes” the tax regime in force at the date in which the contract is signed for the entire contract applicable term. Taxes covered by this provision are the taxes in which the responsibility rests on the contractor as a taxpayer.

Specifically, tax stability covers the following:

- Income Tax, but an additional two percentage points must be applicable to the rate in force at the signing date (i.e. current Income Tax rate of 29.5% plus 2%). Taxes that affect profit distributions arising from the contract activities (i.e., dividend tax or branch profits tax) are also covered by the tax stability.
- Indirect taxes (Value Added Tax, Municipal Promotion Tax, and Selective Consumption Tax), but only as to its transferable nature.
- Tax exemptions and other tax benefits, but subject to the term and conditions established in the provision that contain such benefits.
- Tax recovery regimes, temporal admission regimes, export regimes and other related.

It is important to note that tax stability is, in essence, granted for the contract activities and not directly for the entities that signed the contract. Therefore, changes in the contractor's ownership will not affect the tax stability. The tax stability only covers the contract activities (i.e., the exploration and exploitation of hydrocarbons) and no other related or distinct activities that may be performed by the legal entity (e.g., downstream activities). Revenues obtained from the sale or exports of the extracted hydrocarbon are included in the activities covered with tax stability.

► **Special custom duties:**

**VAT exemptions on import of goods for the exploration phase**

The import of goods and supplies required for carrying out exploration activities in the exploration phase is exempted from all taxes. The list of goods to which this exemption applies is published by the Ministry of Economy and Finances (MEF).

This exemption will not be applicable if the imported goods are used in other activities rather than exploration or if they are sold to third parties, unless:

- They are sold or delivered to third parties for use in exploration activities.
- They are re-exported with the previous authorization of Perupetro.
- They are used in exploration activities during the exploration phase of another hydrocarbon contract for the same contractor.
- They are sold or delivered to a company authorized to imports those goods free from all taxes. It is important to mention that this must be communicated to the Customs Administration.

**Temporary importation**

Goods required for the execution of hydrocarbon contracts may be brought into Peru on a temporary basis for a period of 2 years without the payment of duty or taxes and re-exported afterwards in the same state

as they were at import. This term can be extended for a one-year period, up to two times.

There are conditions placed on temporary imports. The most important condition is that you export the goods within the time limits approved. In addition, a guarantee needs to be filed at the time of import.

The guarantee is an amount equal to the duty and taxes that would have been payable at import, plus compensatory interests. If the goods are not exported within the time limit you will have to pay an amount equal to the duty and taxes that would have been payable when you first imported the goods, as if the goods had not been treated as temporary imports, plus interests.

**Selective Consumption Tax (ISC)**

On May 9, 2018, Supreme Decrees approved by the Ministry of Economy and Finance were published, by means of which modifications have been introduced regarding the goods affected by the Selective Consumption Tax -among them fuels- and the applicable tax rates. These modifications became effective the day after they were published.

In the case of fuels, the modifications were approved taking into account the Index of Noxiousness of Fuels prepared by the Ministry of Environment, in order to discourage the consumption of fuels that pollute the most and encourage the substitution of less polluting ones, and the use of cleaner technologies. Users must pay more taxes for using one fuel more polluting than another.



### Selective Consumption Tax on fuels

Tariff heading	Products	S/ per gallon	USD per gallon*
2701.11.00.00	Anthacites for energetic use	51.72 (per ton)	170.99
2701.12.00.00- 2701.19.00.00	Bituminous coal for energetic use, and other coals	55.19 (per ton)	182.46
2710.12.13.10 2710.12.19.00 2710.12.20.00 2710.20.00.90	Gasoline for motors with Research Octane Number (RON) less than 84	1.27	0.38
2710.12.13.21 2710.12.19.00 2710.12.20.00 2710.20.00.90	Gasoline for engines with RON equal or over 84, but less than 90, and with 7.8% volume of fuel alcohol	1.22	0.37
2710.12.13.29 2710.12.19.00 2710.12.20.00 2710.20.00.90	Gasoline with RON equal or over 84, but less than 90	1.27	0.38
2710.12.13.31 2710.12.19.00 2710.12.20.00 2710.20.00.90	Gasoline for engines with RON equal or over 90, but less than 95, and with 7.8% volume of fuel alcohol	1.16	0.35
2710.12.13.39 2710.12.19.00 2710.12.20.00 2710.20.00.90	Other fuels with RON over or equal to 90 but less than 95	1.21	0.37
2710.12.13.41 2710.12.19.00 2710.11.20.00 2710.20.00.90	Gasoline for engines with RON equal or above 95, but less than 97, and with 7.8% volume of fuel alcohol	1.13	0.34
2710.12.13.49 2710.12.19.00 2710.12.20.00 2710.20.00.90	Other fuels with RON over or equal to 95 but less than 97	1.17	0.35
2710.12.13.51 2710.12.19.00 2710.1.20.00 2710.20.00.90	Gasoline with RON equal or above 97 and engines with 7.8% volume of fuel alcohol	1.13	0.34
2710.12.13.59 2710.12.19.00 2710.12.20.00 2710.20.00.90	Other fuels with RON equal or above 97	1.17	0.35

Tariff heading	Products	S/ per gallon	USD per gallon*
2710.19.14.00 / 2710.19.15.90	Kerosene and Jet Fuels (Turbo A1), except certain sales in the country or imports for airships.	1.93	0.58
2710.19.15.90	Kerosene and Jet Fuels (Turbo A1), only for: - Aircraft exploiters, according to Law No. 27261. - Holders of certificates to operate airships issued by the General Bureau of Civil Aeronautics. - Aviation fuel traders that hold a valid certificate of registry issued by the General Bureau of Civil Aeronautics.	0.26	0.08
2710.19.21.10 / 2710.19.21.90	Gas oils, except Diesel B2	1.47	0.44
2710.19.21.11 / 2710.19.21.99	Gas oils	1.58	0.48
2710.19.21.11 / 2710.19.21.99	Rest of gas oils, except Diesel B2 and Diesel B5	1.26	0.38
2710.19.21.20	Diesel B2	1.44	0.44
2710.19.21.21	Diesel B2 with sulfur content equal or below 50 ppm	1.04	0.31
2710.19.21.29	Rest of Diesel B2	1.24	0.38
2710.19.21.31	Diesel B5 with sulfur content equal or below 50 ppm	1.01	0.31
2710.19.21.39	Rest of Diesel B5	1.20	0.36
2710.19.22.10	Residual 6, except sales in the country or imports by certified seacraft fuel marketers.	0.92	0.28
2710.19.22.90	Other fuels	1.00	0.30
2710.20.00.11	Diesel B2 with sulfur content equal or below 50 ppm	1.70	0.51
2710.20.00.12 / 2710.20.00.13	Diesel B5 and Diesel B20 with sulfur content equal or below 50 ppm	1.49	0.45
2710.20.00.19	Other mixes of Diesel B2 with Biodiesel B 100	1.70	0.51
2711.12.00.00 / 2711.19.00.00	Liquefied Oil Gas	0.00	0.00

\*USD1 = S/3.306



#### ► Reimbursement on oil products acquisitions:

Oil & gas companies located in the region of Madre de Dios can obtain a reimbursement on the ISC that levied their oil products acquisitions.

In both cases, oil & gas companies should be located in the mentioned regions, be registered in the Public Registry of such location, and must have more than 70% of its shares and/or activities in the Amazon region. These requirements do not apply to oil & gas extractor and refining companies.

#### Special Contributions

##### ► Osinergmin Contribution

Oil & gas companies that import or produce fuels, including liquefied petroleum gases and natural gas, or carry out transportation and distribution activities should pay this contribution to the Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN). The rate of this contribution is 0.35 % for 2021-2022 (for import or production activities) and 0.57% for 2021 and 0.56% for 2022 (for transport and distribution activities), applied on their monthly billing after deducting VAT.

##### ► OEFA Contribution

Oil & gas companies that import or produce fuel, including liquefied petroleum gases, or carryout transport and distribution activities should pay this contribution to the Enviromental Audit and Evaluation Agency (OEFA). The rate of this contribution for years 2020-2022 is 0.09% (for import or production activities) and 0.11% (for transport and distribution activities) for 2021 and 0.10% for 2022, the rate is applied on their monthly billing after deducting VAT.

##### ► FISE Contribution

The Energetic Social Inclusion Fund (FISE) is a fund established by the Peruvian State, which originally worked as a mechanism to promote the inclusion of the population in need to the supply of energy, with the following objectives:

1. To massify natural gas for housing and vehicle purposes
2. Extend the energy frontier by the use of renewable energy
3. Generate access to LPG to vulnerable sectors of the population
4. Work as a compensation mechanism related to residential electricity

Its financing sources come from the great electricity consumers (mining and industry, mainly), natural gas transport service through pipelines (Camisea), and production and imports of fuels. The hydrocarbon and electricity companies, which carry out these activities, are responsible for collecting these contributions and transferring them to the Supervisory Body of Private Investment in Energy and Mines (OSINERGMIN).



OSINERGIM is the entity in charge of managing these contributions. The FISE contribution can be executed in any of the aforementioned goal through a myriad of diverse energy projects established by the Energy and Mines Ministry.

Recently, the Government issued Legislative Decree No. 1331, by means of which it added dispositions in order to expand the application of FISE goals.

Certainly, with the implementation of those dispositions, funds from FISE could now be used to finance connections to the gas supply that may be available by new distribution concessions.

In this way, natural gas distribution concessions through pipelines could benefit from FISE by the promotion of gas connections subsidized with funds from the latter.

# 2

## Electricity

In general terms, electricity companies are subject to the general corporate income tax regime described previously; nevertheless, there are certain special tax provisions for the electricity generation with water resources and other renewable resources. In addition, certain benefits have been approved for holders of geothermal resources concessions.

All these special rules have been approved in the framework of the energy matrix diversification policy, articulating the instruments of environmental management with the promotion and development of a low carbon economy, promoting relations and coherence between the regulatory policy of clean energy use in development of any private initiative and the tax policy.



## Accelerated depreciation benefit

The generation of electricity with renewable resources such as, hydroelectricity is characterized by low production costs (operating stage) but very high investment costs (construction stage), compared to other types of technologies. Certainly, the large hydroelectric plants have a construction period that on average is 4 to 5 years and an investment cost per MW of installed power quite expensive, between USD1.2 to 1.4 million, compared with other technologies such as the natural gas thermoelectric plants that have a construction period between one year and a year and a half and average investment cost of USD0.4 million per MW, which makes the hydroelectric plants a long-term business.

On average, a large hydroelectric plant operates only in the sixth year in order to obtain profits from the sale of electricity, however, gas thermal power plants begin to make their business profitable in two years from the beginning of the investment. Thus, a hydroelectric power station has a construction time and an investment cost three times greater than that of thermal power plants. This situation required the creation of fiscal incentives to guide investment in the construction of hydroelectric power plants, instead of thermal power plants.

Considering that investors make decisions evaluating lower costs and shorter periods of investment recovery, the benefit of accelerated depreciation was approved in 2008 for projects that use renewable energy as source for generating electricity.

Legislative Decree No. 1058 provides that accelerated depreciation shall be applicable to the machinery, equipment and civil works necessary for the installation and operation of the plant, which are acquired and / or constructed. For these purposes, the annual depreciation rate will be no greater than 20% as annual global rate, and the rate may be changed annually by the holder of the generation concession prior communication to SUNAT.

