

Centro Nacional de Despacho de Carga (CNDC)
Informe de Operación del SIN (Sistema Interconectado Nacional)
 Fecha: 22/03/2018

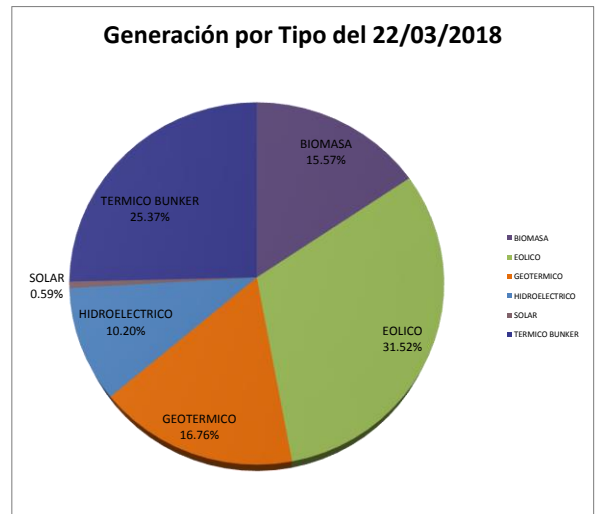
Resumen de Producción de Energía Neta (MWh) del 22/03/2018							
Agente	GGD	Real			Programado		
		Día	Mes	Año	Día	Mes	Año
ALBANISA	PCG1	0.0	201.2	453.0	0.0	243.0	762.4
	PCG2	0.0	17.0	114.2	0.0	363.5	610.8
	PCG3	0.0	74.7	306.0	0.0	1,332.7	2,871.4
	PCG4	0.0	0.0	57.6	0.0	0.0	91.9
	PCG5	0.0	0.0	37.1	0.0	0.0	90.0
	PCG6	92.1	1,959.2	7,023.2	101.8	2,077.2	9,402.5
	PCG7	288.4	7,203.8	22,310.9	361.1	7,314.2	23,654.1
	PCG8	39.1	985.2	2,402.6	28.8	2,646.6	9,020.5
	PCG9	92.7	4,037.0	10,354.1	76.4	8,091.5	21,098.7
	PCG	512.3	14,478.1	43,058.7	568.0	22,068.7	67,602.3
	PHC1	0.0	0.0	0.0	0.0	0.0	0.0
	PHC2	0.0	157.8	255.7	0.0	0.0	0.0
	PHC	0.0	157.8	255.7	0.0	0.0	0.0
	ABR	686.0	13,843.8	48,286.5	817.2	20,831.0	58,820.0
	TOTAL	1,198.3	28,479.7	91,601.0	1,385.2	42,899.7	126,422.3
AMAYO 1	AMY1	920.0	14,533.8	57,078.8	896.5	21,014.0	62,357.0
AMAYO 2	AMY2	485.4	8,770.9	34,106.7	477.1	11,765.0	34,909.0
BLUE POWER	PBP	880.7	14,866.2	59,196.4	840.0	19,908.0	55,346.0
EOLO	EOL	1,043.1	18,286.6	71,778.3	1,008.1	25,236.0	73,490.0
EEC	EEC	683.0	18,336.1	54,327.8	766.0	17,660.0	53,253.6
	EEC20				117.3	7,994.5	15,110.7
	TOTAL	683.0	18,336.1	54,327.8	883.3	25,654.5	68,364.3
GEOSA	PN1	628.7	13,750.5	50,638.7	603.0	18,600.0	54,000.0
	PN2	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL	628.7	13,750.5	50,638.7	603.0	18,600.0	54,000.0
GESARSA	GSR	0.0	0.0	0.0	0.0	0.0	
GREEN POWER	MTL	624.2	13,885.6	50,833.9	570.0	12,835.0	42,919.0
HIDRO PANTASMA	HPA1	59.8	1,904.9	12,617.1	0.0	630.7	4,049.3
	HPA2				64.8	630.7	4,049.3
	TOTAL	59.8	1,904.9	12,617.1	64.8	1,261.4	8,098.6
IHSA	PHD	29.0	1,338.6	5,707.5	0.0	1,037.4	3,553.9
	PCA1	0.0	2,948.6	24,208.9	0.0	8,928.0	34,488.5
	PCA2	347.2	4,361.5	26,712.4	456.0	8,928.0	34,488.5
PCA-PCF	PCA	347.2	7,310.1	50,921.3	456.0	17,856.0	68,977.0
	PCF1	86.8	1,898.5	5,252.3	54.0	9,715.5	9,715.5
	PCF2	425.9	3,523.7	5,817.5	378.0	9,715.5	9,715.5
	PCF	512.7	5,422.2	11,069.9	432.0	19,431.0	19,431.0
	TOTAL	859.9	12,732.3	61,991.2	888.0	37,287.0	88,408.0
PENSA	PEN3	798.6	18,347.6	47,992.6	840.0	23,808.0	55,680.1
	PEN4	667.4	14,919.8	55,248.9	648.0	23,808.0	69,792.0
	TOTAL	1,466.0	33,267.5	103,241.5	1,488.0	47,616.0	125,472.1
PHL	PHL1	176.0	3,789.1	11,974.2	150.0	6,193.5	15,681.3
	PHL2	174.9	1,955.2	10,062.1	150.0	6,193.5	15,681.3
	TOTAL	350.9	5,744.3	22,036.3	300.0	12,387.0	31,362.6
AGSA	PMN	604.8	19,073.9	54,110.0	820.9	22,320.0	64,800.0
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	4.5	115.8	251.8	0.0	166.6	960.4
	PMG5	4.5	116.2	263.3	9.5	394.8	1,769.6
	PMG	9.0	232.0	515.0	9.5	561.5	2,730.0
TOTAL	9.0	232.0	515.0	9.5	561.5	2,730.0	
CENSA	CEN	129.0	3,161.5	8,918.0	126.0	12,641.0	35,631.0
MONTE ROSA	MTR	675.1	14,463.7	55,487.6	638.4	20,088.0	58,320.0
NSEL	NSL	683.7	14,613.4	54,016.3	592.8	22,320.0	64,800.0
PMT	PMT1	530.0	10,052.0	15,783.0	408.0	13,853.3	39,831.8
	PMT2	0.0	0.0	21,350.0	0.0	0.0	0.0
	PMT3	138.8	2,989.4	9,494.2	134.4	4,002.7	12,008.2
	TOTAL	668.8	13,041.4	46,627.2	542.4	17,856.0	51,840.0
SOLARIS	PSL	75.4	1,126.1	4,940.0	70.2	3,334.8	8,780.3
TPC	TPC	664.9	16,704.4	59,291.3	996.8	21,247.0	61,912.0
TOTAL	12,739.6	268,313.3	959,060.7	13,201.0	397,869.3	1,123,516.0	

