

Centro Nacional de Despacho de Carga (CNDC)
Informe de Operación del SIN (Sistema Interconectado Nacional)
 Fecha: 16/11/2017

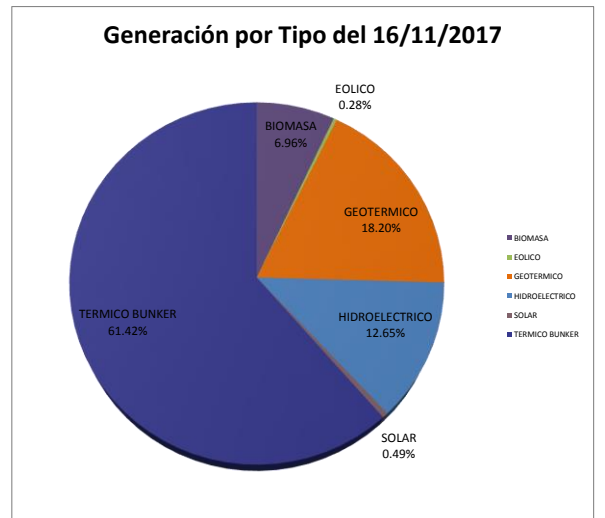
Resumen de Producción de Energía Neta (MWh) del 16/11/2017							
Agente	GGD	Real			Programado		
		Día	Mes	Año	Día	Mes	Año
ALBANISA	PCG1	53.0	1,510.9	19,686.8	96.8	2,275.8	24,560.9
	PCG2	44.9	948.4	13,694.0	54.7	2,476.3	24,055.4
	PCG3	141.8	1,317.3	17,807.9	171.2	3,430.4	32,916.2
	PCG4	33.3	541.2	8,742.7	54.7	841.3	10,574.4
	PCG5	14.8	449.0	5,178.1	33.6	184.3	9,409.5
	PCG6	215.8	3,225.2	47,694.2	207.6	4,070.0	49,176.6
	PCG7	739.3	10,832.8	135,693.2	685.4	12,942.0	142,138.2
	PCG8	230.6	3,330.5	42,773.3	258.7	6,841.9	64,208.8
	PCG9	717.4	9,022.6	100,651.1	710.2	10,898.0	128,792.0
	PCG	2,190.9	31,177.9	391,921.4	2,272.8	43,960.0	485,832.0
	PHC1	0.0	0.0	182.0	0.0	0.0	908.5
	PHC2	0.0	210.0	4,421.4	0.0	0.5	4,409.1
	PHC	0.0	210.0	4,603.4	0.0	0.5	5,317.6
	ABR	7.1	2,422.6	91,223.0	2.9	9,846.2	132,548.7
	TOTAL	2,198.0	33,810.5	487,747.8	2,275.7	53,806.7	623,698.2
AMAYO 1	AMY1	1.2	2,842.9	103,449.7	15.8	9,783.7	144,439.5
AMAYO 2	AMY2	1.5	1,902.3	68,265.2	10.9	6,329.1	85,743.0
BLUE POWER	PBP	11.0	2,267.4	105,761.1	17.1	9,561.2	146,209.0
EOLO	EOL	10.7	3,875.5	140,255.9	42.1	13,574.0	181,054.5
EEC	EEC				1,126.1	24,032.0	303,629.0
	EEC20	1,326.3	20,191.3	320,291.1	389.4	10,220.0	75,025.0
	TOTAL	1,326.3	20,191.3	320,291.1	1,515.5	34,252.0	378,654.0
GEOSA	PN1	628.7	10,352.9	179,247.6	657.5	11,737.0	182,784.0
	PN2	0.0	0.0	29,254.6	0.0	6,552.8	48,266.8
	TOTAL	628.7	10,352.9	208,502.2	657.5	18,289.8	231,050.8
GESARSA	GSR	0.0	0.0	0.0	0.0	0.0	
GREEN POWER	MTL	0.0	170.2	105,534.1	0.0	10,800.0	134,472.0
HIDRO PANTASMA	HPA1	157.2	3,573.6	60,277.7	141.4	2,291.2	25,981.5
	HPA2				0.0	2,291.2	25,981.5
	TOTAL	157.2	3,573.6	60,277.7	141.4	4,582.3	51,962.9
IHSA	PHD	85.1	1,507.6	21,387.1	0.0	2,607.5	23,130.0
	PCA1	428.0	6,867.5	100,163.8	480.0	14,612.0	136,534.0
	PCA2	449.8	7,171.3	128,600.2	480.0	14,612.0	136,534.0
PCA-PCF	PCA	877.7	14,038.9	228,764.1	960.0	29,224.0	273,068.0
	PCF1	0.0	0.0	0.0	0.0	0.0	0.0
	PCF2	0.0	0.0	0.0	0.0	0.0	11,370.8
	PCF	0.0	0.0	0.0	0.0	0.0	11,370.8
	TOTAL	877.7	14,038.9	228,764.1	960.0	29,224.0	284,438.8
	PENSA	PEN3	712.7	11,310.1	226,319.6	720.0	25,920.0
PEN4		668.9	10,520.6	202,585.2	720.0	23,040.0	236,782.0
TOTAL		1,381.6	21,830.7	428,904.8	1,440.0	48,960.0	504,650.0
PHL	PHL1	93.0	2,560.0	45,167.4	107.2	5,662.0	53,036.3
	PHL2	187.4	2,622.4	45,676.1	189.9	5,662.0	53,036.3
	TOTAL	280.4	5,182.4	90,843.4	297.1	11,324.0	106,072.6
AGSA	PMN	850.8	13,205.5	225,045.4	1,099.4	19,583.0	228,761.1
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	40.9	720.8	9,447.3	69.2	1,135.7	10,768.1
	PMG5	0.0	582.3	9,206.0	69.2	1,331.1	13,479.7
	PMG	40.9	1,303.1	18,653.3	138.3	2,466.8	24,247.8
TOTAL	40.9	1,303.1	18,653.3	138.3	2,466.8	24,247.8	
CENSA	CEN	729.1	11,436.3	256,290.7	775.3	18,760.0	222,755.9
MONTE ROSA	MTR	387.3	921.3	142,863.8	228.0	11,520.0	147,264.0
NSEL	NSL	383.6	2,918.0	82,389.9	296.4	9,360.0	103,223.9
PMT	PMT1	489.0	8,761.0	100,599.0	528.0	13,277.3	147,759.1
	PMT2	0.0	0.0	44,252.0	0.0	0.0	0.0
	PMT3	144.8	2,226.5	40,586.9	134.4	4,002.7	44,029.9
	TOTAL	633.8	10,987.5	185,437.9	662.4	17,280.0	191,789.0
SOLARIS	PSL	54.0	942.6	9,071.8	62.2	2,206.3	9,161.9
TPC	TPC	1,033.9	14,420.3	293,609.4	1,114.6	28,739.0	343,836.0
TOTAL	11,072.8	177,680.8	3583,346.5	11,749.6	363,009.4	4166,614.8	

