

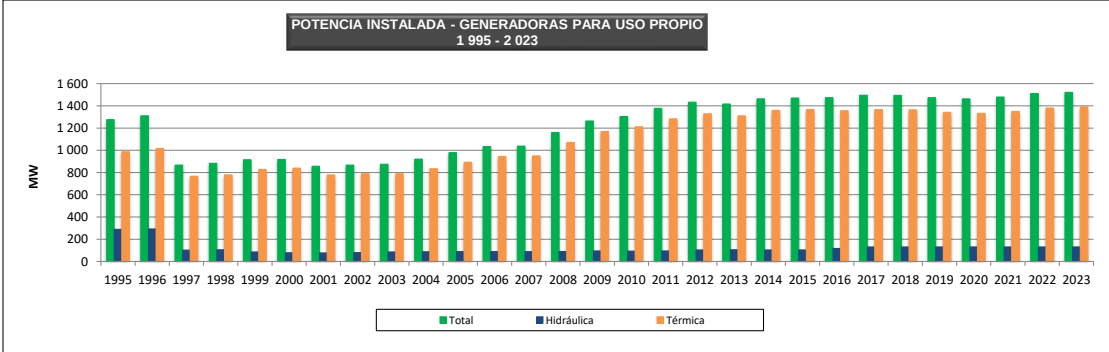
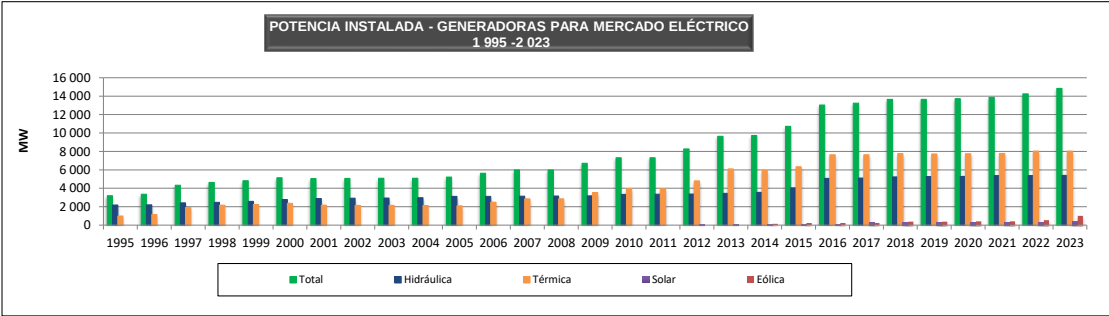
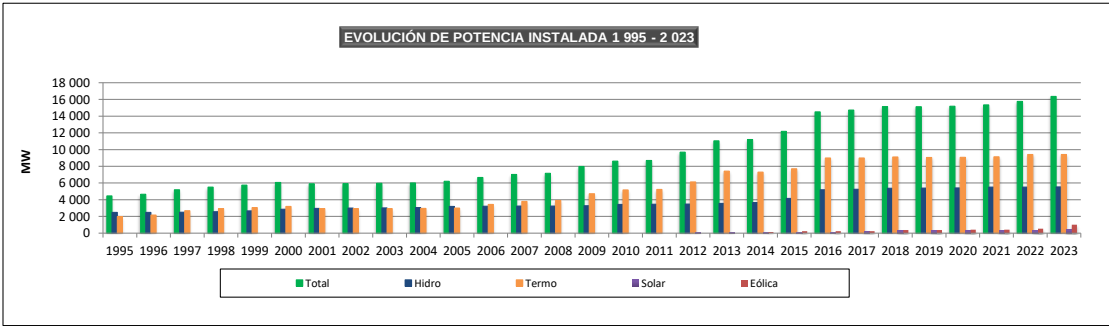


CAPÍTULO 10

Evolución de principales indicadores en el sector electricidad

10.1. EVOLUCIÓN DE LA POTENCIA INSTALADA (MW)

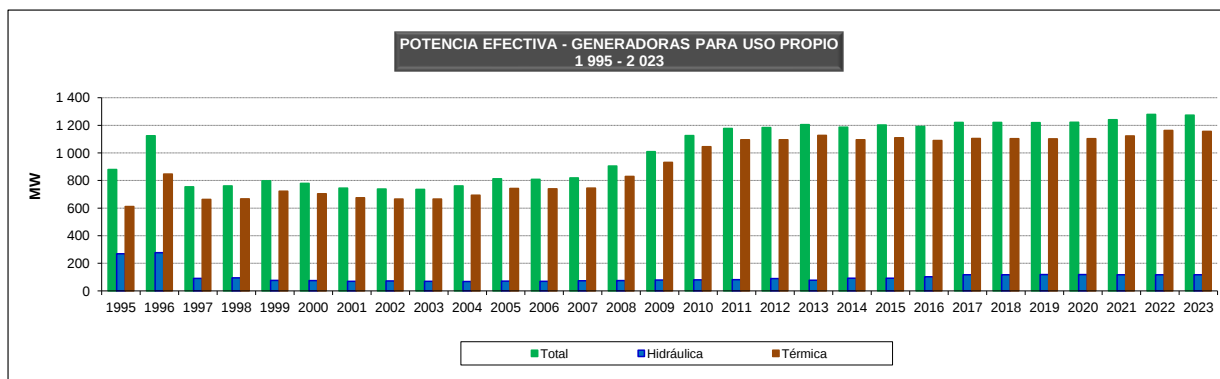
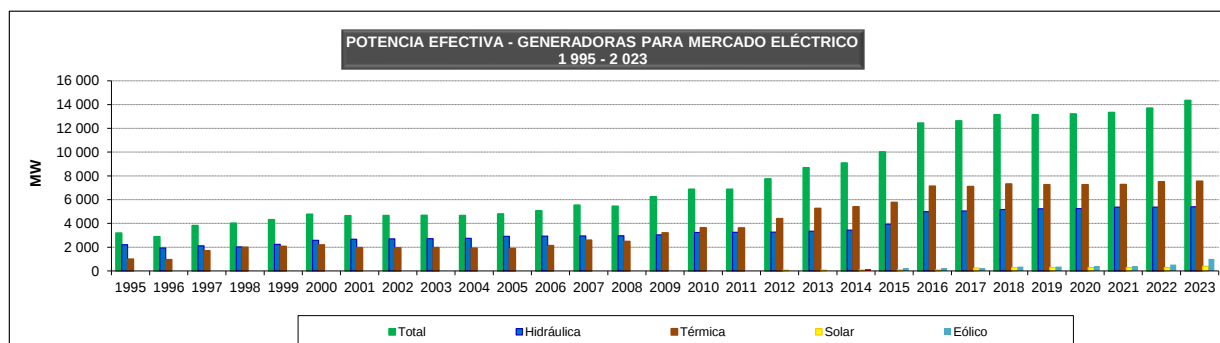
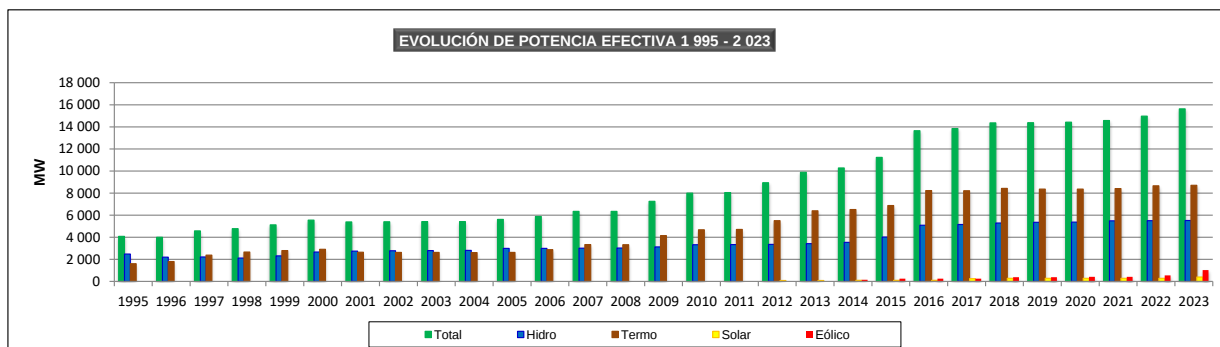
Año	Total	Generación				Mercado eléctrico					Uso propio		
		Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica
1995	4 461.70	2 479.40	1 982.30			3 185.70	2 190.00	995.70			1 276.00	289.40	986.60
1996	4 662.61	2 492.72	2 169.63		0.25	3 352.88	2 200.18	1 152.45		0.25	1 309.72	292.54	1 017.18
1997	5 192.50	2 512.99	2 679.25		0.25	4 325.02	2 411.52	1 913.25		0.25	867.48	101.48	766.00
1998	5 515.29	2 572.06	2 942.98		0.25	4 632.28	2 467.42	2 164.61		0.25	883.01	104.65	778.37
1999	5 742.43	2 673.28	3 068.45		0.70	4 828.24	2 587.13	2 240.41		0.70	914.19	86.15	828.03
2000	6 066.19	2 856.83	3 208.66		0.70	5 148.85	2 779.26	2 368.89		0.70	917.34	77.57	839.77
2001	5 906.69	2 966.33	2 939.67		0.70	5 050.81	2 889.43	2 160.68		0.70	855.88	76.90	778.98
2002	5 935.53	2 996.47	2 938.36		0.70	5 068.05	2 917.60	2 149.75		0.70	867.48	78.87	788.61
2003	5 970.06	3 032.31	2 937.06		0.70	5 095.10	2 946.82	2 147.58		0.70	874.96	85.49	789.47
2004	6 016.32	3 055.87	2 959.75		0.70	5 096.02	2 969.06	2 126.26		0.70	920.30	86.81	833.49
2005	6 200.53	3 207.06	2 992.76		0.70	5 220.63	3 119.20	2 100.73		0.70	979.89	87.86	892.03
2006	6 658.14	3 216.00	3 441.44		0.70	5 625.14	3 127.80	2 496.64		0.70	1 033.00	88.20	944.80
2007	7 027.52	3 233.60	3 793.22		0.70	5 989.73	3 145.14	2 843.88		0.70	1 037.79	88.46	949.34
2008	7 157.94	3 242.03	3 915.21		0.70	5 996.98	3 152.04	2 844.25		0.70	1 160.95	89.99	1 070.96
2009	7 986.50	3 277.46	4 708.33		0.70	6 723.52	3 183.13	3 539.69		0.70	1 262.98	94.34	1 168.64
2010	8 612.56	3 437.60	5 174.26		0.70	7 309.17	3 344.80	3 963.67		0.70	1 303.39	92.81	1 210.58
2011	8 691.32	3 450.95	5 239.67		0.70	7 314.24	3 357.06	3 956.48		0.70	1 377.09	93.89	1 283.19
2012	9 699.44	3 484.32	6 134.41	80.00	0.70	8 267.17	3 380.83	4 805.64	80.00	0.70	1 432.26	103.49	1 328.77
2013	11 050.72	3 556.18	7 413.84	80.00	0.70	9 634.63	3 450.55	6 103.38	80.00	0.70	1 416.09	105.64	1 310.45
2014	11 202.62	3 661.87	7 302.05	96.00	142.70	9 739.25	3 558.27	5 942.28	96.00	142.70	1 463.37	103.60	1 359.78
2015	12 188.63	4 151.84	7 700.98	96.00	239.80	10 717.71	4 047.87	6 334.05	96.00	239.80	1 470.91	103.98	1 366.94
2016	14 517.72	5 189.25	8 988.52	100.00	239.95	13 044.47	5 072.47	7 632.06	100.00	239.95	1 473.24	116.78	1 356.47
2017	14 734.77	5 245.93	9 004.41	244.48	239.95	13 238.76	5 115.71	7 638.62	244.48	239.95	1 496.01	130.22	1 365.79
2018	15 144.59	5 363.37	9 124.49	284.48	372.25	13 649.93	5 232.46	7 760.73	284.48	372.25	1 494.66	130.90	1 363.75
2019	15 122.84	5 397.21	9 064.35	289.03	372.25	13 650.20	5 266.30	7 722.61	289.03	372.25	1 472.65	130.90	1 341.74
2020	15 186.97	5 416.58	9 072.36	289.03	408.99	13 724.05	5 285.68	7 740.34	289.03	408.99	1 462.92	130.90	1 332.02
2021	15 340.31	5 513.77	9 131.03	286.51	408.99	13 860.96	5 383.87	7 781.58	286.51	408.99	1 479.35	129.90	1 349.45
2022	15 759.50	5 514.31	9 419.69	286.51	538.99	14 248.48	5 384.41	8 038.57	286.51	538.99	1 511.02	129.90	1 381.12
2023	16 363.45	5 529.70	9 416.62	401.44	1 015.69	14 842.81	5 399.80	8 025.88	401.44	1 015.69	1 520.64	129.90	1 390.74
Incremento 23/22	3.8%	0.3%	0.0%	40.1%	88.4%	4.2%	0.3%	-0.2%	40.1%	88.4%	0.6%	0.0%	0.7%
Variación media 23/18	1.6%	0.6%	0.6%	7.1%	22.2%	1.7%	0.6%	0.7%	7.1%	22.2%	0.3%	-0.2%	0.4%
Incremento 23/13	48%	55%	27%			54%	56%	31%			7%	23%	6%
Variación media 23/13	4%	5%	2%			4%	5%	3%			1%	2%	0.6%



