

Centro Nacional de Despacho de Carga (CNDC)
Informe de Operación del SIN (Sistema Interconectado Nacional)
 Fecha: 20/09/2017

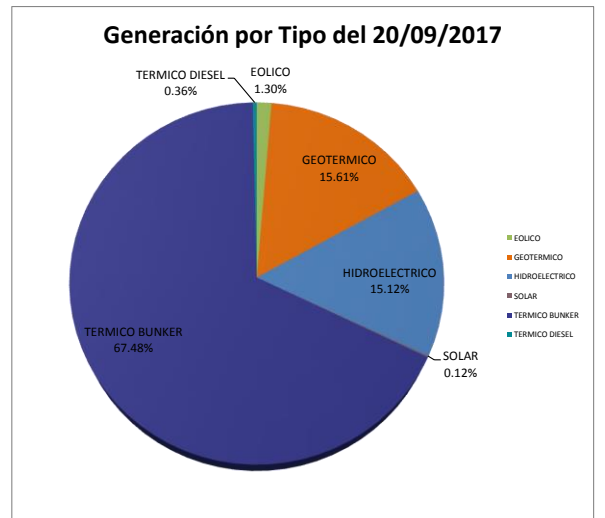
Resumen de Producción de Energía Neta (MWh) del 20/09/2017							
Agente	GGD	Real			Programado		
		Día	Mes	Año	Día	Mes	Año
ALBANISA	PCG1	221.5	2,807.4	14,954.9	232.2	5,182.4	16,328.4
	PCG2	183.9	1,976.5	10,702.2	200.6	4,646.4	16,558.0
	PCG3	148.3	2,186.2	14,315.0	169.1	5,799.2	22,697.8
	PCG4	145.8	1,457.3	6,899.1	180.9	2,299.6	6,543.4
	PCG5	90.1	666.8	4,001.7	83.9	2,291.5	5,692.1
	PCG6	276.2	4,306.0	35,379.2	242.8	6,660.1	38,158.8
	PCG7	722.8	12,352.0	101,339.1	670.7	18,002.5	109,978.2
	PCG8	307.6	4,931.9	32,371.5	454.8	10,009.0	49,541.9
	PCG9	577.2	9,128.4	73,356.4	588.8	14,330.0	101,643.0
	PCG	2,673.4	39,812.6	293,319.2	2,823.8	69,220.7	367,141.6
	PHC1	0.0	0.0	170.0	0.0	84.0	171.4
	PHC2	38.9	481.6	3,835.8	0.0	1,283.8	2,879.5
	PHC	38.9	481.6	4,005.8	0.0	1,367.8	3,050.9
	ABR	34.7	1,907.6	84,421.6	77.1	6,261.4	118,287.5
TOTAL	2,747.0	42,201.9	381,746.6	2,900.9	76,849.8	488,480.0	
AMAYO 1	AMY1	15.6	1,679.3	96,455.2	54.5	5,539.3	130,907.3
AMAYO 2	AMY2	11.9	1,241.9	63,682.0	30.3	3,803.3	76,950.2
BLUE POWER	PBP	36.1	2,090.9	98,961.0	39.8	5,796.9	132,689.2
EOLO	EOL	43.6	2,872.8	129,805.4	31.2	8,417.2	161,588.2
EEC	EEC	1,017.2	18,450.2	252,108.3	1,128.5	31,842.0	246,542.0
	EEC20				0.0	4,327.2	52,912.0
	TOTAL	1,017.2	18,450.2	252,108.3	1,128.5	36,169.2	299,454.0
GEOSA	PN1	687.0	12,474.0	142,924.8	667.8	20,141.0	150,058.0
	PN2	0.0	0.0	29,254.6	0.0	12,966.0	41,714.0
	TOTAL	687.0	12,474.0	172,179.4	667.8	33,107.0	191,772.0
GESARSA	GSR	0.0	0.0	0.0	0.0	0.0	
GREEN POWER	MTL	0.0	0.0	105,363.9	0.0	0.0	123,672.0
HIDRO PANTASMA	HPA1	299.5	4,569.3	44,534.3	108.8	3,180.9	19,770.4
