



INSTITUTO NICARAGÜENSE DE ENERGÍA
ENTE REGULADOR

RESUMEN DE LOS PRINCIPALES INDICADORES DEL SUBSECTOR ELECTRICIDAD
SISTEMA INTERCONECTADO NACIONAL (S.I.N.) Y SISTEMAS AISLADOS
AÑO 2018

Conceptos	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Annual
Capacidad Instalada Nominal (MW)	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37	1,482.37
Sistema Interconectado Nacional (S.I.N.)	418,554.64	369,800.32	429,209.79	414,291.75	403,828.60	345,890.46	374,576.59	376,326.32	346,685.83	351,890.25	376,057.33	396,670.94	4,603,782.82
Biomasa	104,549.28	96,724.75	104,454.76	99,517.81	74,161.13	44,994.91	20,403.86	10,529.84	0.00	217.73	47,751.05	98,392.27	701,697.40
Eólica	99,102.36	104,362.95	105,575.78	76,502.49	29,127.80	46,466.82	77,159.32	62,634.10	31,597.61	27,276.77	57,960.57	82,825.20	800,591.76
Geotérmica	63,159.50	47,077.27	69,087.73	62,121.61	72,292.77	70,039.36	71,585.45	71,705.24	66,744.71	69,586.46	67,489.29	70,505.99	801,395.39
Hidroeléctrica	38,682.75	38,463.01	33,989.28	42,642.31	43,861.48	51,216.11	25,375.99	24,052.01	22,510.32	38,208.04	28,446.86	23,443.61	410,891.78
Solar	2,139.93	2,041.84	2,257.96	2,185.07	1,720.13	1,804.40	2,020.32	1,982.16	1,903.80	1,671.91	2,138.28	2,119.60	23,985.40
Térmica	110,920.83	81,130.51	113,844.27	131,322.46	182,665.28	131,368.86	178,031.65	205,422.97	223,929.38	214,929.34	172,271.28	119,384.26	1,865,221.09
Sistema Aislado Nacional (S.A.N.)	3,988.20	3,798.67	4,304.70	4,342.47	4,072.63	4,027.86	4,052.47	4,321.77	4,191.63	4,143.43	4,170.89	4,214.45	49,629.16
Térmica	3,988.20	3,798.67	4,304.70	4,342.47	4,072.63	4,027.86	4,052.47	4,321.77	4,191.63	4,143.43	4,170.89	4,214.45	49,629.16
Generación Bruta (MWh)	422,542.84	373,598.99	433,514.49	418,634.22	407,901.23	349,918.31	378,629.06	380,648.09	350,877.45	356,033.68	380,228.21	400,885.39	4,653,411.98
Sistema Interconectado Nacional (S.I.N.)	54,764.12	50,295.37	56,494.64	55,390.46	35,889.87	19,387.21	17,110.09	16,845.84	13,953.87	15,770.21	30,692.92	51,708.31	418,302.91
Biomasa	42,218.24	40,173.94	43,738.23	42,872.45	21,963.05	6,764.18	3,165.65	1,961.15	0.00	42.32	17,506.83	39,304.26	259,710.29
Eólica	1,498.39	1,557.49	1,552.78	1,145.91	548.84	810.28	1,159.90	937.80	657.21	616.47	842.84	1,241.29	12,569.20
Geotérmica	6,586.37	4,875.48	6,559.51	6,096.40	6,615.37	6,397.54	6,604.65	6,624.45	6,150.75	7,982.80	6,378.24	6,780.73	77,652.28
Hidroeléctrica	382.77	383.34	373.26	522.70	477.57	538.73	265.85	280.71	227.92	342.26	336.18	232.86	4,364.14
Solar	16.64	14.82	16.38	15.38	14.87	14.32	13.40	14.37	12.07	13.34	14.80	14.65	175.02
Térmica	4,061.70	3,290.31	4,254.49	4,737.63	6,270.17	4,862.16	5,900.64	7,027.35	6,905.93	6,773.03	5,614.04	4,134.52	63,831.98
Sistema Aislado Nacional (S.A.N.)	209.05	199.57	227.99	222.07	210.67	185.66	209.48	218.45	203.07	204.80	196.35	205.36	2,492.52
Térmica	209.05	199.57	227.99	222.07	210.67	185.66	209.48	218.45	203.07	204.80	196.35	205.36	2,492.52
Consumo Propio (MWh)	54,973.17	50,494.94	56,722.63	55,612.54	36,100.54	19,572.87	17,319.56	17,064.29	14,156.94	15,975.02	30,889.27	51,913.66	420,795.43
Sistema Interconectado Nacional (S.I.N.)	363,790.51	319,511.42	372,715.15	358,907.42	367,943.16	326,503.25	357,466.51	359,493.96	332,738.40	336,120.04	345,364.41	344,965.36	4,185,519.58
Biomasa	62,331.03	56,550.82	60,716.54	56,645.36	52,198.08	38,230.72	17,238.21	8,568.68	0.00	175.42	30,244.23	59,088.02	441,987.11
Eólica	97,603.96	102,805.46	104,023.00	75,356.58	28,578.96	45,656.53	75,999.43	61,696.30	30,940.40	26,660.30	57,117.73	81,583.91	788,022.56