This benefit will be valid until December 31, 2025.

## Guarantees of investment promotion in geothermal resources

The only renewable resource that has a special promotion law is geothermal energy. Law No. 26848 and its Regulations establish special rules for holders of geothermal resources concessions, which are pretty similar to the fiscal rules provided for oil operations described above.

When these holders are branches of companies incorporated abroad, the income tax will only be collected on their taxable income from a Peruvian source.

## Stability regime

The State guarantees to the holders of geothermal rights that the tax regime in force at the moment that the authorizations are granted or the contracts for the geothermal resources concession are signed, will remain unchanged during the validity of the same for the purposes of each authorization or concession contract. As in the oil industry, taxes covered by this provision are the taxes in which the responsibility rests on the contractor as a taxpayer.



## Ring fence rules for activities of exploration or exploitation of geothermal resources

The holders of authorizations and concessions that carry out activities of exploration or exploitation of geothermal resources, in more than one concession contract and that also develop other activities related to geothermal resources and related energy activities, will determine the results of each exercise independently by each contract and for each activity for the purpose of calculating the income tax.

If one or more concession contracts or activities generate carryover losses, these may be compensated with the profit generated by another or other concession contracts or related activities, at the option of the concessionaire. This means that if there is another contract or related activity, the taxpayer can continue compensating tax losses until they are totally used.

The corresponding tax is determined based on the income tax provisions that apply in each case (subject to the tax stability provisions for contract activities and based on the regular regime for the related activities or other activities).

## Investments amortization

Exploration expenses, as well as the investments made by concession holders until the date on which the commercial exploitation of the geothermal resources begins, including the cost of the wells, will be accumulated in an account which amount, at the option of the owner and for each contract, will be amortized based on the production unit; or by linear amortization, deducting them in equal portions, for a period of not less than five years.

The concession contract must specify the amortization method used by the owner, which cannot be varied. In the case of opting for the linear amortization method, the period in which the amortization will be made must be agreed in the same contract. The depreciation made by the holders must be communicated to the Tax Administration (SUNAT).

Once commercial exploitation starts, all items corresponding to expenses that have no recovery value will be deducted as an expense of the year. The wear that suffered depreciable assets will be compensated through the deduction of the write-offs that will be computed annually, according to the common system of income tax, on the date of subscription of each contract. The expenses for services rendered by non-resident entities shall be deductible from income tax, subject to compliance with the requirements established in the respective regulations.

Note that the investments made in a concession contract, in which the commercial exploitation stage has not been reached, can be accumulated to the same type of investments made in another contract in which this stage has been reached and the total will be amortized in accordance with the amortization method chosen in the contract.



## Special custom duties: Import

The import of goods and supplies required by the holders of geothermal resources authorizations for exploration activities, are exempt from all taxes, including those that require express mention, for the duration of such authorization, according to the list of goods to be approved by Supreme Decree.

Holders of geothermal rights may not export the goods entered under the exemption regime described before, nor may they be used for other purposes, except as provided in the General Customs Law and its regulations.



## Special Contributions

### Osinergmin Contribution

Electricity companies that are holders of generation, transmission and distribution concessions of electric power, as well as of the entities that exclusively develop generation activities through authorization, should pay this contribution to OSINERGMIN. The rate of this contribution is 0.49% for 2021 and 0.47% for 2022, applied on their monthly billing after deducting VAT.

### OEFA Contribution

Electricity companies that are holders of generation, transmission and distribution concessions of electric power, as well as of the entities that exclusively develop generation activities through authorization, should pay this contribution to the OEFA. The rate of this contribution for years 2020-2022 is 0.11% applied on their monthly billing after deducting VAT.

### FISE Contribution

As we described for the oil industry, FISE is a national fund for promoting the inclusion of the population in need to the supply of energy, whose financial incomes come from the surcharge on the monthly billing of the great electricity consumers (mining and industry, mainly). Thus, the companies that provide electricity to this group of consumers are responsible for collecting these contributions and transferring them to OSINERGMIN.



## FOSE Contribution

The Electric Social Compensation Fund (FOSE) is aimed at allowing access and permanence of electricity service to all residential users of the public electricity service whose monthly consumption is less than 100 kilowatt hours per month included in the BT5 tariff, residential tariff or the one that later replaces it.

Its financing source comes from a surcharge on the monthly billing of power, energy and fixed monthly charges invoiced to public electricity service users of the interconnected systems not included in the scope of FOSE beneficiaries. This surcharge will be established based on a percentage that will be determined by the OSINERGMIN based on the sales projection of the following period. OSINERGMIN is the entity in charge of managing these contributions.

The electricity distribution companies must present to OSINERGMIN a detailed monthly settlement of the surcharge for FOSE transferred to energy consumers because they are the responsible for collecting these contributions and transferring them to OSINERGMIN.

## Other Taxes

Regarding the ISC, the tax rate for the import and sale within the country of new hybrid or electric vehicles was modified from 10% to 0% rate, the goal is to promote the import of less polluting vehicles. Nevertheless, the import of used hybrid or electric vehicles is taxed with a 40% rate.

Regarding custom duties, photovoltaic cells have an import tariff of zero.

However, both types of goods (vehicles and cells) are taxed with the VAT (18%) in the import and sale.





# Miscellaneous matters



# 1

## Labor legislation

### Hiring personnel

Indefinite term contracts are the legal default scheme for hiring in Peru, although as an exception, fixed term contracts can also be signed. The fixed term contracts require an objective cause established by the law to enter into this type of contracts (for example, start up of a new business, works or specific services, substitution, etc.) and its validity is subject to compliance with certain formal requirements.

These contracts provide employees with all the rights and benefits granted to employees hired for an indefinite term.

There are also other types of hiring schemes that grant different benefits, such as labor training modalities, part-time employees, among others.

The trial period is counted from the first day of the labor relationship and must have a maximum term of:

- i) three months for all employees in general;
- ii) six months for qualified or confident personnel, and
- iii) 12 months for management personnel.

Once this period is completed, the employees are regarded as permanent and can only be dismissed under circumstances concerned with their behavior at work or their ability to carry out their duties.

### Termination of employment contract

In accordance with the Peruvian Legislation, employees are protected against arbitrary dismissal.

In the event of unjustified dismissal, an employee may claim a severance payment equivalent to one and a half months salary per year of service (under an indefinite term working contract); or, one and a half months salary per pending month (under a fixed term work contract). The maximum severance payment is twelve salaries. Alternatively, the employee can claim the restitution to the same job previously occupied. In the case of managerial or confidence personnel, they are not entitled to restitution, and according to the last criterion established by the Court, they will be entitled to the severance payment only in some cases. The law allows collective dismissals under certain circumstances such as acts of God or force majeure, financial or technical streamlining, dissolution, bankruptcy or operating downsizing, without having to pay the severance payment.

## Employees' benefits

Employers are required to provide the following benefits for employees:

- ▶ **Family allowance:** monthly payment equivalent to 10% of the Minimum salary (S/93 since March, 2018).
- ▶ **Vacation:** equivalent to 30 calendar days of paid rest.
- ▶ **Legal bonuses:** 2 bonuses per year, one paid in July and one in December, each one equivalent to one monthly salary approx. Additional Extraordinary Bonus equal to 9% or 6.75% of the legal bonus must be paid, depending if the employee is affiliated or not to the EPS.
- ▶ **Compensation for Time of Services (CTS):** equivalent to approximately 1.16 monthly salary per year. 50% has to be deposited in May and the remaining 50% in November, in the bank elected by the employee.
- ▶ **Profit sharing:** the amount to be distributed ranges between 5% and 10% of the taxable income, depending on the activity of the employer. This benefit is applicable for companies employing more than 20 individuals.

All these benefits are deductible for corporate income tax purposes.

Employers can negotiate a total annual compensation that includes all the benefits described above, except for the profit sharing, in a fixed monthly installment, as long as the employees earn a monthly salary higher than 2 tax units (S/8,600 during 2020, approximately USD2,390).

## Social contributions

- ▶ **Health Care Contribution:** This contribution is paid by the employer and its purpose is to finance the social health system (named EsSalud in Peru), which provides health care services and pay subsidies in case of employee' disability. It is collected by the Peruvian Tax Administration (SUNAT). The amount contributed is equal to 9% of the employees' remuneration.

If the company provides health coverage to its employees using its own resources or through an EPS (in Spanish, the acronym means Entidad Prestadora de Salud) it can request a credit of up to 25% of the Health Care contribution, subject to certain limits established by law.

- ▶ **Pension System Contribution:** The employee can alternatively join the Government Pension System (GPS) or the Private Pension System (PPS). In the GPS, the employee must make contributions equal to 13% of his remuneration. In the PPS, the employee has to make contributions equal to an average of 13% of his monthly remuneration paid in cash. Regardless of the system chosen by the employee (GPS or PPS), the employer is responsible to withhold employees' contributions from their salaries.
- ▶ **Mandatory Life Insurance:** This is a mandatory insurance paid for employees from the first day of services. The premium depends on the number of insured employees, the risk of the work they carry out, and in general, on the terms agreed with the insurance company.





- **High Risk Labor Insurance (SCTR):** This is a mandatory insurance to be paid by companies whose activities have a certain level of risk, such as fishing, construction, air transport, manufacturing, among others described in Appendix 5 of Supreme Decree No. 009-97-SA and provides additional coverage for health and pension plans. The contract for health services may be entered with EsSALUD or with a Private Health Care Provider (EPS); a contract for the pension coverage can be entered with the Government Agency for Pension Fund (ONP, due to its acronym in Spanish) or with a private insurance company. The rates depend on the type of activity and/or the terms agreed on with the insurance entity.
- **Other contributions:** Additional contributions are applicable based on the company's activities, such as the Complementary Retirement Fund, which applies to mining, metal and steel companies; among other contributions.

## Expatriates

Foreign individuals that enter into Peru to perform dependent activities for a local employer need to submit their work contract for approval to the Labor Authorities, and obtain their work visa. These employees have the right to receive the same labor benefits as Peruvian employees, and are subject to the same taxes and contributions. As a general rule, foreign employees should not exceed 20% of total personnel. Additionally, wages paid to foreign employees should not exceed 30% of total payroll cost. Such limits can be waived for professionals and specialized technicians or management personnel of a new entrepreneurial activity or in case of a business reconversion, among others.

Also, despite the certificate of labor and professional degree is not longer submitted in original before the labor authority, as proof of the foreigner's specialization, is necessary for the employer to hold it in their own registry in case of an eventual inspection.

No restrictions apply to foreign individuals working in Peru with Peruvian immigrant visa, individuals married to Peruvians or having Peruvian children, parents or siblings and foreign investors with a permanent investment in Peru of at least USD151,060 (\$/500,000.00). Bear in mind that foreigner cannot support investment through share transfer. This also applies to Spanish citizens and countries members of the CAN, which is a regional organization that aims Andean Integration of their members such as Bolivia, Ecuador, Colombia and Peru and citizens of Mercosur members or associates.

It is important to note that Peruvian legislation has established some labor benefits in favor of Venezuelan citizens.