	HPA2				108.8	3,180.9	19,770.4
	TOTAL	299.5	4,569.3	44,534.3	217.6	6,361.7	39,540.8
IHSA	PHD	108.6	1,584.4	15,804.2	0.0	3,129.2	17,264.1
PCA-PCF	PCA1	441.9	1,506.9	76,091.3	478.0	11,637.0	106,528.0
	PCA2	464.3	9,403.6	103,232.5	478.0	11,637.0	106,528.0
	PCA	906.2	10,910.5	179,323.9	956.0	23,274.0	213,056.0
	PCF1	0.0	0.0	0.0	0.0	0.0	0.0
	PCF2	0.0	0.0	0.0	0.0	3,279.4	11,370.8
	PCF	0.0	0.0	0.0	0.0	3,279.4	11,370.8
TOTAL	906.2	10,910.5	179,323.9	956.0	26,553.4	224,426.8	
PENSA	PEN3	607.4	14,359.0	185,736.2	720.0	23,760.0	216,652.0
	PEN4	576.4	13,705.2	164,076.4	720.0	21,600.0	190,678.0
	TOTAL	1,183.7	28,064.3	349,812.5	1,440.0	45,360.0	407,330.0
PHL	PHL1	169.4	3,713.0	36,006.9	161.8	5,054.5	41,138.8
	PHL2	167.7	3,695.3	36,415.9	161.8	5,054.5	41,138.8
	TOTAL	337.2	7,408.3	72,422.8	323.6	10,109.0	82,277.6
AGSA	PMN	1,003.4	18,333.6	180,259.6	1,128.2	27,101.0	181,174.1
PLB-PMG	PLB1	0.0	0.0	0.0	0.0	0.0	0.0
	PLB2	0.0	0.0	0.0	0.0	0.0	0.0
	PLB	0.0	0.0	0.0	0.0	0.0	0.0
	PMG3	0.0	0.0	0.0	0.0	0.0	0.0
	PMG4	65.0	998.8	7,365.8	74.1	1,793.7	8,398.7
	PMG5	55.3	952.1	7,733.0	74.1	2,081.8	10,006.3
	PMG	120.3	1,950.9	15,098.8	148.1	3,875.5	18,405.0
TOTAL	120.3	1,950.9	15,098.8	148.1	3,875.5	18,405.0	
CENSA	CEN	1,024.9	20,704.1	211,373.8	1,001.4	28,577.4	177,038.9
MONTE ROSA	MTR	0.0	0.0	141,780.6	0.0	0.0	135,744.0
NSEL	NSL	0.0	0.0	79,471.9	0.0	0.0	93,863.9
PMT	PMT1	379.0	8,246.0	70,708.0	384.0	13,277.3	120,628.5
	PMT2	0.0	0.0	44,252.0	0.0	0.0	0.0
	PMT3	142.3	2,764.3	32,591.4	134.4	4,002.7	36,024.5
	TOTAL	521.3	11,010.3	147,551.4	518.4	17,280.0	156,653.0
SOLARIS	PSL	13.4	1,046.6	6,407.1	48.0	1,510.4	5,440.3
TPC	TPC	842.7	20,051.0	238,935.2	872.6	32,635.0	279,277.0
TOTAL	10,919.6	206,644.2	2,983,077.9	11,507.1	372,175.3	3,423,948.3	