10.2. EVOLUCIÓN DE LA POTENCIA EFECTIVA (MW)

Año	Total	Total				Mercado eléctrico					Uso propio		
		Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica
1995	4 075.41	2 474.89	1 600.52			3 195.39	2 205.92	989.48			880.02	268.97	611.05
1996	4 003.20	2 201.88	1 801.07		0.25	2 879.50	1 924.85	954.40		0.25	1 123.70	277.03	846.67
1997	4 581.02	2 210.90	2 369.87		0.25	3 826.83	2 120.17	1 706.41		0.25	754.19	90.73	663.45
1998	4 781.63	2 116.87	2 664.51		0.25	4 020.85	2 022.90	1 997.65		0.30	760.83	93.97	666.86
1999	5 116.16	2 318.11	2 797.35		0.70	4 317.93	2 242.63	2 074.60		0.70	798.23	75.48	722.74
2000	5 554.85	2 650.90	2 903.25		0.70	4 775.94	2 575.92	2 199.31		0.70	778.91	74.97	703.94
2001*	5 387.18	2 744.50	2 641.97		0.70	4 642.06	2 674.84	1 966.53		0.70	745.11	69.67	675.45
2002	5 395.67	2 775.28	2 619.69		0.70	4 657.83	2 702.86	1 954.26		0.70	737.84	72.42	665.42
2003	5 421.81	2 790.27	2 630.83		0.70	4 686.39	2 720.23	1 965.47		0.70	735.41	70.04	665.37
2004	5 417.96	2 815.00	2 602.26		0.70	4 657.32	2 747.27	1 909.34		0.70	760.64	67.73	692.91
2005	5 610.93	2 989.20	2 621.02		0.70	4 798.66	2 918.77	1 879.19		0.70	812.26	70.43	741.83
2006	5 873.40	2 995.97	2 876.73		0.70	5 064.36	2 926.62	2 137.04		0.70	809.04	69.36	739.68
2007	6 352.01	3 013.30	3 338.02		0.70	5 532.86	2 939.59	2 592.57		0.70	819.16	73.71	745.45
2008	6 348.94	3 027.90	3 320.34		0.70	5 444.22	2 953.12	2 490.40		0.70	904.73	74.78	829.95
2009	7 256.35	3 115.77	4 139.88		0.70	6 246.41	3 037.16	3 208.55		0.70	1 009.94	78.61	931.33
2010	8 000.39	3 317.45	4 682.24		0.70	6 875.04	3 237.36	3 636.98		0.70	1 125.35	80.08	1 045.27
2011	8 045.52	3 328.61	4 716.21		0.70	6 867.82	3 246.63	3 620.50		0.70	1 177.70	81.99	1 095.71
2012	8 939.26	3 360.14	5 498.42	80.00	0.70	7 754.91	3 270.60	4 403.61	80.00	0.70	1 184.35	89.54	1 094.81
2013	9 885.27	3 414.41	6 390.16	80.00	0.70	8 680.42	3 337.04	5 262.69	80.00	0.70	1 204.85	77.37	1 127.48
2014	10 269.34	3 527.29	6 503.35	96.00	142.70	9 082.80	3 435.94	5 408.16	96.00	142.70	1 186.54	91.35	1 095.20
2015	11 230.44	4 019.82	6 874.82	96.00	239.80	10 028.28	3 928.09	5 764.39	96.00	239.80	1 202.16	91.73	1 110.43
2016	13 642.51	5 086.34	8 220.22	96.00	239.95	12 450.71	4 983.98	7 130.78	96.00	239.95	1 191.80	102.36	1 089.44
2017	13 852.10	5 158.21	8 213.46	240.48	239.95	12 631.26	5 041.63	7 109.19	240.48	239.95	1 220.84	116.58	1 104.27
2018	14 366.26	5 291.83	8 421.69	280.48	372.25	13 145.60	5 174.47	7 318.39	280.48	372.25	1 220.66	117.36	1 103.30
2019	14 378.89	5 354.65	8 366.96	285.03	372.25	13 159.25	5 236.27	7 265.69	285.03	372.25	1 219.65	118.38	1 101.27
2020	14 431.97	5 370.73	8 367.22	285.03	408.99	13 209.90	5 252.37	7 263.51	285.03	408.99	1 222.07	118.36	1 103.71
2021	14 579.39	5 482.32	8 402.77	285.32	408.99	13 339.10	5 365.09	7 279.71	285.32	408.99	1 240.29	117.23	1 123.06
2022	14 976.99	5 493.29	8 659.40	285.32	538.99	13 698.30	5 376.89	7 497.10	285.32	538.99	1 278.69	116.40	1 162.30
2023	15 627.82	5 511.41	8 700.47	400.25	1 015.69	14 354.07	5 394.27	7 543.86	400.25	1 015.69	1 273.75	117.14	1 156.61
Incremento 23/22	4.3%	0.3%	0.5%	40.3%	88.4%	4.8%	0.3%	0.6%	40.3%	88.4%	-0.4%	0.6%	-0.5%
Variación media 23/18	1.7%	0.8%	0.7%	7.4%	22.2%	1.8%	0.8%	0.6%	7.4%	22.2%	0.9%	0.0%	0.9%
Incremento 23/13	58%	61%	36%			65%	62%	43%			6%	51%	3%
Variación media 23/13	5%	5%	3%			5%	5%	4%			1%	4%	0%

(*) En el año 2001 se interconectan los sistemas SICN y SIS para conformar el Sistema Eléctrico Interconectado Nacional - SEIN

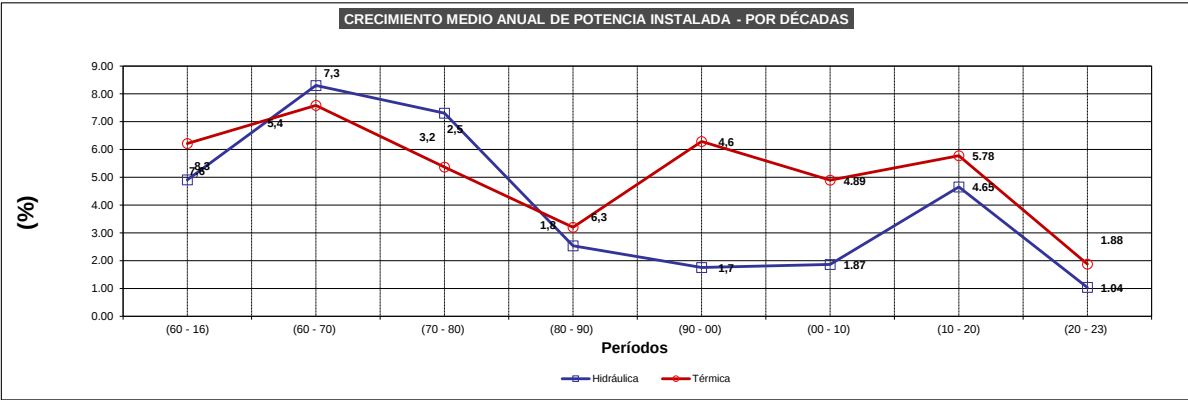


10.3 INCREMENTO Y CRECIMIENTO MEDIO ANUAL DE LA POTENCIA INSTALADA POR DÉCADAS

Año	Potencia Instalada (MW)												
	Mercado eléctrico					Uso propio			Total General				
	Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica	Total	Hidráulica	Térmica	Solar	Eólica	Total
1960	221.80	126.60			348.40	193.70	236.60	430.30	415.50	363.20			778.70
1970	681.10	181.50			862.60	241.50	573.00	814.50	922.60	754.50			1 677.10
1980	1 613.10	410.10			2 023.20	254.50	862.50	1 117.00	1 867.60	1 272.60			3 140.20
1990	2 119.00	722.80			2 841.80	280.80	1 020.80	1 301.60	2 399.80	1 743.60			4 143.40
2000	2 779.26	2 368.89			5 148.15	77.57	839.77	917.34	2 856.83	3 208.66			6 066.19
2010	3 344.80	3 963.67		0.70	7 309.17	92.81	1 210.58	1 303.39	3 437.60	5 174.26		0.70	8 612.56
2020	5 285.68	7 740.34	289.03	408.99	13 724.05	130.90	1 332.02	1 462.92	5 416.58	9 072.36	289.03	408.99	15 186.97
2023	5 399.80	8 025.88	401.44	1 015.69	14 842.81	129.90	1 390.74	1 520.64	5 529.70	9 416.62	401.44	1 015.69	16 363.45

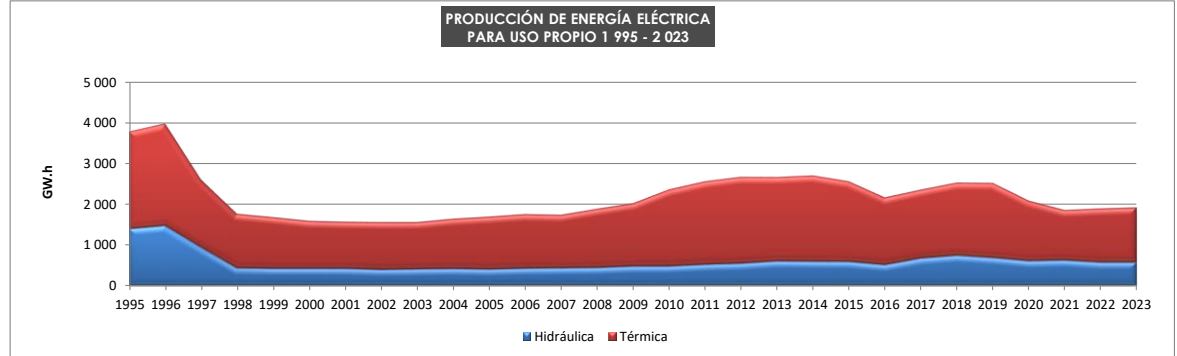
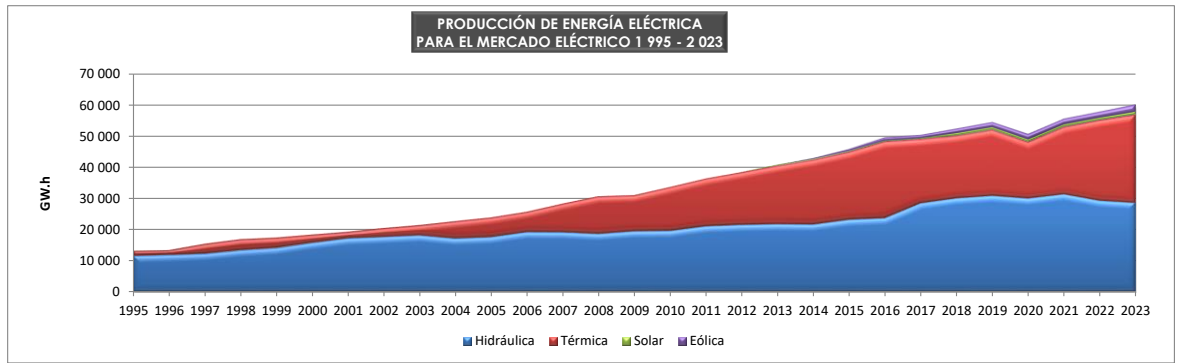
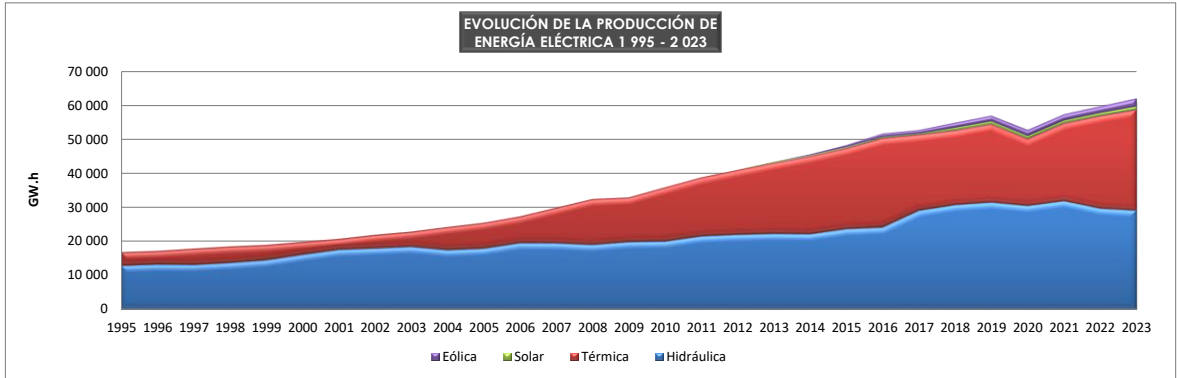
PERÍODO	Incrementos periódicos de potencia instalada (%)												
	Mercado eléctrico					Uso propio			Total General				
	Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica	Total	Hidráulica	Térmica	Solar	Eólica	Total
(60 - 16)	2 334.54	6 239.56			4 160.28	-32.94	487.80	253.39	1 230.85	2 492.68			2 001.38
(60 - 70)	207.08	43.36			147.59	24.68	142.18	89.29	122.05	107.74			115.37
(70 - 80)	136.84	125.95			134.55	5.38	50.52	37.14	102.43	68.67			87.24
(80 - 90)	31.36	76.25			40.46	10.33	18.35	16.53	28.50	37.01			31.95
(90 - 00)	31.16	227.74			81.16	-72.38	-17.73	-29.52	19.04	84.03			46.41
(00 - 10)	20.35	67.32			41.98	19.65	44.16	42.08	20.33	61.26			41.98
(10 - 20)	58.03	95.28	-	-	87.76	41.05	10.03	12.24	57.57	75.34	-	-	76.34
(20 - 23)	2.16	3.69	38.89	148.34	8.15	-0.76	4.41	3.95	2.09	3.79	38.89	148.34	7.75

PERÍODO	Crecimiento medio anual de la potencia instalada (%)												
	Mercado eléctrico					Uso propio			Total General				
	Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica	Total	Hidráulica	Térmica	Solar	Eólica	Total
(60 - 16)	6.09	7.99			7.20	-0.74	3.33	2.37	4.91	6.21			5.80
(60 - 70)	11.87	3.67			9.49	2.23	9.25	6.59	8.30	7.58			7.97
(70 - 80)	9.00	8.49			8.90	0.53	4.17	3.21	7.31	5.37			6.47
(80 - 90)	2.77	5.83			3.46	0.99	1.70	1.54	2.54	3.20			2.81
(90 - 00)	2.75	12.60			6.12	-12.07	-1.93	-3.44	1.76	6.29			3.89
(00 - 10)	1.87	5.28			3.57	1.81	3.72	3.57	1.87	4.89			3.57
(10 - 20)	4.68	6.92			6.50	3.50	0.96	1.16	4.65	5.78			5.84
(20 - 23)	1.07	1.83	17.85	57.59	4.00	-0.38	2.18	1.95	1.04	1.88	17.85	57.59	3.80