## Immigration

Foreigners can enter Peru under the following migratory qualifications, among others:

Visa	Rate	Tax bases
Tourist	Temporal	This visa does not allow the holder to perform paid activities.
Business	Temporal	This visa allows the holder to perform business activities, technical assistance or similar. This visa allows the expatriate to sign contracts.
Work	Resident or Temporal	This visa allows the holder to work in Peru (as dependent or independent). In case of a work contract with a Peruvian company, it should be duly registered / or automatically approved by the labor ministry.*
Designated employee	Resident or Temporal	This is a visa that applies to an employee of a foreign company. The service agreement and assignment letter must be submitted to the migratory authority. Those documents must be legalized by the Peruvian consulate and the Peruvian foreign ministry/apostilled. In order to obtain the Designated resident visa, the documents will need to be granted for an assignment of a minimum of 1 year.

\*Despite this, the work contract has to be presented before the authority.

Also, the following migratory qualifications are currently available, among others:

Visa	Type	Activities
Training	Resident or Temporary	This visa allows the holder to study in Peruvian institutions or to be an intern in a Peruvian company in activities related to his career.
Investor	Resident	This visa allows the holder to establish, develop or manage investments according to Peruvian law.
Investigation	Resident or Temporary	This visa is for foreigners with knowledge and experience in science and technology fields, that comes to Peru through the National Authority in Science and Technology. They are allowed to work.
International Agreements (Ex. Mercosur)	Resident	This visa is for foreigners from countries that have international treaties and agreements with Peru on immigration matters. With the possibility to apply to a permanent visa 90 days prior the expiration of the residency.
Permanent	Permanent	This visa is for foreigners who had been residents for a period of three years with economic support by their own or a family member (Peruvian or foreigner resident).

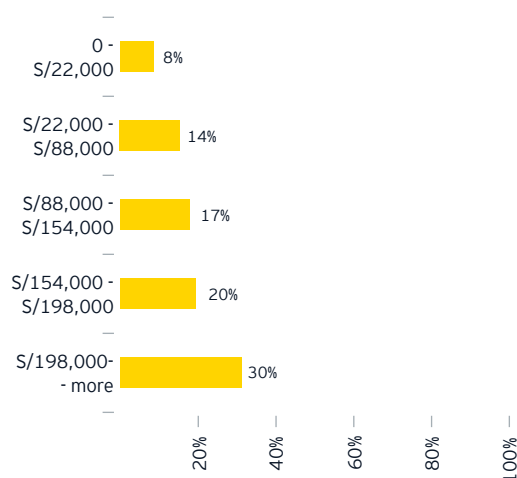
## Individual taxes

According to the Peruvian Income Tax Law, the compensation received for services rendered within Peruvian territory will be considered as Peruvian Source Income regardless of the location of the entity or individual that is paying the income. Hence, the salary received by the employees or the expatriate for services rendered in Peru will be the taxable basis for Peruvian Income Tax.

It must be noted that the employers will be liable to withhold and remit to the Tax Authorities the employee's income tax. For such purpose, it must determine the employee's income tax debt and withhold the appropriate amount on a monthly basis, and pay the income tax to the Tax Authorities, based on the tax resident condition of the individuals and procedure established by law.

In case the employee is considered as non resident for tax purposes, a fixed tax rate of 30% will be applicable over the salary received for his work in Peru, as of the first day of service, regardless of where it is paid.

In the case of tax residents, a five bracket accumulative income tax rate is applicable:



Note that the tax unit used in fiscal year 2021 is S/4,400.

In addition to the 7 tax units deduction to be applied on the residents gross income, as of year 2017, an additional 3 Tax Units can be deducted, subject to specific limits and requirements, expenses in hotels, restaurants and bar, professional fees for doctors and dentist, payments for services rendered that qualify as self-employed retribution (fourth category income) for specific professionals and payments made to EsSalud in favor of domestic workers, if reported through an Annual Income Tax Return.

It is important to mention that all the expenses mentioned above have to be paid through payment methods approved by Tax Administration if the amounts paid exceed S/3,500.00, that is to say, through the financial system in bank transfers, credit and/ or debit cards payments (not cash).



In the case of taxing non-resident individuals entering the country temporarily to perform the following activities, they would not be taxed for revenues obtained in their home country, since they are not considered as Peruvian source income:

- ▶ Acts that precede a foreign investment or any other business.
- ▶ Supervision or control of an investment or business (i.e. gathering data or information, meeting public or private sector personnel, etc.)
- ▶ Hiring local personnel.
- ▶ Signing agreements or similar documents.

If foreigners come from countries that have agreements with Peru in order to avoid double taxation (Chile, Canada, Brazil, Mexico, South Korea, Switzerland, Japan and Portugal) or countries from the Andean Community (Ecuador, Colombia and Bolivia) other tax regulations may apply.

Finally, notice that domiciled individuals will be liable to file a tax return, provided they receive income other than employment income and the law establishes such obligation (i.e. a domiciled individual who receives remuneration and interest from a bank account abroad). Hence, there is no obligation to file a tax return if domiciled individuals receive only employment income.

# 2

## Accounting standards

The Peruvian Business Corporation Act (LGS) establishes that the financial statements of companies incorporated in Peru must follow the general accounting principles accepted in Peru and other applicable legal provisions. The Peruvian Accounting Standards Board (CNC) has established that the general accounting principles are the standards issued by the International Accounting Standards Board (IASB) and the specific provisions approved for particular businesses (banks, insurance companies, etc.). Likewise, on a supplementary basis, the U.S. - General Accounting Principles (GAAPs) are applicable.

The Peruvian Accounting Standards Board (CNC) is responsible for issuing the accounting standards and methodologies that apply to both private business and government entities. The CNC adheres to the standards approved by the IASB, which are explicitly approved by the CNC and published in the official gazette El Peruano, indicating their date of approval.



Companies that issue debt or shares in the capital market are subject to regulation by the Stock Exchange Superintendency (SMV).

Companies supervised by this institution must issue their financial statements in accordance with the International Financial Reporting Standards (IFRS), issued by IASB; they are as effective in Peru as they are worldwide.

The annual financial information given by companies supervised by the SMV must be audited and include the previous year for comparative purposes. Quarterly reports do not need to be audited. The audit must be conducted according to regulations of the International Auditing and Assurance Standards issued by the International Federation of Accountants (IFAC).



# 3

## Environmental obligations

According to the regulation of the Environmental Impact Assessment System (SEIA), all public, private or mixed capital investment projects that involve activities, constructions, works and other commercial and service activities that may cause significant negative environmental impacts must necessarily have an environmental certification, prior to their execution. These projects cannot be initiated, and no national, regional or local authority can approve, authorize, allow, grant or enable them if they do not previously have an environmental certification, being within the scope of this regulation the activities related to hydrocarbons and electricity projects.

In this sense, specific rules were approved for the hydrocarbon's activities (Supreme Decree No. 039-2014-EM) and electrical activities (Supreme Decree No. 014-2019-EM). In the case of the hydrocarbon sector, the investors must fill an Environmental Impact Assessment (EIA) before executing exploration and exploitation activities. In the case of the electricity sector, the investors must present an EIA when requesting a definitive concession, that is when they are dealing with electric generation activities that use hydraulic

resources with an installed power greater than 500 Kw; transmission of electrical energy, when the facilities affect state property and / or require the imposition of right of way; distribution of electricity as a public electricity service, when the demand exceeds 500 Kw; and the generation of electrical energy with renewable energy resources with installed power greater than 500 Kw.

If any of the aforementioned activities resulted in an extension of their scope after the EIA was already approved, the environmental obligations of the investor vary according to the environmental significance of the proposed modification. In the case of the hydrocarbon sector, the EIA approved should be subject to a modification process that requires fulfilling more or less the same steps for a new EIA; however, with the publication of the Supreme Decree No. 054-2013-PCM the Sustainability Technical Reports was created as an expeditious mechanism for the approval of minor changes to the activity granted in concession.

In the case of the electricity sector, the approval of a new EIA is required if the change in the activity granted in concession implies an expansion of its facilities in more than fifty percent of its installed capacity and / or an increase in twenty-five percent of its current level of emissions and / or involving the use of new areas.

The EIA is a crucial document that incorporates technical, environmental and important social matters that contribute to the evaluation and determination of the necessary mechanisms for preventing, minimizing, mitigating and remediation of the possible negative environmental impacts that the hydrocarbon or electrical activities will trigger.

That is why a relevant aspect of this is participation of the population that inhabits the area of influence of the project, which may be

affected by the impacts that could occur in its context that can produce a variation of their living conditions. This participation must occur effectively through informative workshops in non-technical language where the main aspects of the project are detailed, and through a public hearing where agreements are established between the investors and the members that represent the communities in order to reconcile interests.

Bear in mind that depending on the magnitude of the impact that the hydrocarbon or electrical activity will produce in the environment, the investor could develop the following types of EIA:

- ▶ **Environmental Impact Statement (EIS):** If the negative environmental impact is qualified as not significant, a sworn statement is presented, and its approval is almost immediate.
- ▶ **Semi detailed Environmental Impact Assessment (EIA-sd):** If the negative environmental impact is qualified as moderate and liable to be eliminated or minimized by adopting easily applicable measures, a study should be present subject to a period of evaluation by the competent authority.
- ▶ **Detailed Environmental Impact Assessment (EIA-d):** If the negative environmental impact is qualified as significant due to the characteristics, size and / or relocation that the project can produce, a study is required that involves in-depth analysis to review its impacts and propose the management strategy. The study should be present subject to a period of evaluation by the competent authority.

For a long time, the competent authority to evaluate the EIA was MINEM. However, for increasing the trust of the population in the evaluation of the EIA, the more complex studies are evaluated by the Environmental Certification



National Service for Sustainable Investment (SENACE). This means that EIS and EIA-sd are still evaluated by the MINEM, and EIA-d are evaluated by SENACE.

The principal advantages of the creation of SENACE is that a lot of environmental authorization could be obtained in one single process when the EIA is presented (global certification process), manage a National Registry of Environmental Consultant that can help the investor and whose work is documented, and qualified people in social matters and with more technical understanding guide the evaluation process of the EIA presented.

Note that according to the evaluations of the environmental performance of Peru in 2016, the OECD recommended continuing with the process of strengthening and implementing SENACE, to facilitate efficient and independent environmental management and be the technical reference of environmental impact studies.

In that sense, in September 2018, Legislative Decree No. 1393 was approved, with the purpose of strengthening the functioning of the competent authorities in the environmental impact assessment process within the framework of the Environmental Impact Assessment System, as well as with the objective of modernizing, improving and ensuring a timely, effective and efficient environmental assessment of environmental management instruments, through clarifications of their competencies, regulations and functions.

Among the changes introduced in the evaluation of EIA-d by SENACE, the same ones that comprise the hydrocarbon and electricity sectors, emphasize the standardization of

processes and the term of environmental certification to provide greater predictability and legal security to investors. Currently, SENACE introduced a digital platform for the environmental certification's one-stop window and a virtual Documents Filing Desk, through which various procedures can be carried out.

Likewise, it has been arranged to modernize the articulation and interinstitutional collaboration, and to specify the accompaniment of SENACE in the elaboration of EIA-d.