Resumen de Producción de Energía Neta (MWh) por Tipo del 20/09/2017						
Tipo Recurso	Real			Programado		
	Día	Mes	Año	Día	Mes	Año
BIOMASA	0.0	0.0	326,616.5	0.0	0.0	353,279.9
EOLO	141.9	9,792.5	473,325.2	232.9	29,818.1	620,422.4
GEOTERMICO	1,705.1	39,074.6	497,363.9	1,958.4	62,640.0	563,983.0
HIDROELECTRICO	1,651.4	24,472.4	312,085.2	1,497.2	46,153.3	363,509.3
SOLAR	13.4	1,046.6	6,407.1	48.0	1,510.4	5,440.3
TERMICO BUNKER	7,368.9	131,776.5	1,363,274.2	7,770.5	230,685.8	1,514,262.6
TERMICO DIESEL	38.9	481.6	4,005.8	0.0	1,367.8	3,050.9
TOTAL	10,919.6	206,644.2	2,983,077.9	11,507.1	372,175.3	3,423,948.3

Balance de Energía Neta (MWh) del 20/09/2017			
Energía	Día	Mes	Año
Interconexión Neta	14.9	-112.3	-3,654.4
AMY-L9030	2,115.8	33,286.5	120,126.4
TCPI-L9150	1,685.9	27,572.4	201,451.6
LNI-L9040	-1,100.9	-12,622.2	-64,742.3
SND-L9090	-995.3	-12,026.8	-42,422.1
Generación	10,919.6	188,310.6	2,802,818.2
No Servida	36.5	1,702.3	14,006.5
Demanda Neta	12,661.7	226,222.8	3,031,238.3

Comportamiento de la Demanda (MW) del 20/09/2017			
Potencia Máxima	Día	Mes	Año
Real	665.2	666.9	709.1
Fecha y Hora	20/09/2017 18:00	07/09/2017 19:00	04/04/2017 19:00
Calculada	665.2	672.7	710.4
Fecha y Hora	20/09/2017 18:00	07/09/2017 19:00	04/04/2017 19:00
Programado	666.4	672.9	715.0
Fecha y Hora	20/09/2017 19:00	09/2017	04/2017

Resumen del Mercado Eléctrico Regional (MER) del 20/09/2017			
Agente	Real		
	Día	Mes	Año
Resumen de Ventas (MWh)			
ALBANISA	0.00	0.00	103.43
DISNORTE	0.00	0.00	461.25
DISSUR	0.00	0.00	460.98
TOTAL	0.00	0.00	1,025.66
Resumen de Compras (MWh)			
BLUEFIELDS	103.20	1,990.37	17,058.58
CCN	0.00	40.00	40.00
DISNORTE	560.00	11,717.54	80,025.93
DISSUR	680.00	16,923.69	90,487.48
EEC20	203.50	2,839.74	7,040.11
MULUKUKU	36.00	707.47	6,190.10
SIUNA	108.00	2,103.29	18,251.40
TOTAL	1,690.70	36,322.10	219,093.60



Precio Promedio (US\$/Bbl.)		
Combustible	Día	Año
Bunker	55.0	44.8
Diesel	66.8	60.2

Disponibilidad y Costo Variable Semanal hasta 09/21/2017 07:00			
GGD	Instalada	Real	Costo
	MW		US\$/MWh
ABR	39.6	3.8	0.0
AMY1	39.9	5.1	0.0
AMY2	23.1	2.7	0.0
CEN	57.0	45.0	96.2
EEC	51.4	51.4	95.1
EEC20	18.5	0.0	91.5
EOL	44.0	6.9	0.0
GSR	5.4	0.0	95.6
HPA1	6.5	6.0	73.3
HPA2	6.5	6.0	73.3
MTL	38.0	0.0	44.7
MTR	35.0	0.0	113.2
NSL	30.0	0.0	121.7
PBP	39.6	4.8	0.0
PCA1	25.0	24.0	75.1
PCA2	25.0	24.0	75.1
PCF1	25.0	0.0	0.0
PCF2	25.0	0.0	0.0
PCG1	19.2	19.2	102.8
PCG2	19.2	17.6	102.9
PCG3	19.2	15.2	102.7
PCG4	19.2	19.2	104.8
PCG5	18.6	17.7	105.4
PCG6	12.9	9.4	92.1
PCG7	38.0	27.6	97.3
PCG8	25.3	15.3	95.2
PCG9	45.3	31.0	95.0
PCHN	15.0		
PEN3	36.0	30.0	95.7
PEN4	36.0	30.0	92.9
PHC1	15.0	13.3	140.2
PHC2	45.0	39.5	140.2
PHL1	8.5	8.5	76.8
PHL2	8.5	8.5	76.8
PLB1	23.0	0.0	232.2
PLB2	35.0	0.0	174.7
PMG3	42.0	0.0	126.2
PMG4	5.5	5.2	99.6
PMG5	5.5	5.2	98.2
PMN	75.0	70.0	100.7
PMT1	30.0	16.5	97.8
PMT2	30.0	0.0	97.8
PMT3	7.0	5.6	97.8
PNI1	50.0	50.0	105.8
PNI2	50.0	50.0	109.4
PSL	12.4	4.7	0.0
TPC	50.9	40.7	89.0
TOTAL	1,331.6	729.4	--