10.4. EVOLUCIÓN DE LA PRODUCCIÓN DE ENERGÍA ELÉCTRICA (GW.h)

Año	Total	Total				Mercado eléctrico					Uso propio		
		Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica	Solar	Eólica	Total	Hidráulica	Térmica
1995	16 880.11	12 937.55	3 942.56		---	13 106.31	11 540.59	1 565.72		---	3 773.80	1 396.96	2 376.84
1996	17 279.81	13 323.57	3 955.83		0.41	13 307.58	11 847.93	1 459.24		0.41	3 972.24	1 475.65	2 496.59
1997	17 953.41	13 214.53	4 738.32		0.56	15 348.56	12 264.79	3 083.21		0.56	2 604.85	949.74	1 655.11
1998	18 582.54	13 808.29	4 773.73		0.53	16 815.94	13 367.19	3 448.22		0.53	1 766.60	441.09	1 325.51
1999	19 049.62	14 540.58	4 508.41		0.62	17 366.22	14 110.59	3 255.01		0.62	1 683.40	429.99	1 253.41
2000	19 922.70	16 176.05	3 745.80		0.85	18 327.90	15 747.32	2 579.73		0.85	1 594.80	428.73	1 166.07
2001	20 785.94	17 614.96	3 169.75		1.23	19 214.71	17 188.53	2 024.95		1.23	1 571.23	426.43	1 144.80
2002	21 982.32	18 040.13	3 940.97		1.23	20 419.51	17 638.16	2 780.12		1.23	1 562.81	401.97	1 160.84
2003	22 923.35	18 533.72	4 388.41		1.23	21 361.46	18 118.33	3 241.90		1.23	1 561.89	415.39	1 146.50
2004	24 267.01	17 525.34	6 740.45		1.23	22 619.94	17 100.66	5 518.05		1.23	1 647.07	424.67	1 222.40
2005	25 509.74	17 976.99	7 531.52		1.23	23 810.87	17 567.11	6 242.54		1.23	1 698.86	409.89	1 288.97
2006	27 369.83	19 594.35	7 774.26		1.23	25 613.76	19 160.75	6 451.79		1.23	1 756.06	433.60	1 322.47
2007	29 943.05	19 548.78	10 393.04		1.23	28 200.49	19 107.19	9 092.07		1.23	1 742.56	441.59	1 300.97
2008	32 463.11	19 059.62	13 402.26		1.23	30 574.71	18 607.79	11 965.69		1.23	1 888.40	451.83	1 436.57
2009	32 944.74	19 903.78	13 039.73		1.23	30 921.90	19 419.22	11 501.45		1.23	2 022.83	484.55	1 538.28
2010	35 908.01	20 052.13	15 854.65		1.23	33 545.82	19 567.40	13 977.18		1.23	2 362.19	484.72	1 877.47
2011	38 806.46	21 557.33	17 247.91		1.23	36 248.53	21 027.42	15 219.89		1.23	2 557.93	529.91	2 028.02
2012	41 020.03	22 044.04	18 919.18	55.58	1.23	38 352.70	21 489.31	16 806.58	55.58	1.23	2 667.33	554.73	2 112.60
2013	43 330.18	22 319.56	20 812.46	196.93	1.23	40 664.67	21 709.38	18 757.13	196.93	1.23	2 665.51	610.18	2 055.33
2014	45 549.82	22 210.66	22 882.32	199.30	257.54	42 846.25	21 610.92	20 778.48	199.30	257.54	2 703.57	599.73	2 103.84
2015	48 270.40	23 722.75	23 721.80	230.26	595.60	45 711.39	23 127.10	21 758.43	230.26	595.60	2 559.02	595.64	1 963.37
2016	51 699.97	24 171.69	26 223.45	241.01	1 063.83	49 534.08	23 652.58	24 576.66	241.01	1 063.83	2 165.89	519.11	1 646.78
2017	52 700.05	29 074.51	22 264.91	287.20	1 073.43	50 344.86	28 393.01	20 591.22	287.20	1 073.43	2 355.19	681.50	1 673.69
2018	54 893.16	30 737.46	21 907.86	745.40	1 502.44	52 362.39	29 989.33	20 125.22	745.40	1 502.44	2 530.76	748.12	1 782.64
2019	56 968.50	31 462.09	23 088.32	763.06	1 655.04	54 448.59	30 769.21	21 261.28	763.06	1 655.04	2 519.91	692.88	1 827.04
2020	52 743.71	30 510.30	19 641.10	778.21	1 814.10	50 657.02	29 895.46	18 169.25	778.21	1 814.10	2 086.69	614.84	1 471.85
2021	57 397.02	31 925.68	22 847.06	801.70	1 822.57	55 537.76	31 293.61	21 619.87	801.70	1 822.57	1 859.26	632.07	1 227.19
2022	59 712.57	29 743.80	27 215.91	820.99	1 931.87	57 814.46	29 164.35	25 897.25	820.99	1 931.87	1 898.12	579.46	1 318.66
2023	62 067.35	29 087.64	29 667.71	956.69	2 355.32	60 144.18	28 509.43	28 322.75	956.69	2 355.32	1 923.17	578.21	1 344.96
Incremento 23/22	4%	-2%	9%	17%	22%	4%	-2%	9%	17%	22%	1%	0%	2%
Variación media 23/18	2%	-1%	6%	5%	9%	3%	-1%	7%	5%	9%	-5%	-5%	-5%
Incremento 23/13	43%	30%	43%			48%	31%	51%			-28%	-5%	-35%
Variación media 23/13	4%	3%	4%			4%	3%	4%			-3%	-1%	-4%

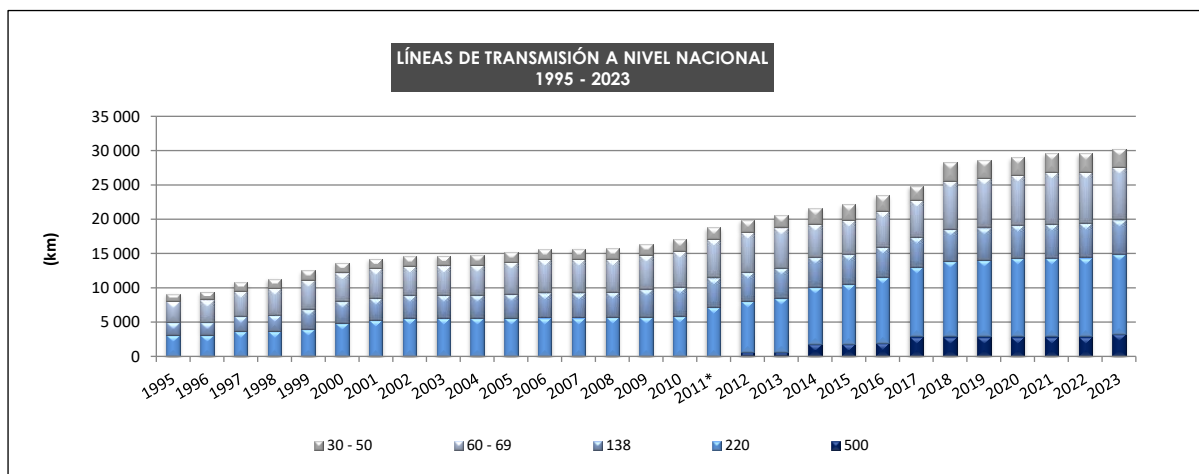


10.5 EVOLUCIÓN DE LA LONGITUD TOTAL DE LÍNEAS DE TRANSMISIÓN A NIVEL NACIONAL (km)

Año	Longitud de Líneas de Transmisión					
	Nivel de Tensión (kV)					
	Total	500	220	138	60 - 69	30 - 50
1995	9 132		3 129.69	1 872.97	3 030.63	1 098.24
1996	9 410		3 129.69	1 872.97	3 277.72	1 129.69
1997	10 824		3 625.50	2 240.83	3 629.14	1 329.00
1998	11 328		3 625.50	2 410.53	3 894.52	1 397.66
1999	12 528		3 996.31	2 920.41	4 189.57	1 421.38
2000	13 656		4 860.07	3 135.15	4 213.37	1 447.41
2001	14 261		5 318.10	3 183.00	4 309.59	1 449.94
2002	14 679		5 558.68	3 331.16	4 334.59	1 454.35
2003	14 693		5 558.68	3 338.16	4 335.31	1 460.85
2004	14 857		5 613.98	3 337.61	4 335.31	1 569.77
2005	15 272		5 613.98	3 435.00	4 678.00	1 545.00
2006	15 688		5 664.09	3 636.38	4 841.86	1 545.75
2007	15 712		5 676.98	3 636.38	4 852.79	1 545.75
2008	15 755		5 710.72	3 636.38	4 862.16	1 545.75
2009	16 319		5 714.27	4 057.03	4 992.95	1 555.16
2010	17 065		5 862.57	4 252.08	5 204.06	1 746.16
2011*	18 833	89.90	7 105.99	4 277.84	5 607.82	1 751.73
2012	19 936	611.90	7 459.77	4 285.65	5 782.99	1 795.45
2013	20 585	621.86	7 841.68	4 416.93	5 907.15	1 797.50
2014	21 589	1 838.46	8 240.84	4 368.33	4 888.85	2 252.56
2015	22 173	1 838.46	8 665.12	4 368.78	5 022.34	2 278.56
2016	23 488	1 969.80	9 567.84	4 432.20	5 230.03	2 288.26
2017	24 845	2 882.00	10 162.96	4 386.03	5 403.92	2 010.28
2018	28 262	2 883.40	10 966.56	4 738.10	7 008.28	2 666.06
2019	28 619	2 883.40	11 107.54	4 796.77	7 165.34	2 666.06
2020	29 047	2 883.40	11 433.77	4 835.80	7 228.18	2 666.06
2021	29 638	2 882.96	11 402.89	5 000.38	7 598.82	2 752.88
2022	29 662	2 882.96	11 523.64	5 002.53	7 499.79	2 752.88
2023	30 305	3 300.22	11 662.11	5 002.53	7 586.86	2 752.88
Incremento 23/22	2.2%	14%	1%	0%	1%	0%
Variación media 23/18	1%	3%	1%	1%	2%	1%
Incremento 23/13	47%	431%	49%	13%	28%	53%
Variación media 23/13	4%	18%	4%	1%	3%	4%

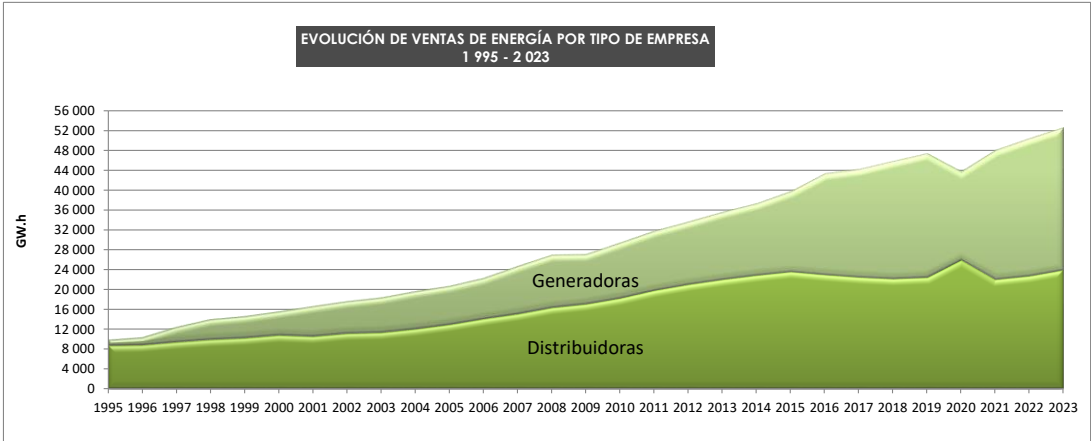
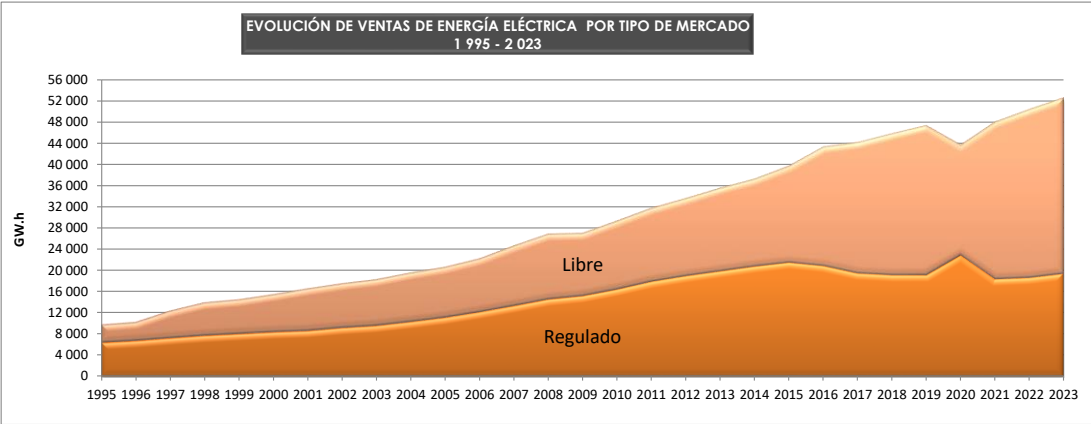
NOTA: El cuadro presenta la longitud lineal del recorrido, no considera el número de ternas.

(*) Entra en operación la primera línea en 500 kV Chilca-La Planicie-Zapallal perteneciente a la empresa ISA Perú S.A.



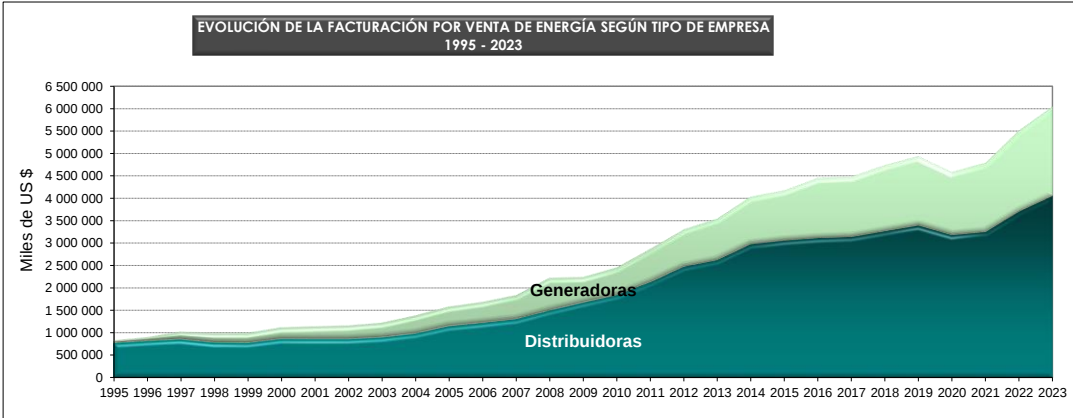
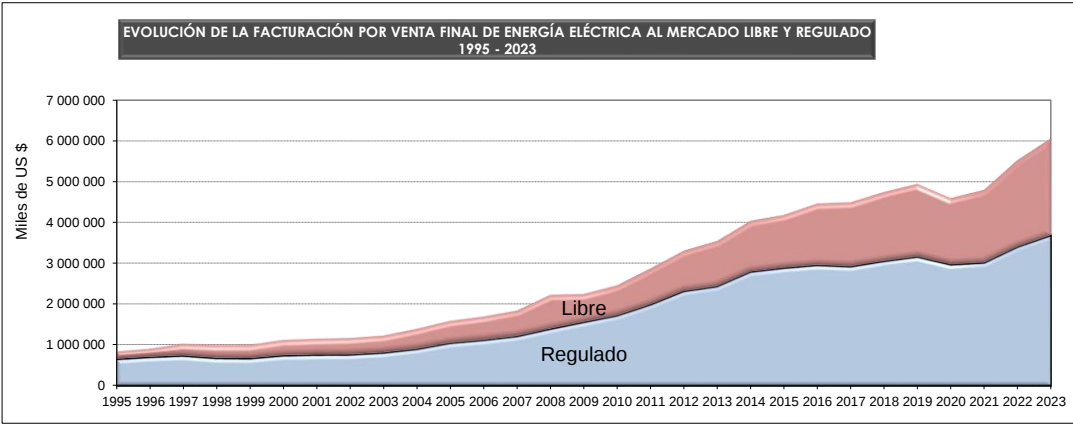
10.6. EVOLUCIÓN DE VENTAS DE ENERGÍA ELÉCTRICA A CLIENTE FINAL (GWh)