Geotérmica	56,573.13	42,201.79	62,528.22	56,025.21	65,677.41	63,641.82	64,980.80	65,080.79	60,593.96	61,603.66	61,111.05	63,725.26	723,743.11
Hidroeléctrica	38,299.98	38,079.67	33,616.02	42,119.61	43,383.91	50,677.38	25,110.14	23,771.30	22,282.40	37,865.78	28,110.69	23,210.75	406,527.64
Solar	2,123.29	2,027.02	2,241.58	2,169.69	1,705.26	1,790.09	2,006.92	1,967.79	1,891.74	1,658.57	2,123.48	2,104.95	23,810.37
Térmica	106,859.13	77,846.67	109,589.78	126,590.97	176,399.53	126,506.70	172,131.01	198,409.09	217,029.90	208,156.31	166,657.24	115,252.47	1,801,428.79
Sistema Aislado Nacional (S.A.N.)	3,779.15	3,599.10	4,076.70	4,120.39	3,861.97	3,842.20	3,842.99	4,103.31	3,988.55	3,938.62	3,974.54	4,009.10	47,136.64
Térmica	3,779.15	3,599.10	4,076.70	4,120.39	3,861.97	3,842.20	3,842.99	4,103.31	3,988.55	3,938.62	3,974.54	4,009.10	47,136.64
Generación Neta (MWh)	367,569.67	323,110.52	376,791.85	363,027.81	371,805.12	330,345.45	361,309.50	363,597.27	336,726.95	340,058.66	349,338.95	348,974.46	4,232,656.22
Oferta Total (MWh)	367,428.37	323,106.76	376,272.48	362,601.92	371,288.31	330,214.62	361,010.64	363,203.93	336,652.66	339,769.83	349,702.85	349,106.55	4,230,358.93
Oferta Disponible (SIN)	363,649.21	319,507.66	372,195.78	358,481.53	367,426.34	326,372.42	357,167.64	359,100.62	332,664.10	335,831.21	345,728.31	345,097.46	4,183,222.28
Oferta Disponible (Sistemas Aislados)	3,779.15	3,599.10	4,076.70	4,120.39	3,861.97	3,842.20	3,842.99	4,103.31	3,988.55	3,938.62	3,974.54	4,009.10	47,136.64
Interconexión Neta	-141.30	-3.76	-519.37	-425.90	-516.81	-130.83	-298.86	-393.34	-74.30	-288.83	363.91	132.09	-2,297.30
Importaciones de Energía	12,895.07	19,488.82	20,077.51	32,237.89	14,393.12	12,483.33	14,054.24	16,858.00	22,408.30	15,849.41	13,582.78	6,773.47	201,101.94
Pérdidas de Energía Eléctrica en Transmisión y Distribución (MWh)													
Inyecciones Netas	378,131.40	344,785.59	396,320.82	396,060.50	385,780.95	343,492.50	375,285.85	380,052.73	360,228.21	356,912.91	367,288.08	368,605.10	4,452,944.66
Extracciones Netas	370,445.48	337,733.69	387,076.71	387,223.47	377,850.37	336,713.80	367,639.67	372,575.55	353,413.29	348,762.39	358,246.74	358,896.74	4,356,577.89
Pérdidas de Transmisión	7,685.92	7,051.90	9,244.11	8,837.03	7,930.57	6,778.71	7,646.19	7,477.19	6,814.93	8,150.52	9,041.34	9,708.36	96,366.77
Extracciones de Energía Sistema Interconectado (SIN)	360,916.78	329,067.17	375,045.18	375,227.46	364,409.44	323,863.36	353,623.60	357,723.26	338,056.31	335,163.38	345,490.41	347,516.66	4,206,103.00
Ventas de Energía Sistema Interconectado (SIN)	287,618.52	267,893.34	298,144.96	301,055.95	296,612.77	262,209.94	275,468.15	290,572.31	272,152.15	267,675.02	272,886.77	284,157.39	3,376,447.27
Pérdidas Distribución (Sistema Interconectado)	73,298.25	61,173.82	76,900.22	74,171.51	67,796.67	61,653.42	78,155.46	67,150.95	65,904.16	67,488.36	72,603.64	63,359.27	829,655.73
Pérdidas de Distribución (Sistemas Aislados)	1,386.35	1,190.07	1,737.68	1,686.41	1,198.37	1,255.38	1,441.92	1,579.66	1,482.12	1,558.59	1,536.09	1,600.16	17,652.81
Pérdidas de Transmisión	2.03%	2.05%	2.33%	2.23%	2.06%	1.97%	2.04%	1.97%	1.89%	2.28%	2.46%	2.63%	2.16%
Pérdidas de Distribución - SIN	20.31%	18.59%	20.50%	19.77%	18.60%	19.04%	22.10%	18.77%	19.50%	20.14%	21.01%	18.23%	19.73%
Pérdidas de Distribución - SAN	36.68%	33.07%	42.62%	40.93%	31.03%	32.67%	37.52%	38.50%	37.16%	39.57%	38.65%	39.91%	37.45%