Fuera de servicio por resolución del INE
Mantenimiento
Reducción por restricción de Planta
Generación no despachable
Reducción por calidad y seguridad
Fuera de Servicio y Disponible en Standby Frio
Control de AGC
Indisponibilidad o Restricción del Recurso de Generación

Combustible (Miles Gls.) del 20/09/2017								
GGD	Consumo*			Recibido			Inventario	Precio (US\$/Bbl.)**
	Día	Mes	Año	Día	Mes	Año		
BUNKER	335.2	7,959.4	85,661.7	548.1	10,770.1	85,038.1	10,097.0	48.5
CEN	0.0	1,155.7	13,144.2	108.9	1,279.5	12,605.1	785.9	49.1
EEC								55.5
EEC20	0.0	1,052.0	15,644.2	81.6	2,990.8	14,968.9	3,124.0	55.5
GSR	0.0	0.0	0.0	0.0	0.0	0.0	64.6	55.5
PCG1	13.2	165.7	863.2	11.8	182.1	767.0	194.8	48.5
PCG2	10.9	113.3	603.9	5.9	88.0	573.8	211.4	57.4
PCG3	9.8	133.8	846.3	0.0	188.9	808.2	341.2	57.2
PCG4	8.5	82.3	377.2					57.4
PCG5	5.0	35.8	214.7	5.9	123.2	591.0	216.3	57.4
PCG6	17.6	268.2	2,175.4					56.1
PCG7	45.8	774.4	6,216.5	64.6	1,087.5	8,179.7	228.2	56.1
PCG8	19.3	305.2	1,965.0	29.4	340.5	1,941.9	352.2	54.9
PCG9	35.0	552.9	4,397.4	64.6	569.6	4,489.0	208.5	55.9
PCG	165.0	2,431.6	17,659.6	182.1	2,579.8	17,350.6	1,752.6	55.7
PMG3	0.0	0.0	0.0	0.0	0.0	93.1		53.9
PMG4	3.9	61.5	452.0	0.0	0.0	415.4	199.3	54.8
PMG5	3.5	61.1	488.3	0.0	0.0	0.0		54.8
PMG	7.4	122.6	940.3	0.0	0.0	508.5	199.3	54.5
PNI1	54.2	983.2	11,265.8					55.4
PNI2	0.0	0.0	2,384.8	64.0	1,008.2	14,265.2	327.7	55.4
PNI	54.2	983.2	13,650.6	64.0	1,008.2	14,265.2	327.7	55.4
TPC	51.8	1,231.7	14,682.2	0.0	1,326.2	16,069.7	1,243.2	48.5
PMN	56.9	982.6	9,940.7	111.5	1,585.6	9,270.1	2,599.7	61.5
DIESEL	9.6	657.8	3,046.2	22.2	177.8	1,883.4	621.1	66.8
PCG1	0.8	14.4	180.2	0.0	29.6	111.1	37.0	66.8
PCG2	1.0	14.7	136.4	7.4	14.8	89.0	23.0	66.8
PCG3	0.6	12.0	153.5	0.0	7.4	104.1	7.9	66.8
PCG4	0.9	21.0	123.2					66.8
PCG5	0.9	8.2	49.3	7.4	22.2	125.9	25.6	66.8
PCG6	0.0	4.2	155.8					66.8
PCG7	0.0	15.3	291.1	0.0	22.2	400.8	36.7	66.8
PCG8	0.5	15.8	256.7	0.0	14.8	192.8	37.8	66.8
PCG9	1.5	23.7	352.4	0.0	7.4	340.7	38.1	66.8
PCG	6.3	129.3	1,698.6	14.8	118.5	1,364.4	206.2	66.8
PHC2	2.9	35.8	287.3	7.4	29.6	192.6	122.0	66.8
PHC1	0.0	0.0	12.5					66.8
PHC	2.9	35.8	299.7					66.8
PLB1	0.0	0.0	0.0	0.0	0.0	0.0	188.4	66.8
PLB2	0.0	0.0	0.0					66.8
PLB	0.0	0.0	0.0	0.0	0.0	0.0	188.4	66.8
PMG4	0.0	0.0	0.0	0.0	0.0	0.0	3.8	66.8
PMG	0.0	0.0	0.0	0.0	0.0	0.0	3.8	66.8
PMN	0.4	492.6	1,047.9	0.0	29.7	326.4	100.7	66.8