Año	Tipo de Mercado			Distribuidoras			Generadoras		
	Total	Regulado	Libre	Total	Regulado	Libre	Total	Regulado	Libre
1995	9 849.3	6 430.4	3 418.9	8 673.7	6 430.4	2 243.3	1 175.5		1 175.5
1996	10 330.8	6 781.8	3 549.0	8 770.6	6 781.8	1 988.8	1 560.2		1 560.2
1997	12 451.2	7 291.6	5 159.6	9 377.9	7 291.6	2 086.2	3 073.3		3 073.3
1998	14 008.6	7 755.8	6 252.7	9 878.7	7 755.8	2 122.8	4 129.9		4 129.9
1999	14 591.9	8 071.9	6 520.0	10 198.9	8 071.9	2 127.0	4 393.0		4 393.0
2000	15 545.6	8 406.8	7 138.8	10 763.3	8 406.8	2 356.5	4 782.3		4 782.3
2001	16 628.8	8 654.9	7 973.9	10 522.4	8 654.9	1 867.5	6 106.4		6 106.4
2002	17 605.3	9 221.9	8 383.4	11 113.5	9 221.9	1 891.7	6 491.8		6 491.8
2003	18 375.3	9 610.8	8 764.5	11 303.6	9 610.8	1 692.8	7 071.7		7 071.7
2004	19 640.7	10 352.5	9 288.1	12 001.3	10 352.5	1 648.8	7 639.3		7 639.3
2005	20 701.4	11 150.1	9 551.3	12 914.3	11 150.1	1 764.2	7 787.1		7 787.1
2006	22 290.1	12 169.5	10 120.5	14 043.6	12 169.5	1 874.1	8 246.4		8 246.4
2007	24 721.7	13 346.2	11 375.6	15 032.2	13 346.2	1 686.0	9 689.6		9 689.6
2008	26 964.4	14 569.4	12 395.0	16 297.2	14 569.4	1 727.7	10 667.2		10 667.2
2009	27 087.0	15 204.7	11 882.3	17 000.7	15 204.7	1 796.0	10 086.3		10 086.3
2010	29 436.2	16 430.9	13 005.3	18 195.3	16 430.9	1 764.5	11 240.9		11 240.9
2011	31 820.4	17 891.6	13 928.8	19 753.0	17 891.6	1 861.5	12 067.3		12 067.3
2012	33 648.2	18 962.2	14 686.0	20 947.3	18 962.2	1 985.1	12 700.9		12 700.9
2013	35 609.7	19 881.6	15 728.1	21 935.5	19 881.6	2 053.9	13 674.2		13 674.2
2014	37 327.8	20 764.0	16 563.8	22 782.0	20 764.0	2 018.0	14 545.8		14 545.8
2015	39 774.7	21 493.0	18 281.7	23 494.0	21 493.0	2 001.0	16 280.7		16 280.7
2016	43 367.0	20 865.2	22 501.8	22 886.3	20 865.2	2 021.1	20 480.7		20 480.7
2017	44 223.3	19 466.0	24 757.2	22 399.5	19 466.0	2 933.5	21 823.7		21 823.7
2018	45 867.8	19 150.0	26 717.8	22 073.9	19 150.0	2 923.9	23 793.9		23 793.9
2019	47 420.7	19 138.0	28 282.8	22 355.0	19 138.0	3 217.1	25 065.7		25 065.7
2020	43 751.1	22 857.7	20 893.4	25 857.2	22 857.7	2 999.5	17 893.8		17 893.8
2021	48 053.7	18 372.0	29 681.7	21 959.3	18 372.0	3 587.3	26 094.4		26 094.4
2022	50 433.1	18 638.2	31 794.9	22 653.6	18 638.2	4 015.4	27 779.5		27 779.5
2023	52 623.0	19 420.4	33 202.6	23 870.3	19 420.4	4 449.9	28 752.7		28 752.7
Incremento 23/22	4%	4%	4%	5%	4%	11%	4%		4%
Variación media 23/18	3%	0%	4%	2%	0%	9%	4%		4%
Incremento 23/15	48%	-2%	111%	9%	-2%	117%	110%		110%
Variación media 23/13	4%	0%	8%	1%	0%	8%	8%		8%



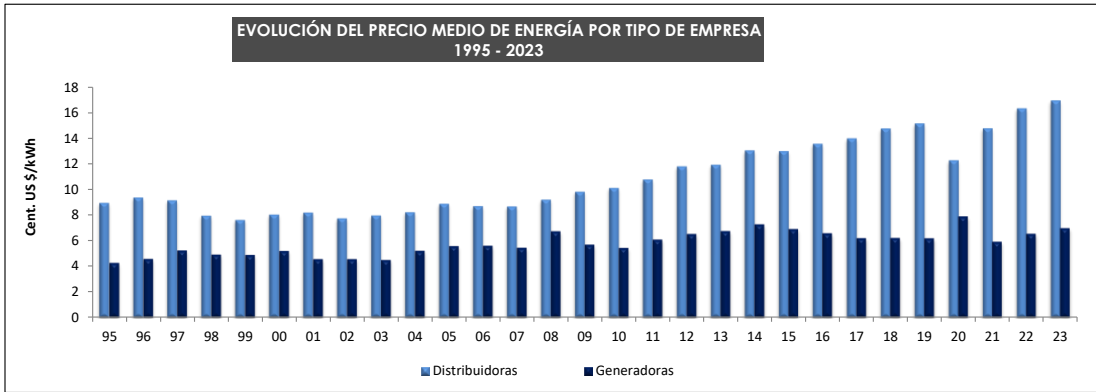
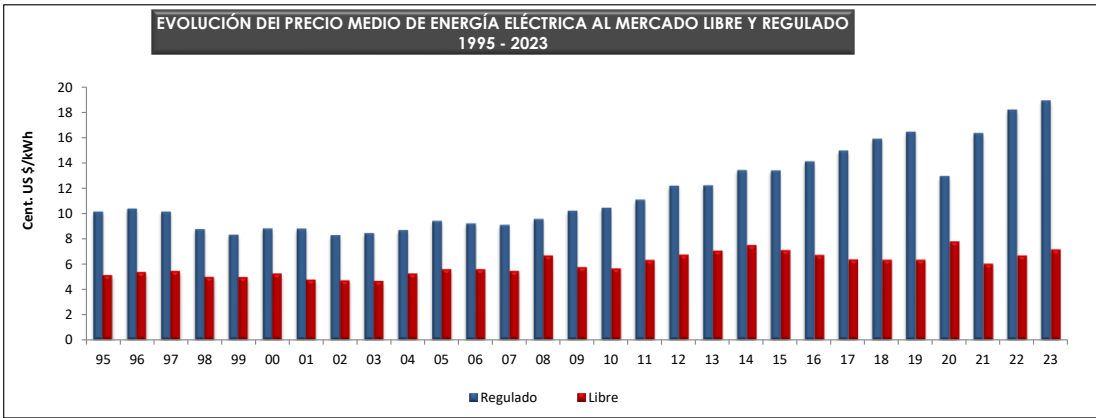
10.7. EVOLUCIÓN DE FACTURACIÓN DE ENERGÍA ELÉCTRICA A CLIENTE FINAL (miles US\$)

Año	Tipo de Mercado			Distribuidoras			Generadoras		
	Total	Regulado	Libre	Total	Regulado	Libre	Total	Regulado	Libre
1995	826 676.0	652 594.7	174 081.3	776 779.2	652 594.7	124 184.5	49 896.8		49 896.8
1996	893 370.4	703 942.1	189 428.3	822 460.3	703 942.1	118 518.2	70 910.1		70 910.1
1997	1 019 537.5	739 882.1	279 655.5	859 351.7	739 882.1	119 469.6	160 185.9		160 185.9
1998	988 145.0	678 887.1	309 257.8	786 061.0	678 887.1	107 173.9	202 084.0		202 084.0
1999	991 959.4	670 510.0	321 449.4	778 389.1	670 510.0	107 879.2	213 570.2		213 570.2
2000	1 113 069.5	740 329.4	372 740.1	866 072.1	740 329.4	125 742.7	246 997.4		246 997.4
2001	1 139 358.5	761 192.1	378 166.5	862 632.3	761 192.1	101 440.2	276 726.2		276 726.2
2002	1 157 067.2	764 543.1	392 524.1	862 228.1	764 543.1	97 685.0	294 839.0		294 839.0
2003	1 217 210.1	811 107.1	406 103.0	901 096.2	811 107.1	89 989.0	316 114.0		316 114.0
2004	1 382 300.0	897 997.7	484 302.3	986 870.1	897 997.7	88 872.4	395 429.9		395 429.9
2005	1 579 209.3	1 048 137.0	531 072.2	1 147 775.9	1 048 137.0	99 638.9	431 433.4		431 433.4
2006	1 683 168.9	1 120 521.1	562 647.8	1 222 413.6	1 120 521.1	101 892.6	460 755.3		460 755.3
2007	1 830 631.7	1 213 689.5	616 942.2	1 305 447.9	1 213 689.5	91 758.4	525 183.8		525 183.8
2008	2 216 100.0	1 393 393.9	822 706.1	1 501 002.7	1 393 393.9	107 608.9	715 097.2		715 097.2
2009	2 236 058.2	1 556 915.7	679 142.5	1 675 664.8	1 556 915.7	118 749.1	560 393.4		560 393.4
2010	2 448 535.0	1 718 589.3	729 945.7	1 841 104.1	1 718 589.3	122 514.8	607 430.9		607 430.9
2011	2 860 391.6	1 984 402.4	875 989.1	2 130 475.7	1 984 402.4	146 073.3	729 915.8		729 915.8
2012	3 299 125.5	2 313 676.3	985 449.2	2 474 533.6	2 313 676.3	160 857.3	824 591.9		824 591.9
2013	3 536 226.3	2 432 390.4	1 103 835.9	2 617 666.0	2 432 390.4	185 275.6	918 560.3		918 560.3
2014	4 025 346.1	2 788 652.8	1 236 693.3	2 974 214.4	2 788 652.8	185 561.6	1 051 131.7		1 051 131.7
2015	4 171 411.4	2 880 093.1	1 291 318.3	3 054 174.0	2 880 093.1	174 080.9	1 117 237.4		1 117 237.4
2016	4 449 456.5	2 947 578.3	1 501 878.2	3 107 945.2	2 947 578.3	160 366.9	1 341 511.2		1 341 511.2
2017	4 479 698.2	2 915 208.6	1 564 489.6	3 135 319.5	2 915 208.6	220 111.0	1 344 378.6		1 344 378.6
2018	4 732 556.1	3 048 268.4	1 684 287.7	3 262 079.8	3 048 268.4	213 811.4	1 470 476.3		1 470 476.3
2019	4 932 709.2	3 151 419.0	1 781 290.2	3 390 349.5	3 151 419.0	238 930.5	1 542 359.7		1 542 359.7
2020	4 582 046.4	2 963 478.3	1 618 568.1	3 177 626.5	2 963 478.3	214 148.2	1 404 419.9		1 404 419.9
2021	4 782 966.1	3 007 639.8	1 775 326.3	3 247 662.6	3 007 639.8	240 022.8	1 535 303.5		1 535 303.5
2022	5 509 467.5	3 398 643.8	2 110 823.7	3 703 282.0	3 398 643.8	304 638.2	1 806 185.5		1 806 185.5
2023	6 043 153.8	3 679 456.6	2 363 697.2	4 049 915.5	3 679 456.6	370 458.9	1 993 238.3		1 993 238.3
Incremento 23/22	10%	8%	12%	9%	8%	22%	10%		10%
Variación media 23/18	5%	4%	7%	4%	4%	12%	6%		6%
Incremento 23/13	71%	51%	114%	55%	51%	100%	117%		117%
Variación media 23/13	6%	4%	8%	4%	4%	7%	8%		8%



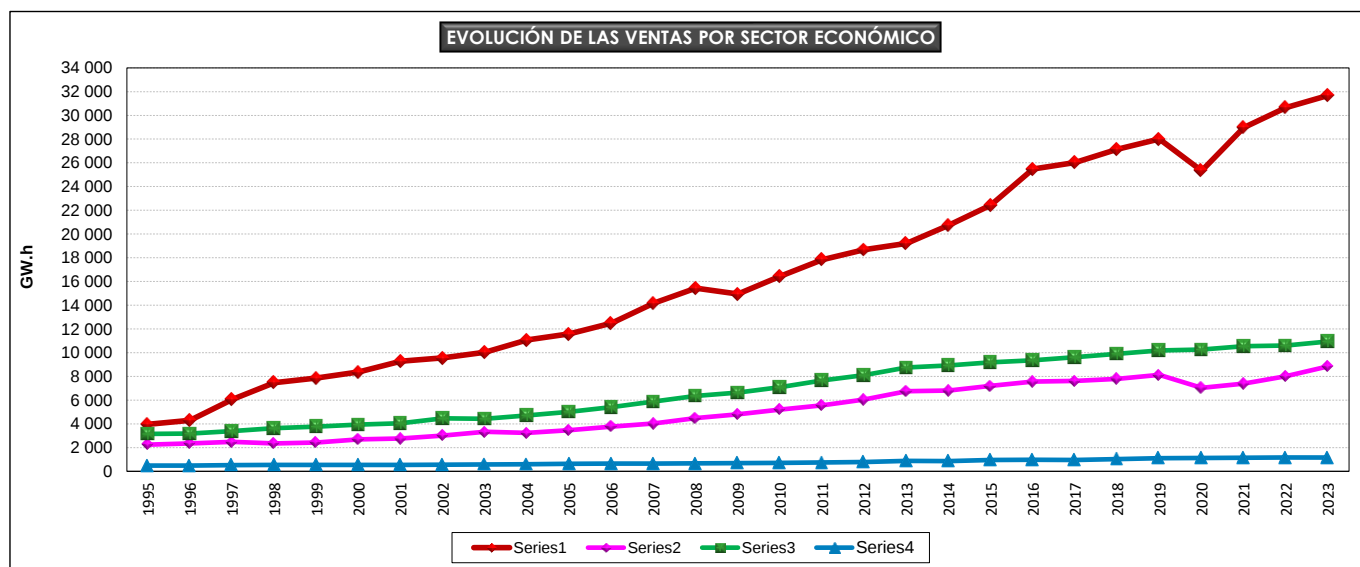
10.8 PRECIO MEDIO DE ENERGÍA ELÉCTRICA POR TIPO DE EMPRESA Y MERCADO (cent. US\$ / kWh)

Año	Tipo de Mercado			Distribuidoras			Generadoras		
	Total	Regulado	Libre	Total	Regulado	Libre	Total	Regulado	Libre
1995	8.4	10.1	5.1	9.0	10.1	5.5	4.2		4.2
1996	8.6	10.4	5.3	9.4	10.4	6.0	4.5		4.5
1997	8.2	10.1	5.4	9.2	10.1	5.7	5.2		5.2
1998	7.1	8.8	4.9	8.0	8.8	5.0	4.9		4.9
1999	6.8	8.3	4.9	7.6	8.3	5.1	4.9		4.9
2000	7.2	8.8	5.2	8.0	8.8	5.3	5.2		5.2
2001	6.9	8.8	4.7	8.2	8.8	5.4	4.5		4.5
2002	6.6	8.3	4.7	7.8	8.3	5.2	4.5		4.5
2003	6.6	8.4	4.6	8.0	8.4	5.3	4.5		4.5
2004	7.0	8.7	5.2	8.2	8.7	5.4	5.2		5.2
2005	7.6	9.4	5.6	8.9	9.4	5.7	5.5		5.5
2006	7.5	9.2	5.6	8.7	9.2	5.4	5.6		5.6
2007	7.4	9.1	5.4	8.7	9.1	5.4	5.4		5.4
2008	8.2	9.6	6.6	9.2	9.6	6.2	6.7		6.7
2009	8.3	10.2	5.7	9.8	10.2	6.6	5.7		5.7
2010	8.3	10.5	5.6	10.1	10.5	6.9	5.4		5.4
2011	9.0	11.1	6.3	10.8	11.1	7.8	6.0		6.0
2012	9.8	12.2	6.7	11.8	12.2	8.1	6.5		6.5
2013	9.9	12.2	7.0	11.9	12.2	9.0	6.7		6.7
2014	10.8	13.4	7.5	13.1	13.4	9.2	7.2		7.2
2015	10.5	13.4	7.1	13.0	13.4	8.7	6.9		6.9
2016	10.3	14.1	6.7	13.6	14.1	7.9	6.6		6.6
2017	10.1	15.0	6.3	14.0	15.0	7.5	6.2		6.2
2018	10.3	15.9	6.3	14.8	15.9	7.3	6.2		6.2
2019	10.4	16.5	6.3	15.2	16.5	7.4	6.2		6.2
2020	10.5	13.0	7.7	12.3	13.0	7.1	7.8		7.8
2021	10.0	16.4	6.0	14.8	16.4	6.7	5.9		5.9
2022	10.9	18.2	6.6	16.3	18.2	7.6	6.5		6.5
2023	11.5	18.9	7.1	17.0	18.9	8.3	6.9		6.9
Incremento 23/22	5%	4%	7%	4%	4%	10%	7%		7%
Variación media 23/18	2%	4%	2%	3%	4%	3%	2%		2%
Incremento 23/13	16%	55%	1%	42%	55%	-8%	3%		3%
Variación media 23/13	1%	4%	0%	4%	4%	-1%	0%		0%