Other aspects at the level of the Environmental Impact Assessment System that the reform addresses are establishing maximum evaluation periods, for instance, an EIA- sd must be evaluated within 90 days, and an EIA-d should be evaluated maximum in 120 days. In addition, it was determined that the environmental certification loses its validity when, within a maximum period of five years, the owner does not initiate the execution of the investment project.

Finally, it is worth mentioning that in July 2019, the new Regulation for environmental protection in electricity Activities has been approved. The old Regulation of Environmental Protection in Electric Activities, approved by Supreme Decree No. 29-94-EM, has been outdated, not adjusting to current environmental legislation. Thus, this new standard will allow: (i) reducing uncertainty in investments, guaranteeing legal certainty in electrical activities; (ii) reduce costs and promote sustainable private investments in the subsector; (iii) facilitate compliance with environmental regulations and the processing of environmental assessment procedures, through fluid and efficient communication between the Competent Environmental Authority and the Holder of the Electric Concession.





# 4

## Climate change

Since Peru ratified the United Nations Framework Convention on Climate Change in 1993, different processes have been carried out to provide an adequate institutional and legal framework for the management of climate change in the country. The challenges presented by the national climate change agenda make it essential to have public and private institutions, informed and able to plan and implement actions to address this problem, with ongoing processes, in order to lay the foundations for sustainable development, inclusive, low carbon and climate resilient.

The period between December 2014 and September 2015 was a significant stage for the management of climate change in the country, in a context marked by the performance of Peru as Chair of the COP20 (Conference of the Parties). In this period, the new National Strategy for Climate Change (ENCC) was approved; the Nationally Determined Contributions (NDC) was formulated; the First Biennial Update Report was prepared; regulations such as the Provisions for the elaboration of the National Inventory of Greenhouse Gases (Infocarbon),

the Regulations of the Forestry and Wildlife Law and the Law of Mechanisms for Compensation for Ecosystem Services were approved; National Institute of Glacier and Mountain Ecosystem Research was created; among other complementary measures, but no less relevant. These are important milestones that demonstrate Peru's commitment to promote governance, institutionalism and normative aspects of climate change, with a view to building a climate-responsible country that adapts to adverse effects and takes advantage of the opportunities imposed by this global phenomenon.

In this context, on December 12, 2015, the Paris Agreement was signed, and was ratified by Peru on July 22, 2016, through Supreme Decree No. 058-2016-RE. The Paris Agreement entered into force on November 4, 2016, 30 days after the date on which more than 55 Parties to the Convention, which account for more than 55% of global greenhouse gas emissions, deposited their instruments of ratification. This international agreement determines that all the Party countries communicate their Nationally Determined Contributions every five years in order to have increasingly ambitious commitments.

Also, the Paris Agreement provides for the establishment of a reinforced transparency framework, in order to have periodic and increasingly accurate information on emissions / removals and mitigation and adaptation efforts carried out by countries. In addition, it invites the Parties to the Convention to formulate and present Long Term Low Carbon Development Strategies by 2050. This instrument invites the Party countries to constantly renew their level of national ambition expressed in their NDC. In this way, the global community adds efforts to achieve the goal set.

In compliance with the Paris Agreement, during 2016, Peru addresses climate change by formalizing the long-term adaptation and mitigation goals expressed in the NDC. They involve all sectors and actors in society around common objectives for the country's sustainability.

In this way, Nationally Determined Contributions is expected to generate social, environmental and economic benefits, expressed in improvement of air quality, generation of work including rural areas, improvement in energy security, stabilization of ecosystems, conservation of biodiversity, among others.

On one hand, Adaptation NDCs establish objectives and goals to reduce vulnerability to the dangers associated with climate change in five priority thematic areas: agriculture, forests, fisheries and aquaculture, health and water; concentrating on the incorporation of cross-cutting approaches to disaster risk management, resilient public infrastructure, poverty and vulnerable populations, gender and interculturality, and promotion of private investment.

On the other hand, Mitigation NDCs aim to achieve the goal of reducing Greenhouse Gas (GHG) emissions by 20% with respect to the Business as Usual scenario in the year 2030, which will be implemented through of public and private resources. There is also the ambition to add a 10% reduction, subject to the availability of international external financing and favorable conditions. It is precisely in the fulfillment of this mitigation goals that the energy sector is committed.

In this sense, Peruvian Government has been developing Nationally Appropriate Mitigation Actions (NAMA) in different economic sectors, in order to reduce greenhouse gas emissions. At the energy level, MINEM has been developing and implementing four NAMAs linked to energy efficiency, renewable energy, universal access to sustainable energy and electric ground transportation.

Regarding the first energy NAMA, the MINEM's work, through the General Directorate of Energy Efficiency, consists of supporting the design and implementation of strategies that articulate different energy efficiency initiatives at the national level.

For its part, the NAMA of renewable energy seeks the promotion of a greater contribution of renewable energy in the interconnected electrical system in Peru.

At the same time, the NAMA for Universal Access to Sustainable Energy aims to support the state in the design and implementation of strategies that articulate the different initiatives linked to the implementation of rural electrification with renewable energy resources, mainly in rural areas that are not connected to the electricity grid, as well as the use of clean kitchens.

Finally, the NAMA of electric transport, seeks to support the state in the preparation of the energy sector for a transformation towards clean transport, both in the public and private sectors.





In parallel to all this effort from the energy sector, we must emphasize that the general framework to address climate change from various industries has also evolved. Thus, on April 18, 2018 the Framework on Climate Change Law was published, which purpose is to establish the principles, approaches and general provisions to coordinate, articulate, design, execute, report, monitor, evaluate and disseminate public policies for integral, participatory and transparent management of adaptation and mitigation measures to climate change.

The purpose of this Law is to reduce the country's vulnerability to climate change, take advantage of low carbon growth opportunities and comply with the international commitments with an intergenerational approach.

Finally, it should be mentioned that in January 2020, the Ministry of Environment approved the Regulation of the Framework Law on Climate Change. Thus, this standard is intended to regulate the provisions for planning, articulation, execution, monitoring, evaluation, reporting and dissemination of public policies for the comprehensive management of climate change, aimed at serving the public, seeking to reduce the vulnerability of the face the effects of climate change, take advantage of low-carbon development opportunities and comply with the international commitments assumed by the State before the United Nations Framework Convention on Climate Change. It is worth mentioning that among its most important provisions is the obligation to include adaptation and / or mitigation of the effects of climate change in investment projects of public-private partnerships.

# 5

## Prior consultation

In order to start an investment project which may require the utilization of natural resources, the investor must evaluate if the area of the future project will be located between lands of an indigenous community, or near to these lands, because special regulations exist in our country in order to protect the rights of the indigenous community.

In the 90s, Peru endorsed Convention No. 169 of the International Labor Organization, through which the recognition of indigenous community as a vulnerable group makes it an internal regulation of the country to integrate a special right to be consulted in favor of these communities. Indigenous people have the right to be consulted about any legislative or administrative measure that can disturb their life conditions in connection with the use of their lands.

Moreover, Law No. 29785, Law of the Indigenous and Native Peoples Right to Prior Consultation, and its Regulations approved by Supreme Decree No. 001-2012- 2012-MC, recognize this special right of indigenous people that is different than the regular citizen participation. The Government as an

obligation and/or the community as a right may require following a process of consultation for integrating the considerations of the community if -for example- concessions granted could impact their life in a negative way.

This process is meant not only to protect the rights of the indigenous people, but also, to prevent eventual social conflicts in the investment projects that may affect them directly. Hence, this legal instrument's goal is aimed towards achieving consensus between the promoting entities, such as the Presidency of the Cabinet, Ministries or Administrative Organisms, and the indigenous or native peoples' representatives.

In the case of hydrocarbon and energy projects, the General Bureau of Energetic Environmental Affairs of the Ministry of Energy and Mines has been chosen as the authority responsible to conduct the administrative proceedings that are part of the Prior Consultation. In the case of hydrocarbons, the timing to develop this process by the competent authority is prior to the issuance of the Supreme Decree approving the subscription of Contracts for Exploration and Exploitation (Ministerial Resolution No. 209-2015-MEM/DM), however, it could be considered an early stage for informing the community about the real magnitude of the project because it is before the grant of the concession.

In the case of electricity, there is no special rule but the process is usually carried out before the concession is granted and in parallel with the elaboration of the Environmental Impact Assessment, in order to integrate all the opinions and observations of the community in the study and the investor will be in a better position to inform about all the impacts analyzed in connection with the project.

Now, the prior consultation process has seven stages, which are:

- (i) Identification of the legislative or administrative mean matter of consultation.
- (ii) Identification of the indigenous peoples and their representative organizations.
- (iii) Publicity of the legislative or administrative mean matter of consultation.
- (iv) Information.
- (v) Internal evaluation by the indigenous peoples.
- (vi) Dialogue between the Government and indigenous peoples.
- (vii) Decision.

It must be noted that if a consensus is not met in the last stage of the process, the promoting entities will do their best effort in order to adapt the legislative or administrative means so that it guarantees the indigenous peoples' rights and the improvement of their living conditions. Thus, the lack of consensus does not imply a veto right in favor of the latter.

The decision must take into consideration the following aspects:

- (i) Be in accordance to the promoting entity's competences.
- (ii) Respect the Constitutional and legal frame.
- (iii) Comply with the environmental legislation.
- (iv) Preserve the survival of the indigenous peoples and their collective rights.
- (v) Guarantee communal property and land rights of the indigenous peoples.



Once a decision is reached, a report of the process is submitted to the Interculture Viceministry, which is the public entity in charge of supervising the full process. As of July, 2020, 58 prior consultation processes have taken place. More than ten of them are directly related to the hydrocarbons industry, and the other three are related to the electricity industry:

Stage	Project on Prior Consultation	Tax bases
3	Block 200	Hydrocarbons
4	Block 192 (2019)	Hydrocarbons
	Block 198	Hydrocarbons
	Block 197	Hydrocarbons
6	Block 190	Hydrocarbons
	Block 191	Hydrocarbons
	Block 165	Hydrocarbons
	Anto Ruiz III y IV Hydroelectric Power Plant	Electricity
	La Herradura - El Gallo Hydroelectric Power Plant	Electricity
7	Hydroelectric Power Plant Río Araza	Electricity
	Block 192 (2015)	Hydrocarbons
	Block 195	Hydrocarbons
	Block 164	Hydrocarbons
	Block 189	Hydrocarbons
	Block 175	Hydrocarbons
	Block 169	Hydrocarbons

Source: Ministry of Culture

# 6

## Citizen participation

Citizen participation is a fundamental right recognized by Peruvian Constitution and international agreements. This right involves that the civil society participate in public decisions, or influence in them, looking forward that those decisions represent their interests, either as particulars or as a social group.

In the same way, citizen participation involves all communication mechanisms between government representatives, investors and communities located in the area of influence (direct and indirect) of investment projects, whose objective is not only to inform the community about all the activities and impacts of the project, but also to make them participate in the development of the project by formulating observations and opinions that should be evaluated in order to choose whether or not to include them in the final structure of the project.



At this point, it is important to note that citizen participation will be governed by special rules depending on the industry to which the investment projects belong since the level of sensitivity and social trust reaches different levels in each industry. Moreover, since citizen participation in investment projects is bound to environmental matters, as a general framework there is the Regulation of the Law on Transparency, Access to Information and Citizen Participation of the Environment Sector with respect to which specific regulation in each industry is based.