* El Consumo totaliza el consumo por Generación y Calentamiento.

** El Precio incluye el Cargo de Transporte.

Información de Despejes del 21/09/2017			
Agente	Lugar de Trabajo	Desde	Hasta
TPC	Unidad Generadora (Termoeléctrica) PTP 13.8 U3	18/09/2017 06:00	23/09/2017 23:59
PCA-PCF	Unidad Generadora (Hidro) PCF 10.5 U1	20/09/2017 23:59	19/12/2017 23:59
PCA-PCF	Unidad Generadora (Hidro) PCF 10.5 U2	20/09/2017 23:59	04/10/2017 23:59
ENATREL	Línea (Bahía) NG2 69 L605	21/09/2017 08:00	22/09/2017 16:00

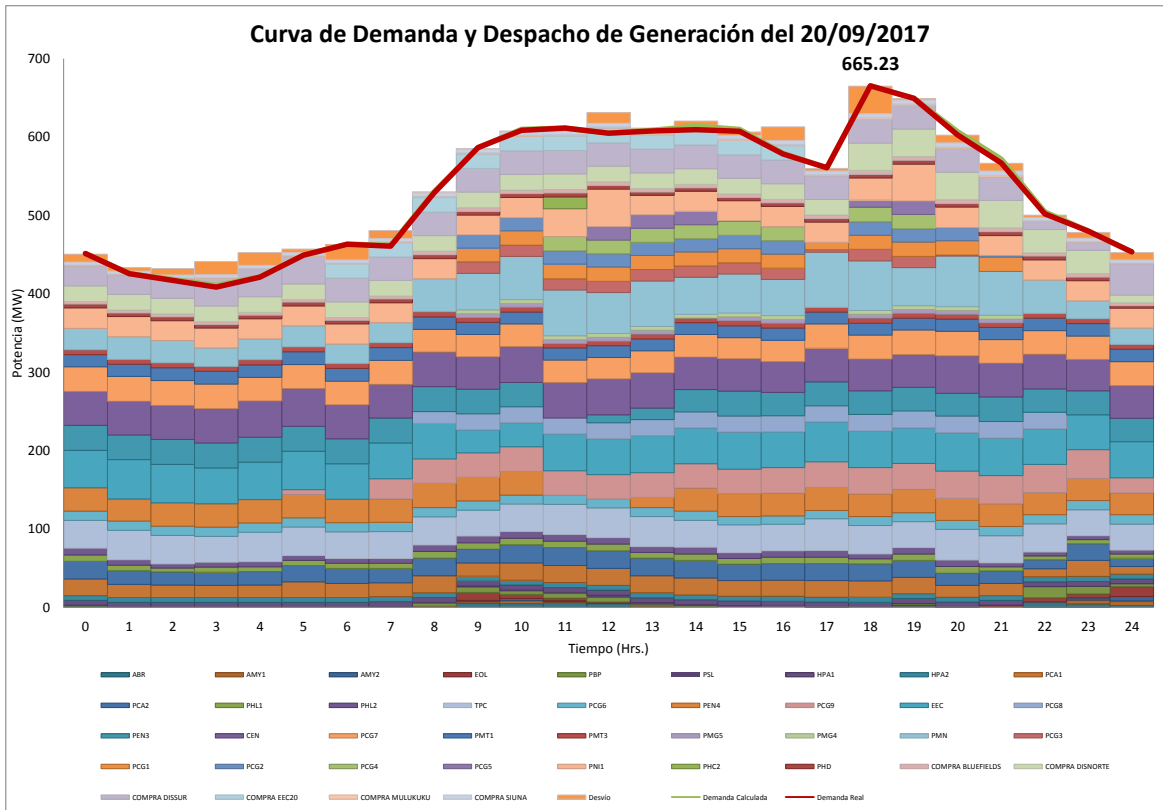
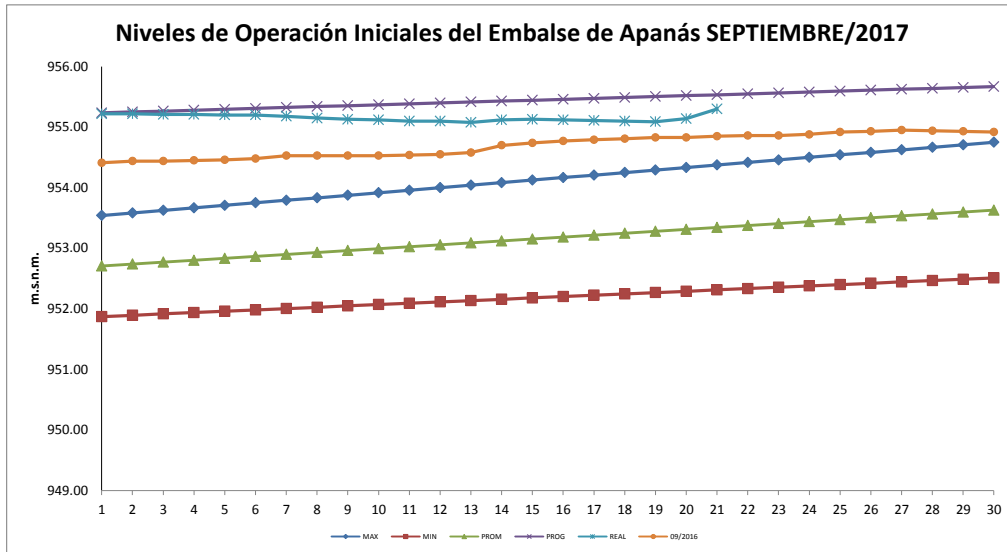
Centro Nacional de Despacho de Carga (CNDC)
Informe de Operación del SIN (Sistema Interconectado Nacional)
Fecha: 20/09/2017