Resumen de Producción de Energía Neta (MWh) por Tipo del 22/03/2018						
Tipo Recurso	Real			Programado		
	Día	Mes	Año	Día	Mes	Año
BIOMASA	1,983.0	42,962.7	160,337.8	1,801.2	55,243.0	166,039.0
EOLICO	4,015.1	70,301.3	270,446.7	4,038.9	98,754.0	284,922.0
GEOTERMICO	2,134.8	46,308.9	149,868.7	2,030.4	65,472.0	177,312.1
HIDROELECTRICO	1,299.6	21,720.1	102,352.1	1,252.8	51,972.8	131,423.1
SOLAR	75.4	1,126.1	4,940.0	70.2	3,334.8	8,780.3
TERMICO BUNKER	3,231.8	85,736.5	270,859.5	4,007.5	123,092.7	355,039.5
TERMICO DIESEL	0.0	157.8	255.7	0.0	0.0	0.0
TOTAL	12,739.6	268,313.3	959,060.7	13,201.0	397,869.3	1,123,516.0

Balance de Energía Neta (MWh) del 22/03/2018			
Energía	Día	Mes	Año
Interconexión Neta	-47.9	-308.0	-453.1
AMY-L9030	-285.3	-2,663.7	8,159.1
TCPI-L9150	807.6	13,854.8	76,783.7
LNI-L9040	307.2	3,497.5	-14,814.6
SND-L9090	144.0	2,000.6	-21,200.2
Generación	12,739.6	249,239.4	904,950.7
No Servida	9.4	335.7	1,722.2
Demanda Neta	13,722.5	266,264.3	955,601.0

Comportamiento de la Demanda (MW) del 22/03/2018			
Potencia Máxima	Día	Mes	Año
Real	698.7	714.1	714.1
Fecha y Hora	22/03/2018 19:00	13/03/2018 19:00	13/03/2018 19:00
Calculada	698.7	714.1	714.1
Fecha y Hora	22/03/2018 19:00	13/03/2018 19:00	13/03/2018 19:00
Programado	715.5	733.9	733.9
Fecha y Hora	22/03/2018 19:00	03/2018	03/2018