Regarding citizen participation in hydrocarbons activities, in January 2019, the Ministry of Energy and Mines (MINEM) published the new Regulation on Citizen Participation for the realization of Hydrocarbon Activities, approved by Supreme Decree No. 002-2019-EM, in order to strengthen access rights to information and citizen participation, provide information to entities competent in socio-environmental management and strengthen relations between communities, the State and oil companies.

Thus, the old regulation of 2008 on the subject was demarcated, in order to incorporate improvements in the mechanisms of citizen participation within the processes of oil contracting. Currently, the procedure of citizen participation on hydrocarbons activities is divided in two stages:

- (i) negotiation or render and subscription of the Exploration and/or Exploitation Agreements; and
- (ii) Environment Impact evaluation.

The first stage is carried out by Perupetro S.A. making the procedures previous to the process of negotiation or tender with interested companies until the moment of presentation of the Contractor of the blocks and then the subscription of the Exploration and/or Exploitation agreement.

In this stage, face-to-face events and communication and information mechanisms are realized through which they communicate and spread the projects activities and actions that are being made for the negotiation or tender, as the official introduction of the new contractor to the community when the agreement is subscribed.

This stage is subdivided in the following three phases: before the beginning of the process of negotiation or tender; before the consignment of the project of the agreement to the MINEM; and after subscription of the agreement.

At the end of those procedures, Perupetro must emit:

- i) a report containing the detail and analysis of the process of citizen participation developed during the first and second phase that will be remitted to Hydrocarbons General Direction (HGD) of MINEM to be considered in the process of approbation of the exploration and/or exploitation agreement; and,
- ii) a report containing the detail and analysis of the process of citizen participation developed in the third phase that will be remitted to Environment Authority (SENACE) and Environment General Direction (DGAH) to be considered during the procedure of the respective environment impact evaluation.



Likewise, those reports will be published by Perupetro in its institutional portal and will be remitted to the regionals and locals authorities that participated in the face-to-face events in order to disseminate it to the population.

This second stage is carried out by investors before the presentation of the environmental impact study, and during the environmental impact study evaluation. During the first one, the owner will present the citizen participation in front of the competent environmental authority; and during the second one, the owner accompanied by the competent environment authority will inform to the population about the possible environmental and social impacts that can generate the project and the measures to be executed for avoid them.

Also, in the second one, the investor will present an executive summary that will sum up all the most relevant aspects of the environmental impact study through texts or audiovisuals aids that facilitate the comprehension of the communities, the same that will be sent to the provincial and district municipality of the area of the influence of the project and to the indigenous populations, natives and/or rural communities, if applicable.

Regarding citizen participation in electrical activities, there is the Ministerial Resolution No. 223-2010-MEMDM, which approves the Guidelines for Citizen Participation in Electric Activities. The investors must present a Citizen Participation Plan for the stages before, during the elaboration of the environmental impact study and after it is presented, with a round of information workshops for each stage.

The updating of the regulations in this sector is necessary, because the institutions of the environmental sector in terms of certification

have evolved. Since the process of citizen participation in the electrical industry is linked to the presentation and approval of the environmental impact studies, it is advisable to check if the existence of SENACE as responsible for environmental certification and the implementation of advanced social measures represent an opportunity to restructure the process of citizen participation to achieve greater effectiveness in bringing the investor and the government closer to the impacted population.

In that sense, in June 2020 the Draft Supreme Decree that would approve the Regulation of Citizen Participation for Electric Activities was published. This project contains improvements and incorporates new mechanisms for citizen participation applicable to Environmental Studies and Complementary Environmental Management Instruments, which are intended to disseminate information and generate spaces for the formulation of opinions and suggestions from the population, protecting their Right to the participation of the communities in the area of influence of the electrical projects. Among the new mechanisms for citizen participation proposed, the informative meeting, the distribution of informative materials, participatory dissemination and digital publication stand out. Also, the procedure for the evaluation and modification of the Citizen Participation Plan corresponding to semi-detailed and detailed environmental impact studies is proposed.

In addition to this, it is contemplated that the conduction of all the participatory workshops of the environmental studies, is in charge of the Competent Environmental Authority, in order that the State has a presence from the beginning of citizen participation in the larger projects.



## 7

# Government Response against COVID-19

## **Reactiva Peru, the largest guarantee program of the national government created in the context of COVID -19**

The Executive Power declared the State of National Emergency (SNE), as of March 16, 2020 and ordered compulsory social isolation as a measure to deal with the health emergency caused by COVID-19.

These measures affected the dynamics of diverse sectors like productive, extractive and service sectors, forcing many companies to suspend their economic activities untimely and temporarily.

The significant decrease of working capital generated in the companies serious liquidity problems to face their short-term obligations

with their workers and with their suppliers, which constituted a great risk for the continuity of the chain of payments of the national economy.

In consequence, on April 6, 2020 the Executive Power published the Legislative Decree No. 1455 (Legislative Decree) in order to reduce the serious economic impact of social isolation on the country's companies as well as to ensure continuity in the payment chain. Through the Legislative Decree, the Reactiva Peru Program (Reactiva Peru) was created in order to guarantee, up to the sum of 60 billion of soles, loans that the financial system companies (FSC) grant to companies to replace their working capital, so they can meet their labor and supplier obligations. This support is materialized through the issuance of guarantees from the Central Government in favor of the loans granted under the Reactive Peru Program.

To regulate the operational aspects for the implementation of Reactiva Peru, the MEF issued, on April 13, 2020, the Ministerial Resolution No. 134-2020-EF/15 through which it approved the Operating Regulations of the Reactiva Peru Program (Operating Regulations).

Reactiva Peru is the largest guarantee program of the Peruvian Government in national history, equivalent to 8% of GDP according to statements made by MEF. It comprises two well-marked phases. In the first phase, the Government issued guarantees for S/ 30 billion in favor of the loans granted by the FSC to companies of various sectors and sizes. According to the Peruvian Central Bank (BCRP), in the first phase it was possible to grant loans to companies at an average rate of 1.12%, below the inflation rate.



The second phase of the Reactiva Peru was characterized by the expansion of the amount of the program by up to S/ 30 billion in addition to those initially authorized - totaling S/ 60 billion - to ensure continuity in the payment chain in the face of the impact of COVID-19, through Legislative Decree No. 1485 published on May 10, 2020. Likewise, this second phase is characterized by the prioritization of the Government to the financing of MYPES before the greater vulnerability of this business segment as a result of the paralysis of a large part of the productive apparatus due to the extension of the period of the SNE.

#### **What conditions do these Loans have?**

The main conditions of the loans guaranteed by the Reactiva Peru (the "Loan") are the following:

- (i) the Loan funds can only be used to replenish the working capital of the companies for the payment of short-term obligations like workers and suppliers;
- (ii) the maximum amount of the Loan is 10 million of soles;
- (iii) its maximum term is 36 months, including a grace period of up to 12 months;
- (iv) the currency of the Loan is exclusively in soles; and,
- (v) it has a partial guarantee from the National Government (from 80% to 98% coverage).

#### **What is the applicable interest rate and fees?**

The average interest rate of Reactiva Peru Loans was 1.12% during the first phase. The second phase is currently being developed, in which the BCRP has placed 19.5 million of soles at an average interest rate of 1.55% during the period from June 30 to July 15, 2020.

It's important point out that, in the framework of the Reactiva Peru, the Central Bank is the one who provides the funds to the FSC so that they, in turn, channel said funds through the Loans to their final clients.

#### **What are the eligibility criteria to access the Loan?**

To access the Reactive Peru, the company -be it large, medium, small and micro-business- must meet six minimum requirements:

- (i) must not have tax debts in coercive collection for periods until 2019, greater to 1 Tax Unit (S/ 4,300) at the date of requesting the loan;
- (ii) 90% or more of its debts must be classified as of February 2020 of "Normal" or "With Potential Problems" in the SBS risk center, this requirement is also understood as having been fulfilled if the company does not have any classification in the last 12 months;
- (iii) it must not be a company related to the granting FSC;
- (iv) it must not be included in cases of corruption and related crimes under the scope of Law 30737;
- (v) must not engage in the activities indicated in the "Exclusion List" contained in the Operating Regulations (illegal activities); and,
- (vi) not be disabled by the OSCE State Contracting Court.



As for the guarantee granted by the Reactiva Peru, it provides the following coverage percentages on the Loans, covering the debit balance of the credit granted, according to the following detail:

Loans by companies (S/)	Guarantee (%)
< 90 000	98%
90 001 < 750 000	95%
750 001 < 7 500 000	90%
7 500 001 < 10 000 000	80%

### What are the strengths and results of the Reactiva Peru?

Undoubtedly, the main benefit is the immediate replacement of the working capital of the benefited companies to reactivate their operations, which is a great relief for many companies of various sectors and sizes, as well as for their workers and suppliers.

According to the statistics published by the MEF, the main sectors benefited from the Reactiva Peru, as of May 29, 2020, were:

- (i) the commerce sector with 30,211 companies benefited from the total of participating companies, who took a total of loans for S/9,000'317,919;
- (ii) the manufacturing industry sector with 8,998 benefited companies, who took loans for a total of S/4,000'237,605; and,
- (iii) the real estate activities sector with 8,491 beneficiaries, who took loans for S/3,000'122,472.

According to the latest data published by the BCRP, as of July 15, 2020, a total of 26 financial entities, participating as channelers, have been awarded funds under Reactiva Peru for a total of S/49,571 million between the first and second stage of the program. With

which, as of June 30, 2020, 75,127 MYPES have been registered benefiting from the Loans of this program, which represents 77% of the total number of companies taking out this guaranteed credit, which has allowed the chain of payments to be sustained and to avoid the fall of loans to labor-intensive sectors (services and commerce).

### Infrastructure Plan "Arranca Perú"

According to the National Institute of Statistics and Informatics (INEI), during the SNE due to the coronavirus pandemic, 2.3 million people lost their job in Peru.

Thus, to reactivate the economy and generate working positions, the Peruvian Government approved the "Arranca Peru" plan, which contemplates the execution of S/6,436 million (USD1.83 million) in public investment projects to be carried out in the second half of 2020.

This plan is intended to reactivate four key sectors of the economy: housing, work, agriculture, and transportation and generate 1,009,704 working positions.

In the case of the Transport and Communications portfolio, the works contemplate the maintenance of the national road network and the neighborhood road network, for an amount of S/3,987 million, and generating 570,000 jobs.

For the Housing sector, two lines of action have been established. The first is related to the financing of bonus to raise 20,000 new homes. This measure will mean an investment of S/535 million, and 80,000 new jobs. The second is proposing the construction and improvement of tracks and sidewalks, through intervention in public spaces, for S/937 million; 57,079 jobs would be generated.



For the Agriculture sector, the improvement of water catchment systems and irrigation channels was announced, as well as the maintenance of irrigation channels and drains, for S/373 million, and generating 76,555 jobs.

Finally, regarding the Work sector, in addition to the “Work Peru” plan, the Government will allocate an additional investment of S/700 million to generate 226,070 new temporary jobs.