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AÑO 2018

Conceptos	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Annual
Ventas de Energía Eléctrica (MWh)	293,647.34	273,700.19	304,413.13	307,072.72	304,124.30	268,723.02	282,055.96	297,671.37	278,891.96	274,469.39	280,186.40	290,875.63	3,455,831.41
Sistema Interconectado Nacional - S.I.N.	291,254.54	271,291.16	302,074.11	304,638.73	301,460.71	266,136.20	279,654.88	295,147.72	276,385.53	272,089.36	277,747.94	288,238.89	3,426,119.77
Sistema Aislado Nacional - S.A.N.	2,392.80	2,409.03	2,339.02	2,433.98	2,663.59	2,586.83	2,401.07	2,523.65	2,506.43	2,380.04	2,438.45	2,408.93	29,483.83
Exportaciones de Energía	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	227.81
Clientes	1,163,150	1,167,209	1,172,998	1,178,095	1,182,876	1,185,605	1,187,470	1,191,845	1,194,230	1,195,140	1,195,174	1,195,025	1,195,025
Sistema Interconectado Nacional - S.I.N.	1,146,083	1,150,115	1,155,878	1,159,883	1,164,086	1,166,792	1,168,657	1,173,001	1,175,359	1,176,262	1,176,346	1,176,190	1,176,190
Sistema Aislado Nacional - S.A.N.	17,067	17,094	17,120	18,212	18,790	18,813	18,813	18,844	18,871	18,878	18,828	18,835	18,835
Ingresos por Ventas de Energía Eléctrica (10³ de C\$)	1,673,413.21	1,576,679.78	1,771,770.55	1,816,117.87	1,824,457.07	1,567,286.75	1,625,146.90	1,722,237.81	1,641,221.35	1,621,946.80	1,647,139.53	1,721,808.39	20,209,226.02
Sistema Interconectado Nacional - S.I.N.	1,659,885.94	1,562,932.55	1,758,277.90	1,801,687.01	1,808,820.56	1,552,033.32	1,610,924.06	1,707,332.75	1,626,196.03	1,632,514.00	1,707,331.15	1,707,331.15	20,035,529.09
Sistema Aislado Nacional - S.A.N.	13,527.27	13,747.23	13,492.65	14,430.86	15,636.51	15,253.42	14,222.83	14,905.06	15,025.32	14,353.00	14,625.53	14,477.25	173,696.94
Precio Promedio Nacional	6.3589	6.3858	6.4254	6.5338	6.6523	6.5840	6.4782	6.4954	6.5781	6.5801	6.5907	6.6264	6.5237
Sistema Interconectado Nacional - S.I.N.	6.3656	6.3939	6.4323	6.5405	6.6613	6.5930	6.4850	6.5025	6.5855	6.5871	6.5981	6.6326	6.5310
Sistema Aislado Nacional - S.A.N.	5.5516	5.4933	5.5457	5.7056	5.6548	5.6748	5.6910	5.6827	5.7694	5.7887	5.7634	5.8965	5.6851
Insumos para Generación de Energía Eléctrica													
Sistema Interconectado Nacional (S.I.N.)													
Biomasa													
Miles de Toneladas Métricas de Bagazo Caña	330.62	301.36	316.93	336.97	201.35	96.77	38.52	16.31	0.00	3.75	140.06	320.76	2,103.40
Geotérmica													
Miles de Toneladas de Salmuera	518.96	533.96	680.14	725.06	782.86	739.72	739.72	754.68	714.31	728.68	715.20	735.90	8,369.20
Miles de Toneladas de Vapor Geotérmico	486.31	359.64	529.03	475.83	559.91	541.64	547.14	553.07	514.14	533.57	518.74	527.13	6,146.15