Resumen del Mercado Eléctrico Regional (MER) del 22/03/2018			
Agente	Real		
	Día	Mes	Año
Resumen de Ventas (MWh)			
TOTAL	0.00	0.00	0.00
Resumen de Compras (MWh)			
BLUEFIELDS	63.93	1,793.89	6,792.86
CCN	46.23	660.38	1,468.70
DISNORTE	352.67	4,884.52	13,287.31
DISSUR	468.83	7,158.49	17,309.88
EEC20	0.00	0.00	462.13
MULUKUKU	23.32	684.80	2,611.34
SIUNA	66.33	1,810.28	6,806.95
ZFLP	0.00	4.89	641.94
TOTAL	1,021.31	16,997.25	49,381.11



Precio Promedio (US\$/Bbl.)		
Combustible	Día	Año
Bunker	60.7	55.2
Diesel	71.9	76.1

Disponibilidad y Costo Variable Semanal hasta 03/23/2018 07:00			
GGD	Instalada	Real	Costo
	MW		US\$/MWh
ABR	39.6	0.0	0.0
AMY1	39.9	38.4	0.0
AMY2	23.1	22.2	0.0
CEN	57.0	51.0	104.9
EEC	51.4	51.4	103.5
EEC20	18.5	18.5	98.7
EOL	44.0	43.5	0.0
GSR	5.4	0.0	103.3
HPA1	7.2	0.0	104.7
HPA2	7.2	0.0	104.7
MTL	38.0	25.0	118.5
MTR	35.0	28.0	112.1
NSL	30.0	26.0	125.4
PBP	39.6	36.0	0.0
PCA1	25.0	0.0	95.8
PCA2	25.0	25.0	95.8
PCF1	25.0	0.0	98.7
PCF2	25.0	21.7	98.7
PCG1	19.2	19.2	111.6
PCG2	19.2	19.2	112.0
PCG3	19.2	18.6	111.2
PCG4	19.2	19.2	113.8
PCG5	18.6	16.2	114.4
PCG6	12.9	9.2	100.4
PCG7	38.0	28.6	105.9
PCG8	25.3	22.2	104.0
PCG9	45.3	37.2	103.5
PCHN	15.0		
PEN3	36.0	35.0	98.6
PEN4	36.0	27.0	95.7
PHC1	15.0	13.3	148.7
PHC2	45.0	39.5	148.7
PHL1	8.5	8.5	95.5
PHL2	8.5	8.5	95.5
PLB1	23.0	0.0	245.4
PLB2	35.0	0.0	184.7
PMG3	42.0	0.0	137.7
PMG4	5.5	5.2	107.7
PMG5	5.5	5.2	106.2
PMN	75.0	70.0	108.2
PMT1	30.0	20.0	100.7
PMT2	30.0	0.0	100.7
PMT3	7.0	5.6	100.7
PN1	50.0	50.0	115.6
PN2	50.0	50.0	119.6
PSL	12.4	3.6	0.0
TPC	50.9	50.9	97.2
TOTAL	1,333.0	968.5	--