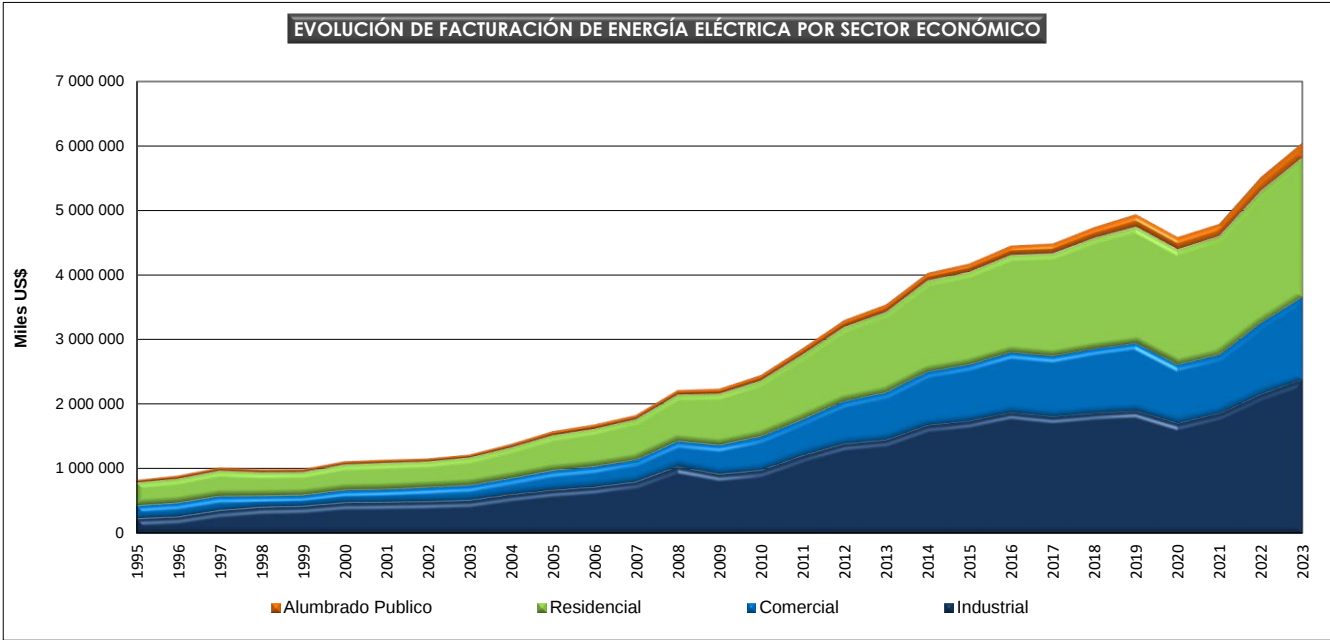
10.9. EVOLUCIÓN DE VENTAS DE ENERGÍA ELÉCTRICA POR SECTOR ECONÓMICO (GWh)

Año	Industrial		Comercial		Residencial		Alumbrado Público		Total
1995	3 963.77	40%	2 248.67	23%	3 154.14	32%	482.68	5%	9 849.26
1996	4 305.30	42%	2 350.99	23%	3 185.06	31%	489.45	5%	10 330.79
1997	6 058.13	49%	2 480.10	20%	3 385.52	27%	527.47	4%	12 451.23
1998	7 473.85	53%	2 360.43	17%	3 639.30	26%	535.07	4%	14 008.65
1999	7 855.60	54%	2 420.30	17%	3 772.70	26%	543.30	4%	14 591.90
2000	8 375.02	54%	2 693.35	17%	3 936.24	25%	540.99	3%	15 545.60
2001	9 280.56	56%	2 762.20	17%	4 043.97	24%	542.02	3%	16 628.75
2002	9 567.61	54%	3 013.12	17%	4 464.88	25%	559.73	3%	17 605.33
2003	10 038.68	55%	3 341.09	18%	4 425.34	24%	570.23	3%	18 375.34
2004	11 074.76	56%	3 243.43	17%	4 720.01	24%	602.46	3%	19 640.65
2005	11 588.28	56%	3 460.34	17%	5 020.74	24%	632.03	3%	20 701.38
2006	12 481.42	56%	3 760.35	17%	5 404.37	24%	643.92	3%	22 290.06
2007	14 165.66	57%	4 023.52	16%	5 877.13	24%	655.45	3%	24 721.75
2008	15 437.25	57%	4 494.90	17%	6 357.32	24%	674.95	3%	26 964.41
2009	14 942.95	55%	4 815.08	18%	6 644.60	25%	684.38	3%	27 087.01
2010	16 434.71	56%	5 205.82	18%	7 086.25	24%	709.40	2%	29 436.18
2011	17 841.42	56%	5 563.12	17%	7 663.09	24%	752.72	2%	31 820.35
2012	18 690.46	56%	6 061.77	18%	8 110.44	24%	785.51	2%	33 648.19
2013	19 214.62	54%	6 760.10	19%	8 757.88	25%	877.05	2%	35 609.65
2014	20 739.15	56%	6 802.82	18%	8 920.51	24%	865.30	2%	37 327.78
2015	22 440.16	56%	7 201.71	18%	9 177.15	23%	955.73	2%	39 774.74
2016	25 483.05	59%	7 558.40	17%	9 360.77	22%	964.78	2%	43 367.00
2017	26 022.13	59%	7 624.06	17%	9 614.28	22%	962.79	2%	44 223.25
2018	27 133.01	59%	7 797.51	17%	9 904.67	22%	1 032.60	2%	45 867.79
2019	28 004.49	59%	8 122.90	17%	10 186.87	21%	1 106.48	2%	47 420.74
2020	25 333.04	58%	7 035.43	16%	10 260.32	23%	1 122.28	3%	43 751.07
2021	28 970.63	60%	7 388.23	15%	10 550.05	22%	1 144.83	2%	48 053.74
2022	30 643.10	61%	8 015.80	16%	10 606.35	21%	1 167.84	2%	50 433.09
2023	31 676.09	60%	8 842.61	17%	10 940.48	21%	1 163.79	2%	52 622.97
Incremento 23/22	3%		10%		3%		0%		4%
Variación media 23/18	3%		3%		2%		2%		3%
Incremento 23/13	65%		31%		25%		33%		48%
Variación media 23/13	5%		3%		2%		3%		4%



10.10 EVOLUCIÓN DE FACTURACIÓN DE ENERGÍA ELÉCTRICA POR SECTOR ECONÓMICO (miles US\$)

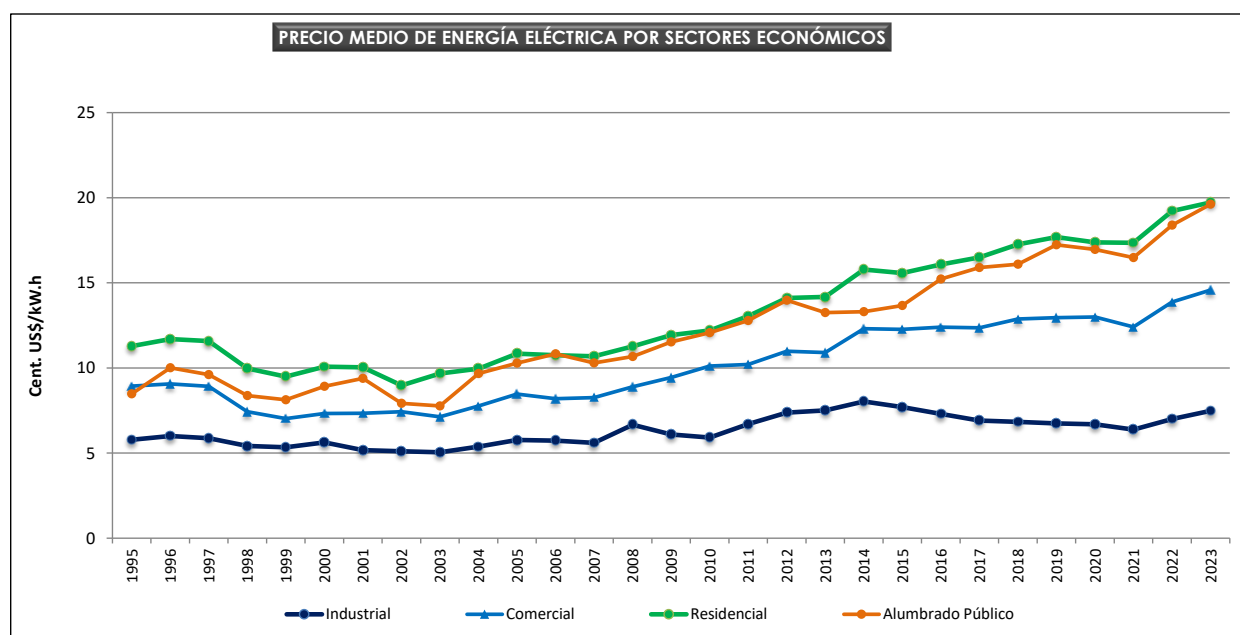
Año	Facturación a Cliente Final				
	Industrial	Comercial	Residencial	Alumbrado Público	Total
1995	229 035.54	200 811.42	355 896.20	40 932.83	826 676.00
1996	258 447.73	213 222.67	372 677.78	49 022.22	893 370.40
1997	355 516.10	221 239.00	392 117.28	50 665.15	1 019 537.54
1998	405 108.59	175 416.58	362 781.22	44 838.59	988 144.97
1999	419 536.45	170 042.71	358 196.55	44 183.66	991 959.37
2000	470 947.32	197 172.92	396 689.58	48 259.68	1 113 069.50
2001	479 868.23	202 560.16	406 024.25	50 905.86	1 139 358.51
2002	488 098.28	223 817.53	400 798.05	44 353.30	1 157 067.16
2003	506 532.86	238 398.64	427 974.97	44 303.67	1 217 210.14
2004	596 267.04	257 743.91	470 011.63	58 277.42	1 382 300.01
2005	669 716.06	300 420.26	544 065.37	65 007.59	1 579 209.27
2006	715 993.84	317 868.60	579 597.99	69 708.48	1 683 168.90
2007	794 759.59	340 153.50	628 258.90	67 459.67	1 830 631.66
2008	1 027 831.89	399 555.07	716 691.01	72 022.00	2 216 099.97
2009	910 151.83	454 550.77	792 475.93	78 879.63	2 236 058.15
2010	971 594.09	526 340.05	864 962.42	85 638.46	2 448 535.03
2011	1 196 612.77	568 041.68	999 500.05	96 237.05	2 860 391.56
2012	1 379 656.11	665 764.94	1 143 905.34	109 799.10	3 299 125.50
2013	1 441 539.80	737 391.51	1 241 000.84	116 294.17	3 536 226.33
2014	1 665 612.66	836 842.31	1 407 774.94	115 116.21	4 025 346.12
2015	1 728 275.93	883 699.58	1 428 790.09	130 645.79	4 171 411.39
2016	1 860 291.99	937 495.57	1 504 775.32	146 893.57	4 449 456.46
2017	1 797 961.28	942 448.22	1 586 189.52	153 099.15	4 479 698.17
2018	1 852 333.48	1 004 206.14	1 709 828.28	166 188.19	4 732 556.09
2019	1 887 444.96	1 051 965.59	1 802 635.37	190 663.32	4 932 709.24
2020	1 694 734.06	913 791.58	1 783 084.67	190 436.10	4 582 046.41
2021	1 846 129.73	916 913.39	1 831 263.88	188 659.11	4 782 966.11
2022	2 144 134.38	1 112 014.78	2 038 562.73	214 755.58	5 509 467.48
2023	2 368 037.51	1 289 042.57	2 157 758.58	228 315.14	6 043 153.80
Incremento 23/22	10%	16%	6%	6%	10%
Variación media 23/18	5%	5%	5%	7%	5%
Incremento 23/13	64%	75%	74%	96%	71%
Variación media 23/13	5%	6%	6%	7%	6%