Hidroeléctrica													
Miles de Metros Cúbicos de Agua	84,744.67	83,089.56	83,709.68	107,509.75	103,851.29	115,147.34	55,766.41	57,730.66	47,140.69	76,158.90	66,331.43	58,148.38	939,328.74
Térmica													
Miles de Galones de Diesel	152.03	148.14	162.04	209.07	238.02	181.26	238.84	230.11	239.05	336.51	255.45	149.67	2,540.20
Miles de Galones de Fuel Oil	6,717.78	4,920.48	6,826.86	7,841.70	10,861.16	7,896.23	10,639.86	12,410.77	13,600.76	12,740.16	10,242.19	7,325.35	112,023.29
Sistema Aislado Nacional (S.A.N.)													
Térmica													
Miles de Galones de Diesel	93.11	90.70	109.62	105.93	101.32	189.51	95.37	97.43	96.45	93.50	93.19	94.88	1,261.01
Miles de Galones de Fuel Oil	191.89	191.89	201.45	210.15	201.93	106.74	198.56	216.81	203.90	208.30	198.74	207.13	2,337.51
Demanda Máxima del SIN - MW	639.24	633.61	670.32	680.77	682.62	691.92	682.52	637.95	684.30	625.55	659.25	636.23	691.92
Hora	19:00:00	20:00:00	20:00:00	20:00:00	15:00:00	11:00:00	14:00:00	12:00:00	19:00:00	15:00:00	14:00:00	19:00:00	11:00:00
Fecha	03-ene-18	28-feb-18	13-mar-18	10-abr-18	03-may-18	18-jun-18	30-jul-18	22-ago-18	26-sep-18	25-oct-18	29-nov-18	03-dic-18	18-jun-18
Demanda Mínima del SIN - MW	368.46	378.72	371.90	403.42	370.85	352.42	357.39	380.92	369.43	337.15	374.40	387.13	337.15
Hora	03:00:00	03:00:00	06:00:00	06:00:00	06:00:00	06:00:00	06:00:00	02:00:00	06:00:00	04:00:00	03:00:00	07:00:00	04:00:00
Fecha	15-ene-18	28-feb-18	30-mar-18	01-abr-18	27-may-18	14-jun-18	01-jul-18	27-ago-18	30-sep-18	07-oct-18	05-nov-18	25-dic-18	07-oct-18
Factor de Carga del SIN (%)	75.95	75.45	74.37	76.36	71.59	72.02	71.81	72.71	68.97	69.90	72.01	72.07	68.78
Nivel Inicial de Apanás - Metros Sobre Nivel del Mar	956.25	955.82	955.50	954.80	953.67	953.02	952.80	952.91	953.15	953.41	956.46	956.32	956.25
Nivel Final de Apanás - Metros Sobre Nivel del Mar	955.82	955.50	954.80	953.67	953.02	952.80	952.91	953.15	953.41	956.46	956.32	956.00	956.00
Aporte Total de Apanás - Millones de Metros Cúbicos	21.90	25.85	-15.12	-29.26	16.94	14.72	21.26	21.81	11.24	141.66	-6.92	-16.31	207.77

Fuente: Empresas Públicas y Privadas del Sistema Interconectado Nacional (S.I.N.) y Sistema Aislado Nacional (S.A.N.), Centro Nacional de Despacho de Carga (CNDCC).

Los Ingresos (C\$) corresponden al total de importes facturados a los clientes, sin incluir los impuestos (IVA y Municipales) ni Regulación.

Para el cálculo del precio promedio se utilizan solamente los importes más restituciones por concepto de: Energía, Potencia, Recargo por Bajo Factor de Potencia, Comercialización y Alumbrado Público.

Dirección de Estudios Económicos y Tarifas, DGE - INE.