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 22/03/2018								
GGD	Consumo*			Recibido			Inventario	Precio (US\$/Bbl.)**
	Día	Mes	Año	Día	Mes	Año		
BUNKER	204.8	5,243.1	17,062.9	336.2	8,688.8	20,174.7	9,775.3	53.7
CEN	8.7	213.1	612.0	7.8	77.5	604.5	920.0	54.3
EEC								60.7
EEC20	41.6	1,012.1	3,246.8	0.0	775.8	2,197.2	1,942.1	60.7
GSR	0.0	0.0	0.0	0.0	4.1	4.1	64.6	60.8
PCG1	0.0	8.8	21.0	0.0	0.0	11.6	224.2	63.0
PCG2	0.0	0.2	5.0	0.0	0.0	0.0	223.2	63.3
PCG3	0.0	1.7	13.6	0.0	76.6	76.6	381.0	62.7
PCG4	0.0	0.0	2.5					63.3
PCG5	0.0	0.0	1.4	0.0	0.0	0.0	227.5	63.3
PCG6	5.3	118.3	418.2					61.7
PCG7	17.3	425.1	1,331.4	47.0	487.8	1,722.9	585.9	61.7
PCG8	1.5	46.0	120.1	0.0	0.0	116.2	389.5	60.9
PCG9	4.7	229.4	547.9	52.8	252.6	508.7	420.6	61.5
PCG	28.8	829.6	2,461.0	99.8	816.9	2,435.9	2,452.0	62.4
PMG3	0.0	0.0	0.0	0.0	0.0	0.0		59.1
PMG4	0.3	7.4	15.7	0.0	0.0	0.0	430.4	60.0
PMG5	0.3	7.6	17.0	0.0	0.0	0.0		60.0
PMG	0.6	15.0	32.7	0.0	0.0	0.0	430.4	59.7
PN1	49.6	1,083.9	3,991.5					60.6
PN2	0.0	0.0	0.0	170.0	1,585.7	4,540.1	1,105.6	60.6
PN1	49.6	1,083.9	3,991.5	170.0	1,585.7	4,540.1	1,105.6	60.6
TPC	40.8	1,026.1	3,642.2	0.0	1,199.6	3,480.1	512.4	53.7
PMN	34.6	1,063.3	3,076.8	58.7	4,229.2	6,912.8	2,348.1	62.7
DIESEL	5.7	126.3	399.2	22.2	111.1	391.2	394.4	71.9
PCG1	0.0	4.5	9.0	0.0	0.0	14.8	34.8	71.9
PCG2	0.0	1.1	3.5	0.0	0.0	0.0	23.6	71.9
PCG3	0.0	4.1	7.7	0.0	0.0	0.0	8.5	71.9
PCG4	0.0	0.1	1.8					71.9
PCG5	0.0	0.1	1.6	0.0	0.0	7.4	26.9	71.9
PCG6	0.7	8.6	37.4					71.9
PCG7	1.5	29.2	120.2					71.9
PCG8	1.1	17.7	36.4	0.0	0.0	14.8	9.1	71.9
PCG9	1.8	31.5	106.9	7.4	37.1	103.8	35.7	71.9
PCG	5.2	96.9	324.5	7.4	66.7	281.8	168.4	71.9
PHC2	0.0	12.0	27.7	14.8	14.8	14.8	114.5	71.9
PHC1	0.0	0.0	0.1					71.9
PHC	0.0	12.0	27.8	0.0	0.0	0.0	34.5	71.9
PLB1	0.0	0.0	0.0					71.9
PLB2	0.0	0.0	0.0					71.9
PLB	0.0	0.0	0.0	0.0	0.0	0.0	34.5	71.9
PMG4	0.0	0.0	0.0	0.0	0.0	0.0	3.8	71.9
PMG	0.0	0.0	0.0	0.0	0.0	0.0	3.8	71.9
PMN	0.6	17.4	47.0	0.0	29.6	94.6	73.1	71.9

* El Consumo totaliza el consumo por Generación y Calentamiento.

** El Precio incluye el Cargo de Transporte.

Información de Despejes del 23/03/2018			
Agente	Lugar de Trabajo	Desde	Hasta
HIDROPANTASMA	Unidad Generadora (Hidro) HPA 13.8 U1	07/03/2018 07:00	05/05/2018 08:00
PCA-PCF	Unidad Generadora (Hidro) PCF 10.5 U1	22/03/2018 06:00	27/03/2018 06:00
ENATREL	Línea L8160	23/03/2018 08:00	23/03/2018 17:00
TPC	Unidad Generadora (Termoeléctrica) PTP 13.8 U1	23/03/2018 22:10	23/03/2018 22:50
TPC	Unidad Generadora (Termoeléctrica) PTP 13.8 U2	23/03/2018 23:10	23/03/2018 23:50