10.11 PRECIO MEDIO DE ENERGÍA ELÉCTRICA POR SECTOR ECONÓMICO (cent. US\$/kWh) *

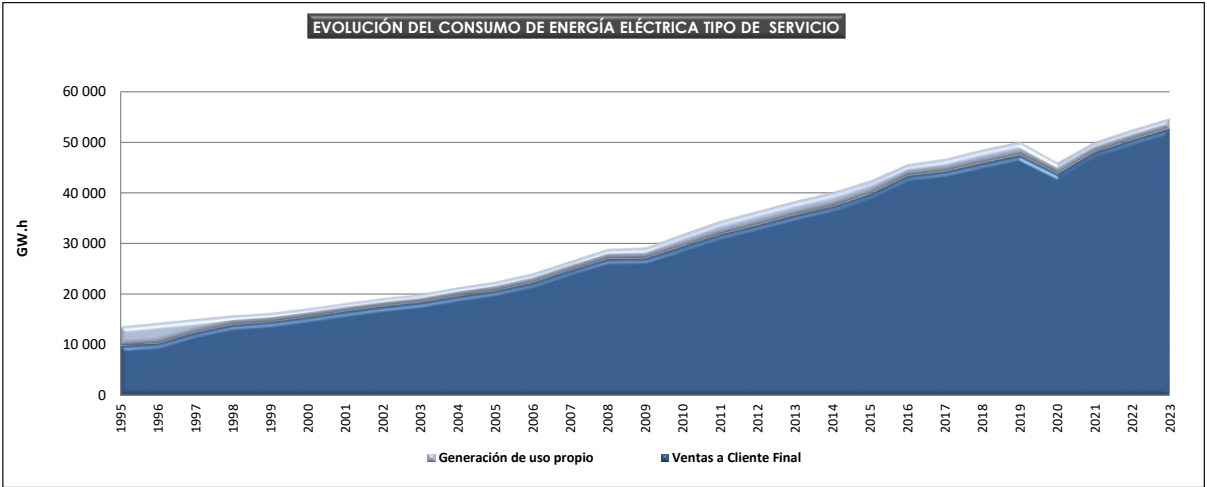
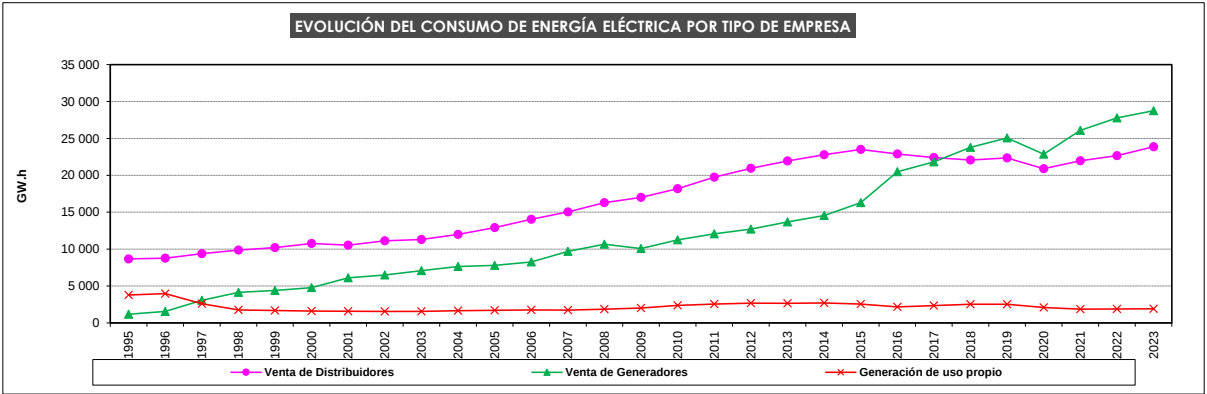
Año	Precio Medio por Sector Económico				
	Industrial	Comercial	Residencial	Alumbrado Público	Precio Medio *
1995	5.78	8.93	11.28	8.48	8.39
1996	6.00	9.07	11.70	10.02	8.65
1997	5.87	8.92	11.58	9.61	8.19
1998	5.42	7.43	9.97	8.38	7.05
1999	5.34	7.03	9.49	8.13	6.80
2000	5.62	7.32	10.08	8.92	7.16
2001	5.17	7.33	10.04	9.39	6.85
2002	5.10	7.43	8.98	7.92	6.57
2003	5.05	7.14	9.67	7.77	6.62
2004	5.38	7.77	9.96	9.67	7.04
2005	5.77	8.47	10.84	10.29	7.63
2006	5.73	8.20	10.76	10.83	7.55
2007	5.60	8.26	10.69	10.29	7.40
2008	6.66	8.89	11.27	10.67	8.22
2009	6.09	9.44	11.93	11.53	8.26
2010	5.91	10.11	12.21	12.07	8.32
2011	6.71	10.21	13.04	12.79	8.99
2012	7.38	10.98	14.10	13.98	9.80
2013	7.50	10.91	14.17	13.26	9.93
2014	8.03	12.30	15.78	13.30	10.78
2015	7.70	12.27	15.57	13.67	10.49
2016	7.30	12.40	16.08	15.23	10.26
2017	6.91	12.36	16.50	15.90	10.13
2018	6.83	12.88	17.26	16.09	10.32
2019	6.74	12.95	17.70	17.23	10.40
2020	6.69	12.99	17.38	16.97	10.47
2021	6.37	12.41	17.36	16.48	9.95
2022	7.00	13.87	19.22	18.39	10.92
2023	7.48	14.58	19.72	19.62	11.48
Incremento 23/22	7%	5%	3%	7%	5%
Variación media 23/18	1.8%	3%	3%	4%	2%
Incremento 23/13	-0.4%	34%	39%	48%	16%
Variación media 23/13	0.0%	3%	3%	4%	1%

(*) Corresponde al cociente de la facturación y venta total de energía eléctrica



10. 12 EVOLUCIÓN DEL CONSUMO DE ENERGÍA ELÉCTRICA (GW.h)

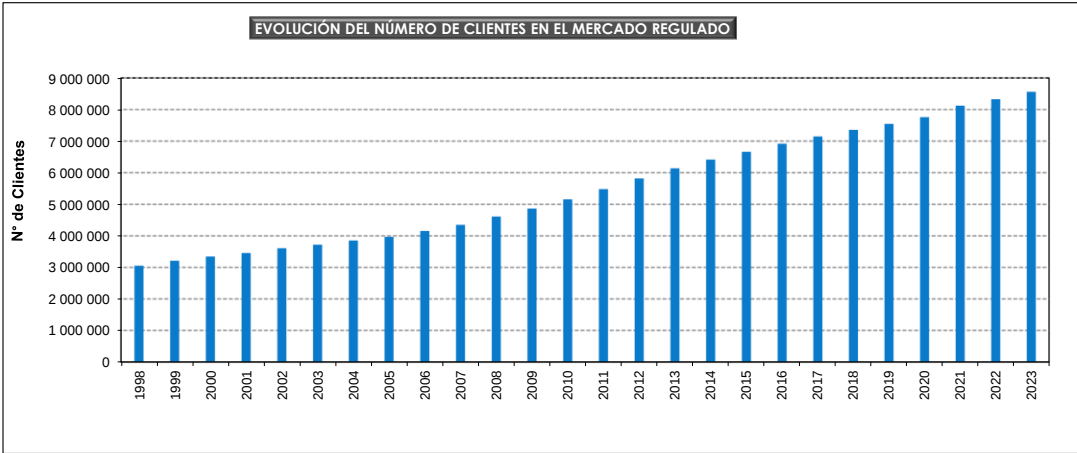
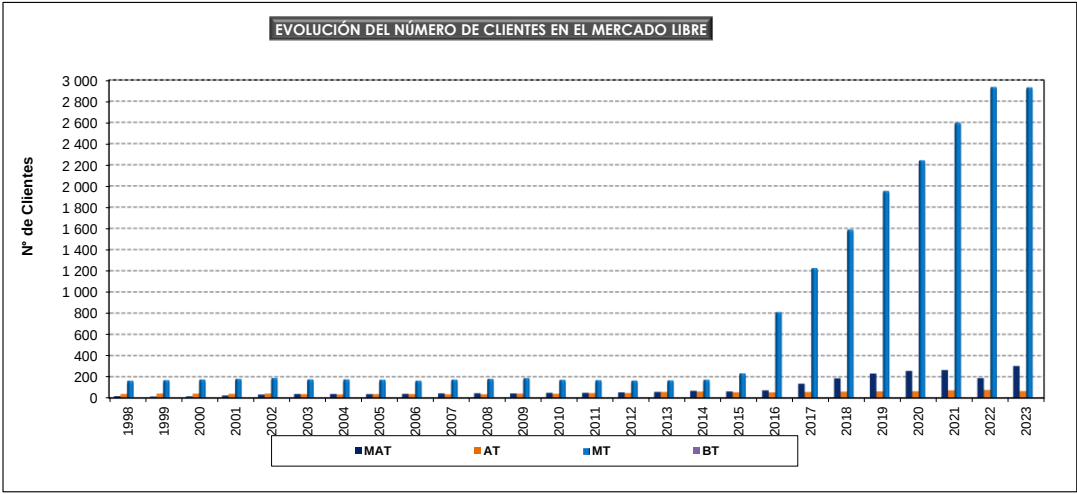
Año	Consumo Total	Ventas a Cliente Final			Consumo propio de cogeneradores	Generación de uso propio
		Total	Distribuidoras	Generadoras		
1995	13 623.06	9 849.26	8 673.71	1 175.55		3 773.80
1996	14 303.14	10 330.84	8 770.61	1 560.23		3 972.30
1997	15 056.08	12 451.23	9 377.89	3 073.34		2 604.85
1998	15 775.18	14 008.58	9 878.66	4 129.92		1 766.60
1999	16 274.99	14 591.99	10 198.99	4 393.00		1 683.00
2000	17 140.40	15 545.60	10 763.27	4 782.33		1 594.80
2001	18 199.95	16 628.75	10 522.37	6 106.38		1 571.20
2002	19 168.14	17 605.33	11 113.55	6 491.78		1 562.81
2003	19 937.23	18 375.34	11 303.61	7 071.72		1 561.89
2004	21 287.72	19 640.65	12 001.31	7 639.35		1 647.07
2005	22 400.24	20 701.38	12 914.29	7 787.10		1 698.86
2006	24 046.13	22 290.06	14 043.64	8 246.42		1 756.06
2007	26 464.30	24 721.75	15 032.18	9 689.57		1 742.56
2008	28 833.07	26 964.41	16 297.18	10 667.24		1 868.65
2009	29 109.84	27 087.01	17 000.66	10 086.34		2 022.83
2010	31 798.37	29 436.18	18 195.33	11 240.85		2 362.19
2011	34 378.28	31 820.35	19 753.04	12 067.31		2 557.93
2012	36 323.14	33 648.19	20 947.30	12 700.89		2 674.95
2013	38 275.16	35 609.65	21 935.48	13 674.17		2 665.51
2014	40 029.37	37 325.80	22 780.00	14 545.81		2 703.57
2015	42 333.76	39 774.74	23 494.01	16 280.73		2 559.02
2016	45 532.89	43 367.00	22 886.33	20 480.67		2 165.89
2017	46 578.44	44 223.25	22 399.54	21 823.71		2 355.19
2018	48 398.55	45 867.79	22 073.87	23 793.91		2 530.76
2019	49 940.65	47 420.74	22 355.02	25 065.71		2 519.91
2020	45 837.76	43 751.07	20 893.36	22 857.71		2 086.69
2021	49 913.00	48 053.74	21 959.30	26 094.44		1 859.26
2022	52 331.20	50 433.09	22 653.62	27 779.47	122.30	1 898.12
2023	54 655.43	52 622.97	23 870.29	28 752.68	109.29	1 923.17
Incremento 23/22	4%	4%	5%	4%	-11%	1%
Variación media 23/18	2%	3%	1.6%	4%		-5%
Incremento 23/13	43%	48%	9%	110%		-28%
Variación media 23/13	4%	4%	1%	8%		-3%



10.13 EVOLUCIÓN DEL NÚMERO DE CLIENTES POR NIVEL DE TENSIÓN

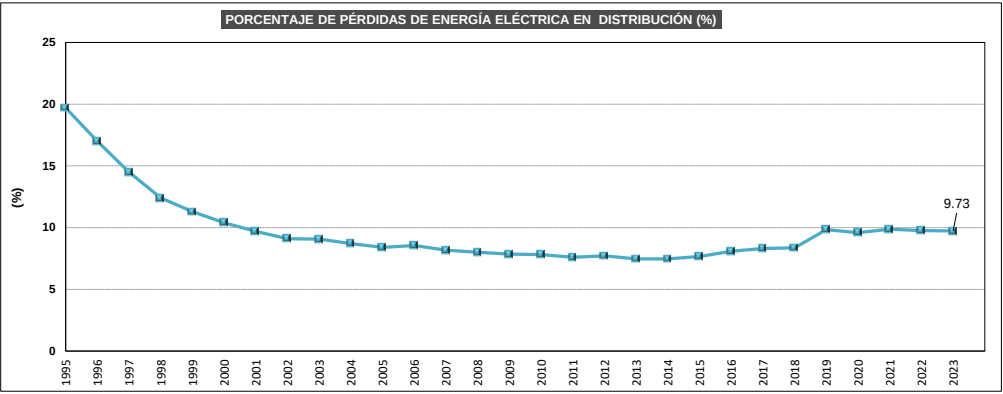
Año	Cientes	Mercado Libre				Total Libre	Mercado Regulado				Total Regulado	Δ Anual %
	Totales	MAT	AT	MT	BT		MAT	AT	MT	BT		
1995	2 491 835	7	28	156	15	206		13	3 747	2 487 869	2 491 629	
1996	2 775 713	8	28	153	10	199		15	4 866	2 770 633	2 775 514	10%
1997	2 964 315	11	35	157	9	212		17	4 861	2 959 225	2 964 103	6%
1998	3 057 320	17	37	163	1	218		13	5 372	3 051 717	3 057 102	3%
1999	3 217 058	13	41	168	1	223		20	5 774	3 211 041	3 216 835	5%
2000	3 352 209	15	40	174		229		9	6 259	3 345 712	3 351 980	4%
2001	3 462 851	23	38	180		241		9	6 752	3 455 849	3 462 610	3%
2002	3 614 484	32	41	188		261		11	7 166	3 607 046	3 614 223	4%
2003	3 727 266	37	35	175		247		12	7 598	3 719 409	3 727 019	3%
2004	3 860 515	37	33	175		245		19	8 120	3 852 131	3 860 270	3%
2005	3 977 100	36	36	172		244		18	8 727	3 968 111	3 976 856	3%
2006	4 165 274	38	36	163		237		22	9 454	4 155 561	4 165 037	5%
2007	4 359 862	43	34	173		250		25	10 314	4 349 273	4 359 612	4%
2008	4 624 792	44	34	180		258		24	11 422	4 613 088	4 624 534	6%
2009	4 878 964	42	40	187		269		22	12 368	4 866 305	4 878 695	5%
2010	5 170 896	48	39	171		258		23	13 331	5 157 284	5 170 638	6%
2011	5 495 222	48	45	168		261	1	24	14 409	5 480 527	5 494 961	6%
2012	5 834 887	52	46	164		262	1	19	15 886	5 818 719	5 834 625	6%
2013	6 156 315	57	57	166		280	1	19	16 943	6 139 072	6 156 035	5%
2014	6 432 743	67	60	172		299	1	16	17 700	6 414 727	6 432 444	4%
2015	6 682 028	61	53	232		346	1	17	18 796	6 662 868	6 681 682	4%
2016	6 936 508	71	52	810		933	1	16	18 705	6 916 853	6 935 575	4%
2017	7 167 734	134	56	1225		1415	1	12	18 760	7 147 546	7 166 319	3%
2018	7 376 938	185	59	1588	2	1834	1	10	19 057	7 356 036	7 375 104	3%
2019	7 566 036	230	62	1953	1	2246	1	9	19 212	7 544 568	7 563 790	2%
2020	7 779 028	255	63	2242	1	2561	1	9	19 117	7 757 340	7 776 467	3%
2021	8 144 092	263	71	2596	4	2934	1	6	19 290	8 121 861	8 141 158	4%
2022	8 349 663	187	75	2934	7	3203	1	5	19 508	8 326 946	8 346 460	2%
2023	8 584 269	301	64	2930	7	3302	0	6	19 580	8 561 381	8 580 967	3%
Incremento 23/22	3%					3%					3%	
Variación media 23/18	3%					12%					3%	
Incremento 23/13	39%					1079%					39%	
Variación media 23/13	3%					28%					3%	

Leyenda:
MTA: Muy Alta Tensión
AT: Alta Tensión
MT: Media Tensión
BT: Baja Tensión