### **Electric Bonus for Vulnerable Households**

The Electric Bonus is a state subsidy of S/160 (USD46), exceptionally and for only time, destined to the payment of electricity bills of the rural population. The bonus will be applied to bills from March to December 2020 until the bonus amount is exhausted. The bill receipt to be subsidized will be the one of December 2020, the month in which the benefit ends.

For this purpose, the Government allocated an amount of S/827.7 million (USD236.49 million), which is estimated to benefit 5.3 million users nationwide. The bond is estimated to cover the energy consumption of 11,4 million Peruvians.

### **Tax Measures**

Since March 13, 2020, different entities have been implementing various tax related measures regarding SNE. In this regard, these measures can be grouped into two categories:

- (i) specific measures for small and medium taxpayers who in fiscal year 2019 would have obtained net business income of up to 5,000 UIT (USD63,142,857), and
- (ii) general measures for all taxpayers.

### **Measures intended for small and medium-sized companies:**

- ▶ Extension of the due dates for the presentation of the 2019 annual IT tax return.
- ▶ Extension of the due dates for the declaration and payment of monthly tax obligations from March 2020 (for example, Value Added Tax and IT Prepayments).
- ▶ Extension of the maximum dates of delay of the Electronic Sales and Income Book and the Purchase Book.
- ▶ Extension of the deadlines for sending informative declarations and communications from the Electronic Issuance System to the Tax Authority.
- ▶ Facilities to present the request for the return of the export input VAT from March 2020.

### **General measures for all taxpayers:**

- ▶ An emergency procedure was established to request the free disposition of amounts deposited in the VAT Detraction account.
- ▶ SUNAT decided to apply its discretionary faculty not to sanction infractions incurred by tax debtors during the SNE.
- ▶ Decrease from 1.2% to 1% per month of the default interest rate applicable to tax debts managed by SUNAT in national currency, and from 0.6% to 0.5% for tax debts in foreign currency. In the case of returns, a monthly rate of 0.42% is set for returns in national currency made for payments made improperly or in excess, while a rate of 0.25% is set for returns in foreign currency.
- ▶ Creation of SUNAT's Virtual Desk to facilitate the filling of virtual documents (for example, for procedures related to tax debt and refunds). For its part, the Tax Court has set up a virtual desk for the presentation of files related to pending proceedings.



- ▶ Flexibilization of the requirements to deduct expenses due to waste: reduction of the deadline for communicating the act of destruction to SUNAT when it was carried out before a Public Notary or Peace Judge, as well as the presentation of a report to support the destruction of stocks when the its cost do not exceed 10 Tax Units in the fiscal year.
- ▶ Extension of the deadline for the submission of financial information for the automatic exchange of information in accordance with what is agreed in international treaties and in the decisions of the Andean Community Commission.
- ▶ Automatic registration in SUNAT's Taxpayer Registry of the incorporated companies and user and password assignment to access the SUNAT virtual system.
- ▶ Postponement of the date of designation of electronic issuers and granting of other facilities for those taxpayers who still issue printed receipts.
- ▶ Tax audits and citations scheduled by SUNAT were suspended, as well as oral reports before the Tax Court.

**The Congress delegated faculties to the Executive Power to legislate in tax matters, for a period of 45 calendar days, thus approving the following provisions**

- ▶ Expansion of the scope of the Special Regime for Early Recovery of the IGV to promote, through imports and / or local acquisitions, the acquisition of new capital goods, and extension of the due date to for taxpayers to subscribe and benefit from this regime until the 31st December 2021.
- ▶ Incorporation of the Exceptional Regime of rules for the determination of Income Tax prepayments for the months of April to July 2020, through which, the option is granted

to the taxpayer to reduce or suspend said payments in function to the comparison of net income obtained in the same month of the fiscal year 2019.

- ▶ Extension of the period for carrying forward total net losses recorded in the financial year 2020 for up to 5 years, computed from the 2021 (the previous term is four years).
- ▶ Approval of the Special Depreciation Regime and modification of the depreciation periods applicable from 2021, for different fixed assets acquired in the years 2020 and 2021, as well as for buildings and constructions started from 2020:

Asset	Max. Annual Rate 2020	Max. Annual Rate 2021
Buildings and constructions	5%	20%
Processing and data equipment	25%	50%
Machinery and equipment	10%	20%
Ground Transportation Vehicles (except railways)	20%	33.3%
Hybrid or electric Ground transport vehicles (except railways)	20%	50%

- ▶ Rules and special depreciation rates were established for buildings and constructions (maximum linear rate of 20%) and vehicles for lodging establishments, travel and tourism agencies, restaurants and companies that perform public non-sporting events (maximum rate of 33.3% per year). These sectors were particularly hit by the pandemic crisis.

- ▶ Approval of a new Deferral and / or Fractionation Regime of tax debts administered by SUNAT, the maximum terms and applicable interest rate are:
  - Deferral only: up to 6 months.
  - Fractionation only: up to 36 months.
  - Postponement and fractionation: up to 6 months of postponement and up to 30 months of fractionation.
  - Interest rate: 40% of the Default Interest Rate.

## Labor Measures

### Labor aspects

- ▶ Guide for prevention, surveillance and control of Coronavirus in the workplace is approved. It establishes mandatory preventive actions for employers and recommend organizational measures to avoid infection of COVID-19.
- ▶ Implementation of remote work when the nature of the work allows it and in the case of risk groups.
- ▶ A protocol issued by the Labor Authority (SUNAFIL) for monitoring compliance with the labor measures implemented during the SNE was approved.
- ▶ Measures were implemented for the organization and operation of the Labor Courts and for the management of judicial processes: restriction of interviews of individuals and lawyers, demand for using electronic court boxes, prohibition of physical notifications and hearings, remote processing of electronic files, among others.
- ▶ Measures for the public and private sector: modification of shifts and hours of the working day when possible, to avoid people concentration.
- ▶ Extraordinary measures to reduce the impact of the emergency declaration: release of the Workers' Compensation for Time of Service fund for up to S/2,400 (USD686), temporary and exceptional suspension of the provisional contribution in the Private System of Pensions for the month of April 2020, and creation of a subsidy for employers equivalent to 35% of employees salary, provided said employees receives a gross salary of up to S/1,500 (USD429). Extraordinary withdrawal of Private Pension Funds was allowed.
- ▶ The modality of suspension of the work contract was approved for employers in the private sector, provided that remote work or compensable-paid leave cannot be implemented.
- ▶ The use of electronic signature or another type of electronic signature is authorized for the renewal of temporary employment contracts.
- ▶ Measures were approved to ease the accomplishment of several employer liabilities: suspension of audits for the Occupational Health and Safety Management System, suspension of mandatory employee occupational examination for most cases, use of electronic and technological means in labor inspection, mandatory electronic notification, among others.



## Immigration

- ▶ The Peruvian borders were closed since March 16, 2020, which has been extended by the extension period of the SNE.
- ▶ The registration in Peruvian Consulates of Peruvian nationals and foreigners with habitual residence in Peru was ordered, to assist them in returning to the country because of the restrictions established to control the expansion of COVID-19.
- ▶ The rescheduling of appointments that had been granted by Migrations was authorized.
- ▶ The deadlines and the fine for excess permanence were suspended, granting the foreigner a period of 45 days to regularize their immigration status.
- ▶ The terms of the special permits granted were extended:
  - The foreigner with a process in progress who left the country with authorization to stay outside the country, and who has not been able to return due to the closure of borders.
  - The foreigner with a resident visa who did not return to Peru within the maximum period of 183 days due to the closure of borders.
  - The foreigner with a permanent visa, who did not return to Peru within the maximum period of 365 days due to the closure of borders.
- ▶ The deadlines provided in the Single Text of Administrative Procedures of the National Superintendence of Migration, in relation to the administrative procedures and services that oversee Migrations, were suspended for a period of thirty (30) business days.
- ▶ The term of validity of the temporary or resident migratory status held by the foreign person was extended, from the entry into force until the end of the state of emergency decreed by the Peruvian State.
- ▶ The execution period of the exit order to leave the country of the foreign person was suspended.
- ▶ The suspension of the processing time deadlines of the administrative procedures in charge of Migrations for an additional 15 business days was extended with anticipated effectiveness to April 29, 2020.
- ▶ The promotion of online services related to the Inscription in the Foreign Central Registry was ordered, as well as the Proof of Issuance of the Immigration Card and the Temporary Residence Permit Card.
- ▶ The Virtual Migration Agency was created, now Digital Migratory Agency, allowing online immigration services, such as CE Registration (for those foreigners whose immigration change of migratory status processes were approved and are in national territory), CE Duplicate and CE Emission Certificates (in favor of those foreign citizens who, having carried out the registration process in the Foreign Central Registry and Issuance of the Immigration Card, duplicate of the immigration card and/or issuance and duplicate of the temporary residence permit for Venezuelans, would not have been able to obtain the immigration card or the PTP), and obtainment of permit to sign contracts. After that, new services have been implemented in this digital agency, to limit the assistance of foreigners to the Migration offices, such as the change of immigration status and the extension of residence.
- ▶ It was ordered that the taking of fingerprints will be deferred in the procedures and services, empowering the competent areas to capture them once the circumstances caused by the spread of COVID-19 have been overcome.





- ▶ The suspension of the administrative sanctions that Migrations could impose on foreign persons in an irregular situation due to excess permanence when leaving the country; as well as for those who have entered the national territory without carrying out immigration control.
- ▶ The technical guide: Protocol for attention to travelers entering and leaving the country on special flights was approved.
- ▶ It was established that all travelers must complete the online form of "Traveler's Electronic Health Affidavit and commitment to isolate or quarantine" within 72 hours of the trip.
- ▶ The use of the following Certificates was authorized: "Certificate of Issuance of Nationality Title by Registration of Peruvian by marriage", "Certificate of Issuance of Nationality Title by obtaining Peruvian Nationality by naturalization" "Certificate of Issuance of Nationality Title for recovery of Peruvian Nationality ", " Certificate of Issuance of Nationality Certificate for obtaining Dual Nationality ", Certificate of Issuance of Nationality Title for Registration of Peruvian children born abroad of legal age" and "Certificate of Issuance of Nationality Title by Registration of Peruvian children born abroad, minors ", in favor of citizens who, having obtained their“ Nationality Title ”, could not have obtained the physical copy of it, due to the SNE due to COVID -19.



## 8

Anti-  
corruption  
regulations

Since 2016, Peru has the specific Law No. 30424 that regulates the administrative responsibility of corporations in case of corruption crimes stated in the Criminal Law. This Law establishes the scope of the responsibility of corporations for actions that its partners, directors, managers and other empowered related subjects may have done on its behalf or for its benefit.

In case of guilt, according to this Law, corporations are subject to fines, become disqualified entities when contracting with the Government, or are subject to the cancellation of specific licenses and authorizations.

In this regard it is important to mention that Law No. 30424 also states that corporations that may have developed a "Compliance Program" according to its activity, needs and risks in order to prevent the commission of corruption crimes will be exempted from administrative responsibility.

Due to the recent corruption acts detected in the infrastructure sector during 2017, the Government introduced measures to assure the continuity of investments in the country. In January of 2017, Legislative Decree No. 1341 established in its Fifth Final Complementary Provision that certain impediments regulated in the State Contracting Law would be applicable to the processes for entering into Public-Private Partnership contracts. This type of contract could not be celebrated by persons convicted, in the country or abroad, or who, directly or through their representatives, had admitted the commission of corruption crimes, the same limitation being applicable to legal persons whose legal representatives or related persons would have been convicted or had admitted the commission of corruption offenses.