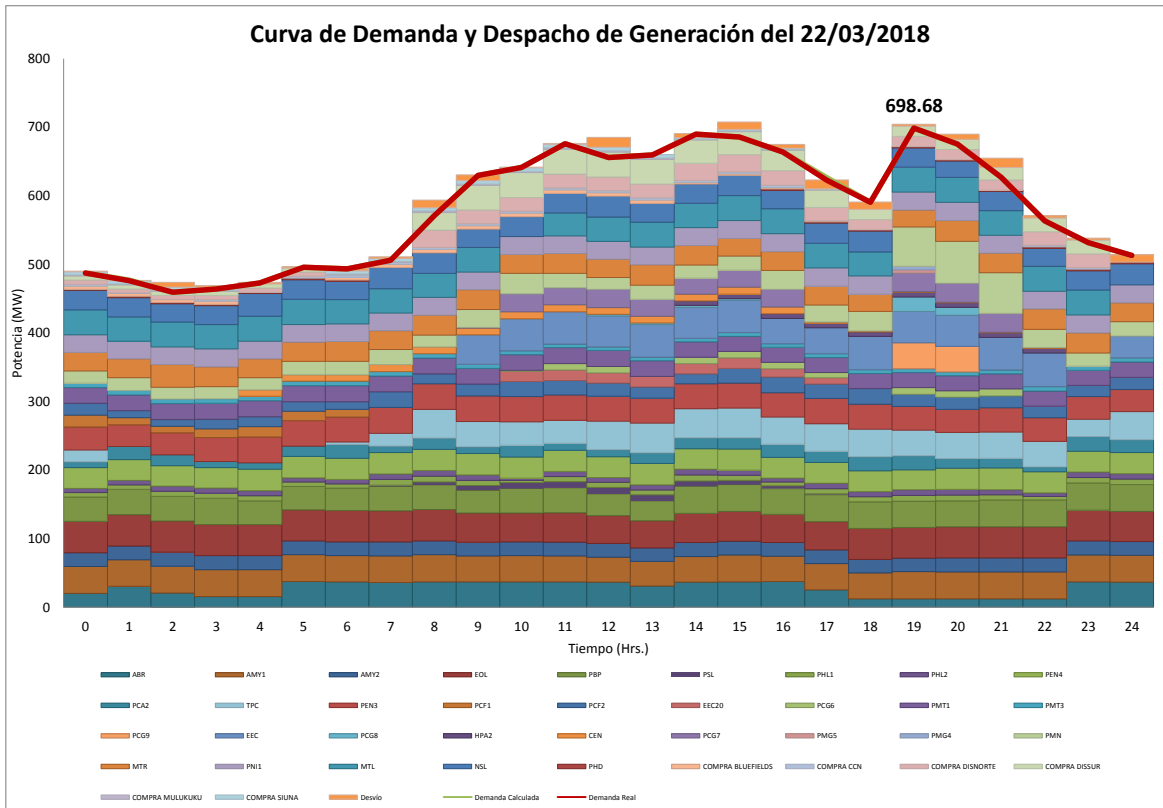
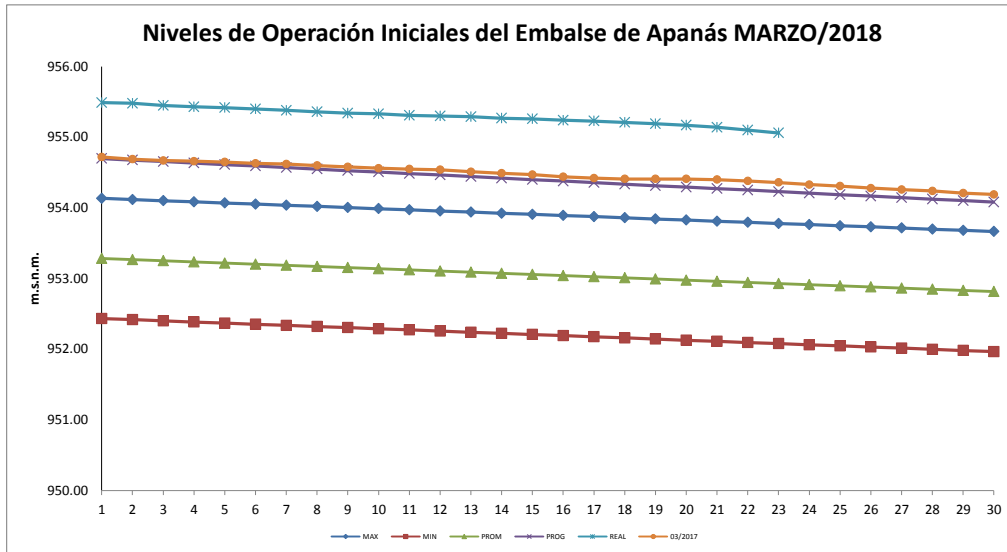
Centro Nacional de Despacho de Carga (CNDC)
Informe de Operación del SIN (Sistema Interconectado Nacional)
Fecha: 22/03/2018