Balance Hidrológico						
20/09/2017						
Embalse	APANAS	ASTURIAS	LA VIRGEN	PANTASMA	LARREYNAGA	UNIDAD
Generación Programada	956.000	N/A	0.000	217.600	323.630	MWh
Generación Real	906.200		0.000	299.500	337.150	MWh
Consumo de Agua	1.500	0.650	0.000	0.320	1.570	MMC
Volumen no Turbinado	0.000	N/A				MMC
Nivel Programado	955.520	N/A				m.s.n.m
Nivel Inicial	955.140	926.420	439.890	844.710	682.150	m.s.n.m
Volumen Inicial	369.980	4.020	24.200	1.350	0.140	MMC
Aporte Natural	9.250	1.080	2.480	2.350	1.570	MMC
Extracción	0.000	0.000	0.000	0.000	0.000	MMC
Aporte Bombeo	0.650	N/A				MMC
Aporte Total	9.900	1.080	3.980	2.350	1.570	MMC
Nivel Final	955.300	926.600	439.660	844.560	682.100	m.s.n.m
Volumen Final	377.720	4.450	22.610	1.300	0.140	MMC
Derrame	0.000	0.000	5.580	2.070	0.000	MMC
sep-17						
Generación Programada	11,147.200	N/A	0.000	3,877.830	4,264.890	MWh
Generación Real	10,910.500		0.000	4,569.260	7,408.270	MWh
Consumo de Agua	18.110	7.530	0.000	4.580	34.520	MMC
Volumen no Turbinado	14.610	N/A				MMC
Aporte Natural	23.250	3.690	6.360	7.170	34.540	MMC
Extracción	-1.270	0.000	0.000	-0.170	0.000	MMC
Aporte Bombeo	7.530	N/A				MMC
Aporte Total	29.510	3.690	24.470	7.000	34.540	MMC
Derrame	0.000	0.530	25.790	2.100	0.000	MMC
2017						
Generación Programada	199,653.770	N/A	0.000	35,656.590	66,380.610	MWh
Generación Real	179,323.870		0.000	44,534.340	72,422.810	MWh
Consumo de Agua	296.420	41.400	0.000	47.310	335.190	MMC
Volumen no Turbinado	25.300	N/A				MMC
Aporte Natural	290.690	39.670	0.000	54.430	336.510	MMC
Extracción	-12.760	-0.010	-181.140	-1.780	-0.060	MMC
Aporte Bombeo	41.400	N/A				MMC
Aporte Total	319.340	39.670	115.280	52.650	336.450	MMC
Derrame	0.000	0.530	116.160	4.400	1.370	MMC

*MMC = Millones de Metros Cúbico = 1,000,000 m3

N/A (No Aplica)

Niveles de Operación Iniciales de APANAS (m.s.n.m)						
09/2017						09/2016
Día	MAX	MIN	PROM	PROG	REAL	HISTORICO
1	953.542	951.872	952.707	955.235	955.220	954.410
2	953.583	951.894	952.739	955.250	955.220	954.440
3	953.625	951.916	952.771	955.265	955.210	954.440
4	953.667	951.938	952.802	955.280	955.210	954.450
5	953.708	951.960	952.834	955.295	955.200	954.460
6	953.750	951.982	952.866	955.310	955.200	954.480
7	953.792	952.004	952.898	955.325	955.180	954.530
8	953.833	952.026	952.930	955.340	955.150	954.530
9	953.875	952.048	952.962	955.355	955.130	954.530
10	953.917	952.070	952.993	955.370	955.120	954.530
11	953.958	952.092	953.025	955.385	955.100	954.540
12	954.000	952.114	953.057	955.400	955.100	954.550
13	954.042	952.136	953.089	955.415	955.080	954.580
14	954.083	952.158	953.121	955.430	955.120	954.700
15	954.125	952.180	953.153	955.445	955.130	954.740
16	954.167	952.202	953.184	955.460	955.120	954.770
17	954.208	952.224	953.216	955.475	955.110	954.790
18	954.250	952.246	953.248	955.490	955.100	954.810
19	954.292	952.268	953.280	955.505	955.090	954.830
20	954.333	952.290	953.312	955.520	955.140	954.830
21	954.375	952.312	953.344	955.535	955.300	954.850
22	954.417	952.334	953.375	955.550		954.860
23	954.458	952.356	953.407	955.565		954.860
24	954.500	952.378	953.439	955.580		954.880
25	954.542	952.400	953.471	955.595		954.920
26	954.583	952.422	953.503	955.610		954.930
27	954.625	952.444	953.535	955.625		954.950
28	954.667	952.466	953.566	955.640		954.940
29	954.708	952.488	953.598	955.655		954.930
30	954.750	952.510	953.630	955.670		954.920



Hora	Notas
18:00	Demanda Máxima 665.23 MW.
21:00	PNS (Potencia No Suministrada): 4.70 MW. Causa Desconocida.