In addition, Emergency Decree No. 003-2017 was enacted in February of 2017 for a one year term. The purpose of this regulation was to approve measures that prevent the paralysis of the execution of public works or public-private partnerships and the breakdown of the chain of payments that put the economic performance of the country at serious risk, as a consequence of acts of corruption carried out by or through of the concessionary companies or contractors, or of their partners or parts of the consortium, that have been condemned or have admitted the commission of crimes against the public administration or money laundering, in order to contribute to economic sustainability and to protect the interests of the State.



A month later, in March of 2017 the Supreme Decree No. 068-2017-EF was approved with the objective of obligatorily establishing that Public-Private Partnership contracts should include an anti-corruption clause, under sanction of nullity. Being that when the contract ends due to causes attributable to the investor derived from the application of the anti-corruption clause established in the respective contract, no compensation would be paid in favor of the investor, for damages.

All these anti-corruption regulations were approved as a reaction to the Lava Jato scandal and its implications in our country. This explains why the application of the aforementioned temporal Emergency Decree was extended by means Emergency Decree No. 003-2018 for one month, during March 12, 2018. After this, in March 13, 2018, a proper Law to avoid collateral negative effects was enacted.

This recently enacted regulation is Law No. 30737 and its purpose was to introduce new measures and liabilities for corporations related (as partners, joint-parties or any other form stated in the Corporate Act) to other corporations that are subject to judicial processes for corruption breaches according to Law No. 30424.

Another relevant consideration of the Decree consists in the liability and responsibility of related corporations to create "Compliance Programs" according to each corporation's needs, risks and characteristics to prevent the commission of violations and corruption crimes in the terms and conditions stated in Law No. 30424. This Compliance Program also entails responsibility to hand in information to Authorities periodically regarding the development of the business and its financial status.

Likewise, another substantial change consists in the introduction of incentives for effective collaboration, the thirteenth final supplementary provision of Law No. 30737 allows the Public Prosecutor's Office to conclude Effective Collaboration Agreements with legal entities or legal entities that decide to collaborate effectively in investigations under the Public Ministry, provided that it allows the identification of those involved in the investigation of criminal acts, and the information reached would be effective, corroborable and timely. The approval of the Effective Collaboration Agreement by the judicial bodies, at the discretion of the Public Ministry, may exempt, suspend or reduce the legal entity from the legal consequences derived from the crime; without implying waiver of the corresponding civil compensation.

In March 2019, the Public Prosecutor's Office in charge of the Lava Jato case delivered to the Judicial Court the Effective Collaboration Agreement signed with the Brazilian company Odebrecht, in order to submit it to the control of legality.



# Appendix



# REGULATORS AND STAKEHOLDERS

## 1. Ministry of Foreign Affairs: Executive Office for Economic Promotion - DPE

The Executive Office for Economic Promotion (DPE) is the institution of the Ministry of Foreign Affairs (MRE) responsible for coordinating with Peruvian missions abroad in an effort to promote Peru as a country capable of providing goods and services in international markets, as well as positioning it as a world-renowned tourist destination, and a country with interesting business and investment opportunities in different economic sectors.

It should be noted that the DPE has a Quality Management System certified with ISO 9001:2008 International Standards, governed under the values of equality, social commitment, honesty, transparency, and teamwork, thus ensuring that the needs of its national and international users are met. ([www.rree.gob.pe](http://www.rree.gob.pe))

## 2. Ministry of Energy and Mines - MINEM

This is the central and governing body for the Energy, Hydrocarbons and Mining Sector, a part of the Executive Branch. Its purpose is to formulate and assess national policy in matters of sustainable development in mining- hydrocarbon-power activities. It is the governing authority in environmental matters in reference to hydrocarbons-mining-energy activities. ([www.minem.gob.pe](http://www.minem.gob.pe))

### 3. Ministry of Economy and Finance - MEF

The Ministry of Economy and Finance is an entity of the Executive Branch responsible for planning, directing, and controlling matters related to the budget, treasury, debt, accounting, fiscal policy, public spending, and economic and social policies. It also designs, establishes, performs, and supervises national and sector policies under its competence, assuming a guiding role therein.

([www.mef.gob.pe](http://www.mef.gob.pe))

### 4. Peruvian Private Investment Promotion Agency - ProInversión

ProInversión is the Peruvian investment agency in charge of the promotion of business opportunities with high growth and profitability expectation in Peru. Its purpose is to promote investment unrelated to the Peruvian government by private parties in order to boost Peru's competitiveness and development and to improve the well-being of the population.

Likewise, its vision is to be considered by investors and by the public as an efficient and strategic option for the development of investments in Peru.

ProInversión provides information to potential investors regarding the incorporation of a legal entity, identifying investment by industries and investment projects (granted and pending), among other topics.

([www.proinversion.gob.pe](http://www.proinversion.gob.pe))

### 5. Presidency of the Cabinet - PCM

This is the technical-administrative body covered by the Executive Law; its highest authority is the President of the Cabinet. It coordinates and conducts a follow-up on the Executive's multi-sector policies and programs, coordinates actions with Congress and independent constitutional bodies, among other roles.

([www.pcm.gob.pe](http://www.pcm.gob.pe))

### 6. Ministry of Environment - MINAM

This is the nation's environmental authority, the overseeing entity of the National Environmental Management System (SNGA), and a part of the Executive Branch. Its main functions are focused in promoting environmental sustainability by preserving, protecting, recovering and securing the environment, ecosystems and natural resources.

([www.minam.gob.pe](http://www.minam.gob.pe))

### 7. Ministry of Labor and Employment Promotion - MTPE

This is the body governing labor in Peru, with all powers necessary to lead the implementation of policies and programs for generating and improving employment, and also responsible for enforcement of legislation for labor matters.

([www.mintra.gob.pe](http://www.mintra.gob.pe))



## 8. National Superintendency of Tax Administration - SUNAT

A decentralized public entity in the Economy and Finance Sector that enjoys economic, administrative, functional, technical and financial autonomy. It is the main tax-collecting agency in the Peruvian economy. ([www.sunat.gob.pe](http://www.sunat.gob.pe))

## 9. National Fund for the Finance of the Corporate Activity of the Peruvian Government - FONAFE

A Public Law company attached to the Economy and Finance Sector created by Law No. 27170 in 1999, responsible for regulating and directing the State's business activity. ([www.fonafe.gob.pe](http://www.fonafe.gob.pe))

## 10. Supervisory Body of Private Investment in Energy and Mines - OSINERGMIN

This is the regulatory, supervisory body that regulates, enforces and oversees the activities undertaken by internal public-or-private-law legal entities and individuals in the electricity, hydrocarbons and mining sub-sectors. ([www.osinergmin.gob.pe](http://www.osinergmin.gob.pe))

## 11. Economic Operation Committee of the National Interconnected System - COES

Private entity conformed by all generators, transmitters, distributors and free users of electricity, whose facilities are interconnected. Purpose of the COES is to coordinate the operation of the Interconnected Electrical National System (SEIN) at the lowest cost and give safety and quality to the supply of electricity to the country. ([www.coes.org.pe/portal](http://www.coes.org.pe/portal))

## 12. Environmental Assessment and Supervisory Board - OEFA

The OEFA is the guiding entity of the National Environmental Assessment and Supervisory System (SINEFA) and is responsible as such for the evaluation, supervision, and auditing of the compliance with environmental laws nationwide, integrating the efforts of the State and society in a coordinated and transparent manner to ensure the effective management and protection of the environment. ([www.oefa.gob.pe](http://www.oefa.gob.pe))

## 13. General Bureau of Environmental Health - DIGESA

This is the technical-regulator body in aspects related to basic sanitation, occupational health, hygienic food, zoonosis and environmental protection. It issues regulations and assesses environmental health processes in the sector. It is an entity under the Ministry of Health. ([www.digesa.minsa.gob.pe](http://www.digesa.minsa.gob.pe))





#### 14. National Forest and Wildlife Service - SERFOR

National Forestry and Wildlife Authority of Peru and the governing body of the National Forestry and Wildlife Management System (SINAFOR). Started functions in 2014 with the aim of promoting the sustainable and participatory management of forest and wildlife resources, and the use of their ecosystem services.  
([www.serfor.gob.pe](http://www.serfor.gob.pe))

#### 15. National Environmental Certification Service for Sustainable Investment - SENACE

The SENACE is a public specialized entity in charge of the review and approval of the detailed Environmental Impact Studies (EIA-d) related to nationwide public, private or mixed capital investment projects which contemplate activities, constructions, building sites and other commercial activities or services that may cause significant environmental impacts. This entity is under the Ministry of Environment.  
([www.senace.gob.pe](http://www.senace.gob.pe))

#### 16. National Service for Natural Areas under State Protection - SERNANP

This is a public specialized entity responsible for directing and establishing the technical and management criteria for the preservation of Protected Natural Areas (ANPs), and overseeing the conservation of biological diversity. It is an entity under de Ministry of Environment.  
([www.sernanp.gob.pe](http://www.sernanp.gob.pe))

#### 17. National Water Authority - ANA

This is the nation's water authority. Its purpose is the conservation and development of the hydric resources within a hydrographic river basin.  
([www.ana.gob.pe](http://www.ana.gob.pe))

#### 18. National Council of Science, Technology and Technological Innovation- CONCYTEC

Leading institution of the National System of Science and Technology and Technological Innovation (SINACYT), integrated by the Academy, the State Research Institutes, business organizations, communities and civil society. Its purpose is to regulate, direct, guide, encourage, coordinate, monitor and evaluate the actions of the State in the field of Science, Technology and Technological Innovation and to promote developments through concerted and complementarity action between the programs and projects of the public, academic, business, social organizations and individuals.  
([portal.concytec.gob.pe](http://portal.concytec.gob.pe))

**19. Perupetro**

Perupetro is the state-owned company that promotes, negotiates, signs and supervises exploration and production contracts, on behalf of the Peruvian State.  
([www.perupetro.com.pe](http://www.perupetro.com.pe))

**20. Petroperu**

Petroperu is a state-owned company of private law that carries out exploration, exploitation, transport, and refining activities.  
([www.petroperu.com.pe](http://www.petroperu.com.pe))

**21. National Confederation of Private Business Institutions - CONFIEP**

The National Confederation of Private Business Institutions (CONFIEP) brings together and represents private business activities within Peru and abroad. Its principal objective is to contribute to the process of sustained economic growth, based on investment and job creation from the perspective of individual effort and initiative, and the promotion of entrepreneurship and private property.  
([www.confiep.org.pe](http://www.confiep.org.pe))

**22. National Society of Mining, Petroleum and Energy - SNMPE**

This is a nonprofit organization, which groups the companies related to the mining, oil & gas and energy related activities in the country.  
([www.snmpe.org.pe](http://www.snmpe.org.pe))

**23. National Society of Industries - SNI**

The SNI is a non-profit private organization created to promote the development of manufacturing industry in Peru, guaranteeing the freedom and responsibility required to perform business activities according to Peruvian market economy assurance.  
([www.sni.org.pe](http://www.sni.org.pe))