Balance Hidrológico						
22/03/2018						
Embalse	APANAS	ASTURIAS	LA VIRGEN	PANTASMA	LARREYNAGA	UNIDAD
Generación Programada	456.000	N/A	432.000	64.830	300.000	MWh
Generación Real	347.160		512.730	59.820	350.890	MWh
Consumo de Agua	0.580	0.000	1.070	0.060	1.640	MMC
Volumen no Turbinado	0.900	N/A				MMC
Nivel Programado	954.252	N/A				m.s.n.m
Nivel Inicial	955.100	926.360	439.820	841.660	681.770	m.s.n.m
Volumen Inicial	368.040	3.880	23.710	0.250	0.130	MMC
Aporte Natural	0.000	0.050	0.210	0.080	1.640	MMC
Extracción	-1.360	0.000	0.000	0.000	0.000	MMC
Aporte Bombeo	0.000	N/A				MMC
Aporte Total	-1.360	0.050	0.790	0.080	1.640	MMC
Nivel Final	955.100	926.360	439.820	841.660	681.770	m.s.n.m
Volumen Final	365.200	3.920	23.430	0.270	0.130	MMC
Derrame	0.000	0.000	0.000	0.000	0.000	MMC
mar-18						
Generación Programada	9,081.160	N/A	5,743.460	1,691.380	5,197.950	MWh
Generación Real	7,310.100		5,422.160	1,904.900	5,744.310	MWh
Consumo de Agua	12.130	3.040	11.260	2.040	26.770	MMC
Volumen no Turbinado	13.100	N/A				MMC
Aporte Natural	2.910	1.680	0.000	2.040	26.770	MMC
Extracción	-11.580	-0.170	-0.520	0.000	0.000	MMC
Aporte Bombeo	3.040	N/A				MMC
Aporte Total	-5.640	1.510	11.620	2.040	26.770	MMC
Derrame	0.000	0.000	0.510	0.000	0.000	MMC
2018						
Generación Programada	60,141.160	N/A	13,803.460	9,058.030	22,017.900	MWh
Generación Real	50,921.320		11,069.850	12,617.100	22,036.330	MWh
Consumo de Agua	84.490	15.950	22.550	13.490	101.310	MMC
Volumen no Turbinado	13.100	N/A				MMC
Aporte Natural	39.160	11.390	0.000	13.650	101.300	MMC
Extracción	-13.010	-0.240	-47.420	-0.530	0.000	MMC
Aporte Bombeo	15.950	N/A				MMC
Aporte Total	42.100	11.150	37.070	13.120	101.300	MMC
Derrame	0.000	0.000	16.100	0.580	0.000	MMC

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

N/A (No Aplica)

Niveles de Operación Iniciales de APANAS (m.s.n.m)						
03/2018						03/2017
Día	MAX	MIN	PROM	PROG	REAL	HISTORICO
1	954.134	952.434	953.284	954.699	955.490	954.720
2	954.118	952.418	953.268	954.677	955.480	954.690
3	954.102	952.402	953.252	954.656	955.450	954.670
4	954.085	952.385	953.235	954.635	955.430	954.660
5	954.069	952.369	953.219	954.614	955.420	954.650
6	954.053	952.353	953.203	954.592	955.400	954.630
7	954.037	952.337	953.187	954.571	955.380	954.620
8	954.021	952.321	953.171	954.550	955.360	954.600
9	954.005	952.305	953.155	954.528	955.340	954.580
10	953.989	952.289	953.139	954.507	955.330	954.560
11	953.973	952.273	953.123	954.486	955.310	954.550
12	953.956	952.256	953.106	954.465	955.300	954.540
13	953.940	952.240	953.090	954.443	955.290	954.510
14	953.924	952.224	953.074	954.422	955.270	954.490
15	953.908	952.208	953.058	954.401	955.260	954.470
16	953.892	952.192	953.042	954.379	955.240	954.440
17	953.876	952.176	953.026	954.358	955.230	954.420
18	953.860	952.160	953.010	954.337	955.210	954.410
19	953.844	952.144	952.994	954.315	955.190	954.410
20	953.827	952.127	952.977	954.294	955.170	954.410
21	953.811	952.111	952.961	954.273	955.140	954.400
22	953.795	952.095	952.945	954.252	955.100	954.380
23	953.779	952.079	952.929	954.230	955.060	954.360
24	953.763	952.063	952.913	954.209		954.330
25	953.747	952.047	952.897	954.188		954.310
26	953.731	952.031	952.881	954.166		954.280
27	953.715	952.015	952.865	954.145		954.260
28	953.698	951.998	952.848	954.124		954.240
29	953.682	951.982	952.832	954.103		954.210
30	953.666	951.966	952.816	954.081		954.190
31	953.65	951.95	952.80	954.06		954.16



Hora	Notas
19:00	Demanda Máxima 698.68 MW.
17:00	PNS (Potencia No Suministrada): 4 MW. Conductor mal tensado.