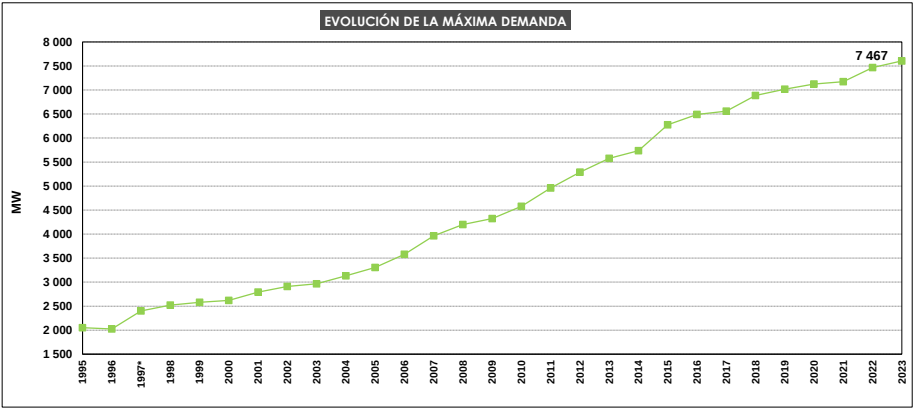
10.15 EVOLUCIÓN DE LAS PÉRDIDAS EN DISTRIBUCIÓN (%)

Año	Pérdidas (%)
1995	19.70
1996	17.00
1997	14.50
1998	12.40
1999	11.30
2000	10.40
2001	9.70
2002	9.10
2003	9.07
2004	8.70
2005	8.40
2006	8.55
2007	8.17
2008	8.00
2009	7.85
2010	7.81
2011	7.60
2012	7.72
2013	7.47
2014	7.47
2015	7.67
2016	8.09
2017	8.31
2018	8.36
2019	9.83
2020	9.60
2021	9.88
2022	9.76
2023	9.73



10.16 EVOLUCIÓN DE LA MÁXIMA DEMANDA DEL SEIN (MW)

Año	Máxima Demanda (MW)	Tasa Anual (%)
1995	2 052.10	
1996	2 024.93	-1.32
1997*	2 400.90	18.57
1998	2 520.60	4.99
1999	2 580.30	2.37
2000	2 620.70	1.57
2001	2 792.22	6.54
2002	2 908.20	4.15
2003	2 964.75	1.94
2004	3 130.85	5.60
2005	3 305.01	5.56
2006	3 580.00	8.32
2007	3 965.60	10.77
2008	4 198.66	5.88
2009	4 322.37	2.95
2010	4 578.94	5.94
2011	4 961.19	8.35
2012	5 291.00	6.65
2013	5 575.24	5.37
2014	5 737.27	2.91
2015	6 275.00	9.37
2016	6 492.41	3.46
2017	6 559.06	1.03
2018	6 884.59	4.96
2019	7 017.57	1.93
2020	7 125.30	1.54
2021	7 173.03	0.67
2022	7 467.45	4.10
2023	7 605.51	1.85
Incremento 23/22	2%	
Variación media 23/18	2%	
Incremento 23/13	36%	
Variación media 23/13	3%	



[*] De 1997 a 1999: SICN + SIS
Desde el año 2001 se interconectan los sistemas SICN y SIS para conformar el Sistema Eléctrico Interconectado Nacional - SEIN

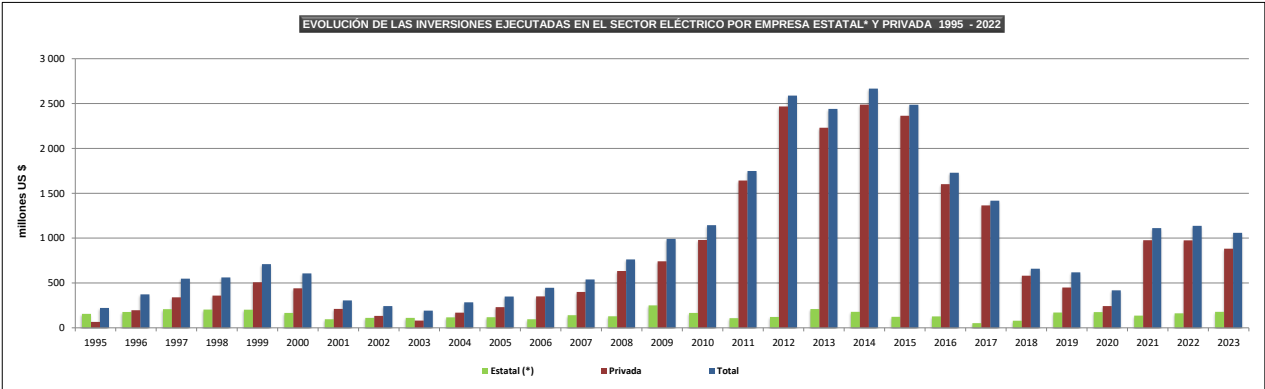
10.17. EVOLUCIÓN DE INVERSIONES ¹

10.17.1 Resumen de evolución de inversiones ejecutadas por sector y actividad (millones US \$)

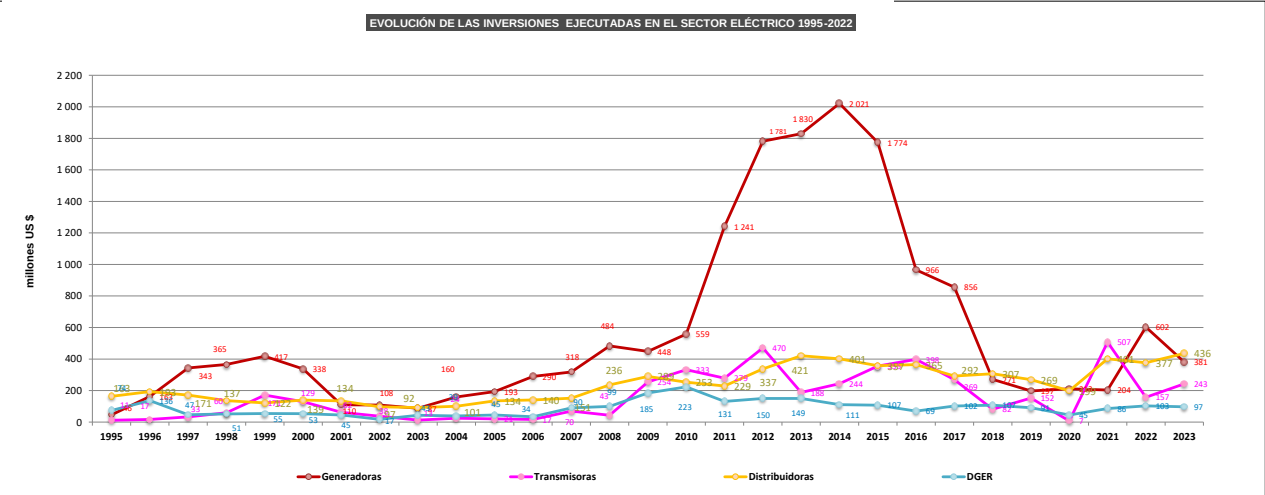
Año	Inversión Total	Total Empresas				Empresas Estatales				Empresas Privadas				Electrificación Rural ²
		Total	Generadoras	Transmisoras	Distribuidoras	Total	Generadoras	Transmisoras	Distribuidoras	Total	Generadoras	Transmisoras	Distribuidoras	
1995	295.2	220.9	46.1	11.4	163.4	154.7	38.4	11.4	104.9	66.2	7.6		58.5	74.3
1996	508.8	372.9	163.0	16.6	193.3	177.0	65.3	16.6	95.1	195.9	97.8		98.2	136.0
1997	594.2	547.6	343.4	32.7	171.5	207.9	103.2	32.7	71.9	339.7	240.2		99.5	46.6
1998	613.0	561.5	305.4	59.6	136.5	202.8	114.5	46.2	42.1	358.7	250.8	13.5	94.4	51.5
1999	764.2	709.5	417.2	170.8	121.5	201.7	136.3	31.3	34.1	507.8	280.9	139.5	87.4	54.6
2000	659.2	605.8	337.7	128.9	139.2	166.0	123.2	26.7	16.1	439.8	214.4	102.2	123.1	53.4
2001*	351.1	305.9	109.8	61.7	134.4	95.1	76.3	3.1	15.7	210.8	33.5	58.6	118.7	45.2
2002	259.5	242.2	107.8	37.7	96.7	109.9	77.8	0.4	31.7	132.3	30.0	37.3	65.0	17.3
2003	235.4	192.0	87.2	12.8	92.0	110.8	67.1		43.7	81.1	20.1	12.8	48.2	43.4
2004	323.8	284.7	159.6	24.4	100.8	116.1	67.0		49.1	168.6	92.6	24.4	51.6	39.1
2005	393.7	348.5	193.5	20.6	134.4	117.4	53.8		63.7	231.1	139.7	20.6	70.7	45.2
2006	480.2	446.2	289.6	16.5	140.1	95.7	29.2		66.5	350.5	260.4	16.5	73.5	34.0
2007	629.0	539.1	318.0	69.6	151.4	139.7	73.5		66.2	399.3	244.5	69.6	85.2	89.9
2008	862.0	762.5	483.5	43.1	235.9	128.9	26.5		102.4	633.6	457.0	43.1	133.5	99.5
2009	1 176.8	992.1	448.4	254.4	289.4	250.3	88.8		161.4	741.8	359.5	254.4	127.9	184.7
2010	1 367.7	1 144.4	558.6	332.6	253.2	165.6	25.1		140.5	978.8	533.5	332.6	112.7	223.4
2011	1 880.0	1 748.7	1 240.8	278.5	229.4	107.0	28.6		78.4	1 641.7	1 212.2	278.5	151.0	131.3
2012	2 738.9	2 589.0	1 781.4	470.3	337.4	121.6	35.3		86.3	2 467.4	1 746.1	470.3	251.0	149.9
2013	2 589.0	2 439.6	1 829.8	188.4	421.4	209.3	65.2		144.1	2 230.3	1 764.6	188.4	277.3	149.4
2014	2 777.6	2 666.6	2 021.3	244.0	401.3	178.3	62.1		116.2	2 488.3	1 959.2	244.0	285.1	111.0
2015	2 593.5	2 486.3	1 773.9	355.0	357.4	122.1	43.0		79.0	2 364.2	1 730.9	355.0	278.4	107.1
2016	1 798.3	1 728.9	965.9	398.3	364.7	127.0	27.0		100.0	1 601.9	938.9	398.3	264.7	69.4
2017	1 519.1	1 417.3	855.9	269.0	292.3	52.0	20.4		31.6	1 365.3	835.5	269.0	260.7	101.8
2018	766.2	659.2	270.7	81.6	306.9	78.5	17.9		60.5	580.7	252.8	81.6	246.4	107.0
2019	709.6	618.4	197.3	152.2	268.8	170.0	19.7		150.3	448.4	177.6	152.2	118.6	91.3
2020	462.5	417.3	211.5	7.1	198.7	174.3	94.1		80.1	243.1	117.4	7.1	118.6	45.2
2021	1 197.8	1 111.9	203.9	507.0	401.1	135.7	12.7		123.0	976.3	191.2	507.0	278.1	85.8
2022	1 239.6	1 136.5	602.3	157.4	376.9	161.3	15.1		146.2	975.2	587.2	157.4	230.7	103.1
2023	1 156.7	1 059.5	380.8	243.0	435.6	177.9	11.5		166.4	881.6	369.3	243.0	269.2	97.2
Incremento 23/22	-7%	-7%	-37%	54%	16%	10%	-24%		14%	-10%	-37%	54%	17%	-6%
Variación media 23/18	9%	10%	7%	24%	7%	18%	-8%		22%	9%	8%	24%	2%	-1.9%
Incremento 23/13	-55%	-57%	-79%	29%	3%	-15%	-82%		15%	-60%	-79%	29%	-3%	-35%
Variación media 23/13	-8%	-8%	-15%	3%	0%	-2%	-16%		1%	-9%	-14%	3%	0%	-4%

¹ Información preliminar a diciembre 2023.

² Corresponde a inversiones ejecutadas por la Dirección General de Electrificación Rural.