**24. Peruvian Hydrocarbons Society - SPH**

The SPH is the main hydrocarbons guild in Peru. Founded in 2013, it groups the main companies dedicated to exploration and exploitation activities in the country.  
([www.sphidrocarburos.com](http://www.sphidrocarburos.com))

**25. Peruvian Renewable Energies Society - SPR**

Non-profit civil association composed of companies and organizations that are committed to the development of non-conventional renewable energies.  
([spr.org.pe](http://spr.org.pe))

**26. Peruvian Chamber of Renewable Energies - CPER**

National organization of civil society whose purpose is to support the fight against climate change through the promotion of renewable energies, and support the process of transition from fossil energy investments to renewable energies investments.  
([www.camaraperuanadeenergiasrenovables.org.pe](http://www.camaraperuanadeenergiasrenovables.org.pe))



### 27. Peruvian Association of Solar Energy - APES

Non-profit institution, created in 1981 with the purpose of promoting, disseminating and encouraging training, research, development and applications of renewable energy, the rational use of energy, and respect for the environment in Peru.  
([www.perusolar.org/](http://www.perusolar.org/))

### 28. Peruvian Chamber of Vehicular Natural Gas - CPGNV

The CPGNV, founded in 2004, is a private nonprofit institution that promotes the development and use of natural gas for vehicles in Peru, providing facilities to companies dedicated to the production, transportation, distribution, supply and marketing of the vehicular natural gas and related products.  
([www.cpgnv.org.pe](http://www.cpgnv.org.pe))

### 29. COMEXPERU

COMEXPERU is the private association that comprises the leading companies involved in foreign trade in Peru. Its main purpose is to contribute to the improvement of competitive conditions within a free market, which will make Peru an attractive destination for private investment.  
([www.comexperu.org.pe](http://www.comexperu.org.pe))

### 30. Lima Chamber of Commerce - CCL

The CCL, founded in 1888, is a private entity that promotes free enterprise and business development by enforcing its legitimate rights, facilitating new business opportunities, providing assistance and services and improving their competitiveness. It is one of the most representative business associations that has more than 13,500 associated companies.  
([www.camaralima.org.pe](http://www.camaralima.org.pe))

### 31. American Chamber of Commerce of Peru - AMCHAM

The American Chamber of Commerce of Peru (AmCham Peru) is an independent and non-profit organization, founded on January 17, 1968, that represents Peruvian, American and foreign companies. It has about 3,000 members representing more than 580 associated companies.  
([www.amcham.org.pe](http://www.amcham.org.pe))

### 32. Canadian-Peruvian Chamber of Commerce - CCCP

The Canadian-Peruvian Chamber of Commerce is a non-profit institution, whose objective is to become a reliable and informative partner in the promotion and development of close commercial relations between Canada and Peru.  
([www.canadaperu.org](http://www.canadaperu.org))





### 33. Peruvian-Chinese Chamber of Commerce - CAPECHI

CAPECHI is a private institution founded on August 23, 2001 to encourage commercial exchange between Peru and China, assisting companies from both countries in promoting business. CAPECHI is recognized by the embassy of the Republic of China as the only official binational chamber of commerce in Peru.

([www.capechi.org.pe](http://www.capechi.org.pe))

### 34. Peruvian-French Chamber of Commerce and Industry - CCIPF

Founded in 1945, the CCIPF is a non-profit civil association. The CCIPF belongs to the first private global network of business relationships and contacts in the world: the Union of French Chambers of Commerce and Industry Abroad. CCI France International brings together 126 French Chambers of Commerce and Industries spread over 95 countries and has 35,000 affiliated companies.

([www.ccipf.com](http://www.ccipf.com))



# How can EY help?

EY Peru has a global focus on hydrocarbons and electricity, with over 1,700 global professionals including engineers, accountants, economists, administrators and lawyers. Our global team is closely networked and shares industry and technical knowledge to provide our clients with seamless global service. Some of our specialist hydrocarbon and electricity-based services include:

## Environment and sustainability

Providing an extensive range of services in areas such as sustainability reporting and assurance, sustainability strategy, reputation issues, environmental risk management, greenhouse gas emissions advisory, renewable energy and emissions trading.

## Hydrocarbons and electricity advisory

Improving supply chain responsiveness to demand volatility; delivering core business re-engineering (e.g., merging a number of blocks mines into one management structure), and delivering projects aimed at reducing costs or increasing production.

## Mergers and acquisitions advisory

Mergers and acquisitions, at either the holding company or asset level, require specific knowledge and skills in order to complete transactions. The knowledge and skills required relate to the regulatory environment, including the rules and regulations of each country's stock exchange, accounting, legal, structuring and taxation disciplines, in addition to an understanding of transaction value-drivers.



### Valuation and business modeling (V&BM)

Providing a range of services to companies in the hydrocarbon sector including valuations for purchase price allocation / acquisition accounting, tax planning, finance and stamp duty purposes and containing specialists with extensive skills ranging from valuations of businesses and intangible assets to specialized oil & gas capital equipment and real estate. Further V&BM has deep expertise in model building and review and is able to construct or review life of mine cash flow models as part of an acquisition strategy.

### Project finance advisory

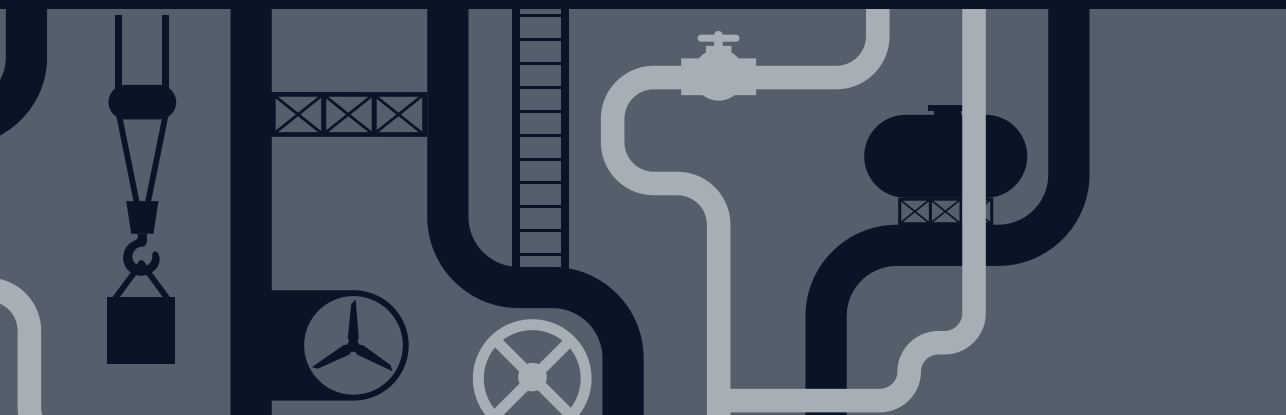
Advising on the development, optimization and implementation of finance plans covering the full range of project financing options for resources projects, non and limited recourse debt and tax effective leasing, as well as a number of associated infrastructure projects such as preparation plants, conveyor systems, electric transmission lines, and gas pipelines.

### Transactions advisory

Our global transaction capability covers over 80 countries and comprises over 7,000 professionals. These transaction professionals work across many elements of the transaction life cycle dealing with critical areas of financial due diligence, tax due diligence and structuring, valuation and business modeling and transaction integration.

### Transaction integration

Providing commercial and operational due diligence, integration planning and methodology development, synergy assessment, and integration program management, corporate strategy advice on market opportunities and areas to exploit along the companies value chain, as well as practical operational advice in areas such as overhead and capital expenditure cost reduction, process efficiency, supply chain and procurement, and in functional areas such as finance and human resources.



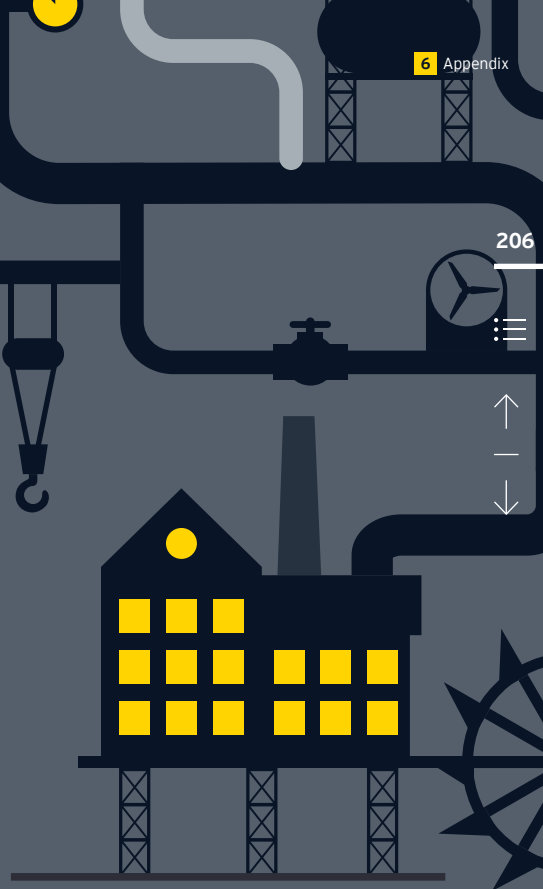
# Our strength in the hydrocarbon and electricity sector

EY's hydrocarbon and electricity professionals combine technical capabilities with a thorough understanding of the industry's operating processes, strategic and operating risks, growth drivers, regulatory considerations, and market dynamics.

We use our wide experience of working with the world's largest hydrocarbon and electricity companies to help you address your key business issues. This might involve helping you to overcome current sector issues such as rising costs where we can help you streamline operational and business processes and improve productivity on key profit drivers. In this environment of increased sector consolidation, we can assist you with your divestment

strategies, to ensure that you realize your full value upon exit. If you are looking to expand your operations to new regions, you can draw on our deep understanding of how to manage operational risks - both political and otherwise.

EY has a number of multi-service line solutions to help our clients meet these challenges.





# EY thought leadership

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## HOW TECH WILL ENABLE THE ENERGY TRANSITION AND PURPOSE-LED CONSUMPTION

The right technology, such as a carbon credit transaction platform, could unite the divergent interests of fuel franchisees and oil and gas companies, helping them collaborate more effectively and better connect with consumers. This technology could help oil and gas companies and fuel retailers transition to a new economic model.



## HOW GOVERNMENT CAN WORK WITH COMMUNITIES TO STRENGTHEN RESILIENCE?

To improve resilience planning, cities must evaluate the community-based networks already in place and how they can be strengthened.



## THREE STEPS FOR MANAGING LIQUIDITY IN AN UNCERTAIN OIL AND GAS MARKET

Structural oversupply from COVID-19 and the global economic shutdown reduced demand and prices. Strategically managing liquidity is imperative to navigating this critical time.



## HOW WILL ENVIRONMENTAL, SOCIAL AND GOVERNANCE PERFORMANCE SHAPE YOUR FUTURE?

While the social and economic impacts of the COVID-19 pandemic continue to play out on the global stage, questions remain over how investors will direct capital to support the economic recovery.

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## STATEMENT

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It is not intended, under any circumstances, to be used as a substitute for detailed research or the exercise of professional criteria and judgment.

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