(*) Incluye inversión realizada por la DGER



10.17.2 Inversiones ejecutadas por empresas privadas¹ 1995 - 2023 (miles de US\$)

Nº	Actividad de generación	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total	
1	AC ENERGIA S.A. (*)																189.00	96.00													0.00	
2	AGROINDUSTRIAL PARAMONGA S.A.																														285.00	
3	AGROINDUSTRIAS SAN JACINTO (*)																														5 630.84	
4	AGROPECUARIA AURORA S.A.C.																														1 683.77	
5	AGUAS Y ENERGIA PERU S.A.													364.00	10 952.00	13 012.00	5 393.00	1 075.00	166.00			74 625.00	7 000.10	5 395.24		235.60			1 598.54	85.23	112 587.10	
6	ANDEAN POWER S.A.																		2 395.00	933.00			6 805.00	16 324.70	7 274.05						33 731.75	
7	ANDES GENERATING CORPORATION S.A.C. (*)																							7 815.00							7 815.00	
8	BIOENERGIA DEL CHIRA S.A.																		200.00												200.00	
9	CEMENTOS LIMA S.A.		2 400.00	3 900.00	3 300.00	37 300.00	597.00												-	-											47 497.00	
10	CEMENTOS NORTE PACASMAYO ENERGIA S.A.		24 000.00		6 147.00	25.00	24.00												9.00												30 205.00	
11	CENTRAL HIDROELECTRICA HUALLAGA S.A.**																876.00	285.00	127.70		15.00									82.41	1 780.70	
12	CENTRAL HIDROELECTRICA LANGUI S.A.																														0.00	
13	CENTRAL HIDROELECTRICA SAN HILARION S.A.																			419 108.00	246 828.66	210 720.00	102 043.80								978 700.46	
14	CERRO DEL AGUILA S.A.																			1 809.80	4 717.46	1 493.94	105.40	103.35	1 109.33						17 653.18	
15	CHINANGO S.A.C.												21 912.00	87 705.00	114 259.00	668.00	999.00	1 455.50	673.30	1 809.80	4 717.46	1 964.60	1 221.80		6 359.30	5 677.20	1 765.60	2 667.60	4 475.50	324 396.30		
16	COMPANIA ELECTRICA EL PLATANAL S.A. (CELEPSA)																		4 709.00		8 230.50	3 634.20	1 964.60	1 221.80							6 860.00	
17	COMPANIA MINERA PODEROSA S.A. *																						6 860.00								6 860.00	
18	COMPANIA VERACRUZ S.A.C. (*)																							22 955.78							22 955.78	
19	CONSORCIO ENERGIA LIMPIA S.A.																					2 440.00	837.50	275.00							3 552.50	
20	CORPORACION MINERA DEL PERU S.A. *															800.00	950.00	1 500.00	200.00	350.00	400.00		2 530.00	5 566.00						14 471.00		
21	DUKE ENERGY INTERNATIONAL EGENOR S. EN C. POR A.		521.00	19 214.00	42 870.00	37 036.00	26 544.00	12 531.00	5 340.00	2 585.00	3 537.00	2 885.00	3 945.00	10 410.00	50 137.00	59 756.00	14 857.00	2 327.00	4 851.00	5 951.00	4 268.65	5 522.49	5 522.88	2 887.28							323 498.30	
22	ECO ENERGY SAC																		58.00												58.00	
23	ECEJUNIN TULUMAYO IV S.A.C. *																														10 456.12	
24	ECEJUNIN TULUMAYO V S.A.C. *																						4 734.00	4 179.12	1 583.00						4 115.80	
25	ELECTRICA RIO DOBLE SA																		25 696.00	8 895.00	57.00		4 115.80								34 648.00	
26	ELECTRICA SANTA ROSA S.A.C.																1 349.00	96 442.00	750.00												98 541.00	
27	ELECTRICIDAD ANDINA S.A.													1 873.00	2 389.00	1 062.00	744.00	13 714.00	2 451.00												22 233.00	
28	ELECTRO ARAZA S.A.C. **																														1 119.50	
29	ELECTRO ZANA S.A.C. (*)																														28 525.60	
30	EMPRESA ADMINISTRADORA CHUNGAR S.A.C.				160.00	352.00	1 255.00	50.10																								1 817.10
31	EMPRESA DE GENERACION ELECTRICA CANHUA S.A.		50.00	196.00	281.00	104.00	388.00	0.00					597.00	71.00	2 690.00	851.00	-	-	-	-	-										5 228.00	
32	EMPRESA DE GENERACION ELECTRICA CANCHAYLLO S.A.C. *																				2 500.00	5 768.97	13 536.90								21 805.87	
33	EMPRESA DE GENERACION ELECTRICA CHEVES S.A.												630.00		3 331.00	1 593.00	24 698.00	150 365.00	127 994.00	159 724.00	52 511.00										520 846.00	
34	EMPRESA DE GENERACION ELECTRICA COLCA S.A.*																														1 701.20	
35	EMPRESA DE GENERACION ELECTRICA DE JUNIN S.A.C.																						1 544.40	156.80							79 333.24	
36	EMPRESA DE GENERACION ELECTRICA HUANZA S.A																				16 675.00	30 884.00	30 884.00	890.24				1 136.30	453.62	322.81	69 562.73	
37	EMPRESA DE GENERACION ELECTRICA RIO BAÑOS S.A.C.*							2 965.00	1 275.00		180.00	220.00	260.00							62 750.00				21 500.00							21 500.00	
38	EMPRESA DE GENERACION ELECTRICA SANTA ANA S.R.L. *																						1 764.00	24 104.50	5 593.20	141.60					31 603.30	
39	EMPRESA DE GENERACION ELECTRICA SANTA LORENZA S.A.C. *																							9 288.00	13 190.85	4 545.30					27 024.15	
40	EMPRESA DE GENERACION HIDRAULICA SELVA S.A. *																						2 784.00								2 784.00	
41	EMPRESA DE GENERACION HIDROELECTRICA DEL CUSCO S.A. *													7 149.00	4 291.00								5 400.00	120.00							16 960.00	
42	EMPRESA DE GENERACION HUALLAGA S.A.																		472 406.00	341 172.00	317 876.30	168 900.00	44 176.62	579.80							1 345 110.72	
43	EMPRESA DE GENERACION MACUSANI S.A.															86.00		492.70													4 115.80	
44	EMPRESA DE GENERACION TERMOELECTRICA VENTANILLA S.A.		38 550.00	47 228.00	34 264.00	6 884.00	150.00	238.00	184.00	152.00	30 775.00	90 228.00	14 062.00																		262 715.00	
45	EMPRESA ELECTRICA AGUA AZUL S.A.																														28 582.58	
46	EMPRESA ELECTRICA AGUA AZUL S.A.																														26 982.58	
47	EMPRESA ELECTRICA NUEVA ESPERANZA SRL															5 929.00	37 867.00	2 616.00	992.00	1 286.00	604.94	960.00	26 022.58		2 560.00						69 286.90	
48	EMPRESA ENERGETICA MONZON SAC																					19 991.96									16 371.99	
49	EMPRESA GEN. Y COMER. DE SERV.PÚB.DE ELECTRICIDAD PANGOA S.A.				792.00	25.50	23.00																	4 669.00	9 009.37	2 693.63						840.50
50	EMPRESA HYDRIKA 1 S.A.C. *																														2 777.60	
51	EMPRESA HYDRIKA 3 S.A.C. *																						2 777.60								918.00	
52	EMPRESA PERUANA DE INVERSIONES EN ENERGIAS RENOVABLES S.A.C.																														10 124.73	
53	ENEL GENERACION PERU S.A.A.	7 634.63	58 480.46	113 616.85	96 149.62	119 312.06	48 150.00	111.00	4 915.00	5 278.00	11 866.00	24 818.00	94 821.00	23 375.00	79 556.00	60 499.00	29 495.00	30 762.00	718.00	776.00	1 152.00	237.93									7 240.80	
54	ENEL GENERACION PILA S.A.		6.00	469.00	34 617.00	2 336.00	7 763.00	1 342.00	916.00	640.00	4 602.00	6 105.00	8 225.00	6 774.00	1 474.00	5 769.00	1 141.00	56 940.70	48 533.00	16 923.00	5 999.99	31 543.23	21 507.90	22 334.80	65 217.34		35.84			74 951.99	1 221 552.57	
55	ENEL GREEN POWER S.A.C																															2 558.91
56	ENERGIA EOLICA SA																155 000.00	2 532.70	941.00			55 000.00							175.64	15 557.63	372 585.91	
57	ENERGIA RENOVABLE DEL SUR S.A. **																														207.00	
58	ENERGIA RENOVABLE LA JOYA S.A. **																														105 012.00	
59	ENGIE ENERGIA PERU S.A.																														2 732.50	
60	ENIX POWER PERU S.A.		32 416.11	37 156.51	104 710.86	86 324.00	970.00	5 090.00	2 433.00	34 608.00	11 653.00	56 770.00		78 712.00	69 851.00	33 109.00	88 781.00	270 138.00	490 574.00	206 693.00	281 064.61	339 247.84	181 556.55	72 452.36	4 492.69	31 305.25	19 018.40	102 684.20	362 752.32	97 124.54	3 101 686.24	
61	GENERACION ANDINA S.A.																				7 741.00											

10.17.3 Inversiones ejecutadas por empresas estatales¹ : Período 1995 - 2023 (miles de US\$)

Nº	Actividad de generación	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
1	ELECTROANDES S.A.*	198	1 167	1 015	467	3 786	2 922	949											8 636								7 091				26 231
2	ELECTROLIMA																														0
3	ELECTROPERU S.A.	23 670	26 810	39 439	14 522	19 314	20 688	3 172	4 468	4 113	2 654	4 050	3 700	5 020	5 389	4 644	6 840	8 665		14 257	31 853	17 248	21 035	16 467	5 520	9 110	5 197		13 032	8 259	339 136
4	EMPRESA DE GENERACION DE ENERGIA ELECTRICA DEL CENTRO S.A.				10 360	25 640	21 600	47 602	67 261	58 696	56 334	41 292	20 787	57 192	2 055	0	0	0													408 819
5	EMPRESA DE GENERACION ELECTRICA DE AREQUIPA S.A.	1 496	4 194	6 890	29 742	31 717	17 715	2 532	344	1 470	6 351	6 561	3 251	9 585	10 729	25 289	5 465	1 454		25	255	144	1 052	830	277	5 543	569	84 522	191	126	125 442
6	EMPRESA DE GENERACION ELECTRICA DEL SUR S.A.	72	227	1 362	5 878	3 425	985	1 416	636	219	188	227	254	225	4 992	4 537	1 212	158	342	544	161	1 383	691	541	2 058	1 978	524	618	20	23	34 897
7	EMPRESA DE GENERACION ELECTRICA MACHUPICCHU S.A.	4 517	2 892	4 895	5 062	13 312	34 590	12 855	4 446	1 893	567	1 180	126	711	2 239	53 923	8 801	16 560	23 215	45 807	25 096	18 107	3 650	1 407	867	1 079	1 011	1 011	991	2 288	293 098
8	EMPRESA DE GENERACIÓN ELECTRICA SAN GABAN S.A.	8 465	29 977	49 636	48 509	39 138	24 716	7 751	643	714	907	457	1 080	767	1 109	456	2 796	1 758	3 062	4 352	4 837	5 237	776	1 671	3 933	7 012	2 893	3 764	910	816	258 143
Total		38 418	65 267	103 237	114 539	136 332	123 216	76 277	77 798	67 106	67 001	53 767	29 198	73 499	26 513	88 849	25 114	28 596	35 280	65 215	62 091	43 027	26 983	20 363	17 920	19 748	94 147	12 675	15 079	11 511	1 618 766

Nº	Actividad de transmisión	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
1	ELECTROLIMA																														0
2	ELECTROPERU S.A.																														0
3	EMPRESA DE TRANSMISIÓN ELÉCTRICA DEL CENTRO NORTE S.A.	3 788	16 601	15579	33 390	27 311	23 275	2 644	86																						122 674
4	EMPRESA DE TRANSMISIÓN ELECTRICA DEL SUR S.A.	7 625	0	17 142	5 738	2 322	2 992	472	281																						36 572
5	INADE - PROYECTO ESPECIAL OLMOS TINAJONES				7 027	1 685	423		10																						9 145
Total		11 413	16 601	32 721	46 155	31 318	26 690	3 116	377	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168 391

Actividad de distribución	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total	
1 ELECTRO ORIENTE S.A.	677	9 952	5 902	9 298	8 135	2 339	7 706	2 338		851	2 312	4 562	6 538	16 874	29 915	9 637	3 499		19 210					12 747	27 870	3 792	9 691	18 545	15 185	227 573	
2 ELECTRO PUNO S.A.A.						1 161	16	482	1 208	204	1 280	1 215		342	4 681	3 427	2 040	7 329	1 480			2 500		1 741	4 195	2 247	6 180	4 038		45 765	
3 ELECTRO SUR ESTE S.A.A.	48 943	17 612	22 375	26 387	16 793	2 314	2 541	2 628	2 700	2 588	5 481	3 691	15 301	13 048	7 654	23 471	10 435	15 172	20 135	30 593	29 595	30 665	19 913	14 441	16 662	17 269	15 225	15 600	13 627	462 860	
4 ELECTRO SUR MEDIO S.A.A.	5 788	10 318																												16 106	
5 ELECTRO TOCACHE S.A.																	156													156	
6 ELECTRO UCAYALI S.A.					1 122	1 363	559	337	93		338	1 273	1 531		3 804	2 632.000	6 393.000		12 629.000			2 600.000	2 755.227	4 065.459	7 102.249	8 735.955	7 752.809	4 291.666		69 377	
7 ELECTROCENTRO S.A.	11 849	17 145	6 522					3 312	15 741	13 218	16 103	16 699	10 091	20 851	41 043	33 261	13 306	13 774	24 315	24 905	30 006	28 079		10 121	7 312	8 399	12 444	22 631	35 604	436 731	
8 ELECTROLIMA																														0	
9 ELECTRONOROESTE S.A.	10 705	12 108	19 868					1 744	2 006	5 355	6 465	7 907	7 547	9 518	12 874	9 313	6 172	8 784	20 133	3 804	19 444	6 747	493	2 236	25 562	10 947	17 837	17 762	24 548	269 879	
10 ELECTRONORTE S.A.	2 493	10 362	4 692					5 385	3 282	5 467	4 687	4 789	5 808	6 336	19 311	16 366	10 611	14 356	5 976	7 572	9 600	1 762	5 127	10 159	4 466	8 090	16 429	16 646	199 772		
11 ELECTROSUR S.A.	998	3 856	2 857	1 957	1 093	1 293	999	1 537	1 279	1 150	1 360	2 183	1 313	2 135	3 468	6 487	2 448	5 586	1 346	2 046				5 313	9 500	6 489	14 027	4 000	112	84 830	
12 ELECTRO NORTE MEDIO - HIDRANDINA S.A.	16 692	4 796	1 239					8 368	13 385	16 150	19 008	15 852	13 470	27 740	31 438	25 874	14 451	11 074	24 005	30 019		19 800	4 876	3 815	15 074	10 449	22 051	23 699	36 602	409 927	
13 INADE - PROYECTO ESPECIAL CHAVIMOCHIC						351	0					136																	456	943	
14 SOCIEDAD ELECTRICA DEL SUR OESTE S.A. (SEAL)	6 737	8 959	8 477	4 455	6 931	7 262	3 845	5 549	4 033	4 131	6 606	8 237	4 617	5 525	6 944	10 029	8 867	10 268	14 879	17 302		1 846	929	22 775	7 669	14 239	17 369	456	223 789		
15 EMP.DE ADMIN. DE INFRAEST. ELECTRICA S.A																									4 046	2 022	2 022	4 966	6 665		19 722
Total	104 882	95 108	71 932	42 097	34 075	16 083	15 666	31 680	43 727	49 114	63 639	66 544	66 216	102 369	161 132	140 497	78 378	86 343	144 108	116 241	79 044	99 992	31 645	60 534	150 256	80 126	122 987	146 202	166 814	2 467 430	

10.17.4 Inversiones ejecutadas por la Dirección General de Electrificación Rural ^(*) : Período 1995 - 2022 (miles de US\$)

1	Inversiones ejecutadas por la Dirección General de Electrificación R	74 288	135 950	46 558	51 488	54 640	53 411	45 167	17 330	43 428	39 078	45 244	33 953	89 927	99 487	184 722	223 376	131 275	149 881	149 414	111 024	107 150	69 371	101 765	106 963	91 253	45 162	85 825	103 074	97 233	2 387 128
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Total General		229 001	312 926	254 448	254 279	256 365	219 400	140 226	127 185	154 260	155 193	162 650	129 695	229 642	228 369	434 703	388 987	238 249	271 504	358 736	289 355	229 221	196 345	153 773	185 417	261 257	219 435	221 488	264 355	275 558	6 641 715
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¹ Información preliminar a diciembre 2023.

^(*) La DEP y el FONER se fusionaron en mayo de 2007 creándose la Dirección General de Electrificación Rural - DGER

10.17.5 Total de Inversiones ejecutadas¹ 1995 - 2023 (millones US\$)

10.17.5.1 Total por empresas privadas, estatales y por la Dirección General de Electrificación Rural (millones US\$)

Total Inversiones*	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
	295.2	508.7	593.5	612.5	763.7	653.0	336.4	247.2	226.4	320.3	392.5	469.9	618.2	847.6	1 154.3	1 367.7	1 880.0	2 738.9	2 589.0	2 566.5	2 593.5	1 798.2	1 519.0	766.2	709.6	462.5	1 191.4	1 239.6	1 156.7	30 618.1

1 Información preliminar a diciembre 2022.
* Se incluyen las inversiones estatales, privadas y en electrificación rural

10.17.5.2 Desagregado por empresas privadas, estatales y por la Dirección General de Electrificación Rural (millones US\$)

Empresa	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
Estatad	154.7	177.0	207.9	202.8	201.7	166.0	95.1	109.9	110.8	116.1	117.4	95.7	139.7	128.9	250.0	165.6	107.0	121.6	209.3	159.3	122.1	127.0	52.0	78.5	170.0	174.3	135.7	161.3	177.9	4 235.1
Privada	66.2	195.8	339.1	358.2	507.4	433.6	196.2	120.0	72.2	165.1	229.9	340.2	388.5	619.2	719.6	978.8	1 641.8	2 467.4	2 230.3	2 296.2	2 364.2	1 601.8	1 365.3	580.7	448.4	243.1	969.9	975.2	881.6	23 795.6
Rural (*)	74.3	136.0	46.6	51.5	54.6	53.4	45.2	17.3	43.4	39.1	45.2	34.0	89.9	99.5	184.7	223.4	131.3	149.9	149.4	111.0	107.1	69.4	101.8	107.0	91.3	45.2	85.8	103.1	97.2	2 587.4