Resumen de Producción de Energía Neta (MWh) por Tipo del 16/11/2017						
Tipo Recurso	Real			Programado		
	Día	Mes	Año	Día	Mes	Año
BIOMASA	770.9	4,009.4	330,787.8	524.4	31,680.0	384,959.9
EOLICO	31.5	13,310.8	508,955.0	88.6	49,094.2	689,994.7
GEOTERMICO	2,015.4	32,818.1	614,342.8	2,102.4	66,240.0	696,439.0
HIDROELECTRICO	1,400.4	24,302.5	401,272.4	1,398.6	47,737.8	465,604.3
SOLAR	54.0	942.6	9,071.8	62.2	2,206.3	9,161.9
TERMICO BUNKER	6,800.6	102,087.4	1714,313.5	7,573.4	166,050.6	1915,137.6
TERMICO DIESEL	0.0	210.0	4,603.4	0.0	0.5	5,317.6
TOTAL	11,072.8	177,680.8	3583,346.5	11,749.6	363,009.4	4166,614.8

Balance de Energía Neta (MWh) del 16/11/2017			
Energía	Día	Mes	Año
Interconexión Neta	-7.9	-24.2	-3,962.9
AMY-L9030	908.2	15,276.2	192,220.9
TCPI-L9150	563.3	13,222.1	262,177.1
LNI-L9040	-78.1	-5,303.5	-93,076.2
SND-L9090	122.9	-3,428.7	-65,037.5
Generación	11,072.8	164,475.3	3358,301.1
No Servida	8.1	327.5	16,627.1
Demanda Neta	12,597.3	184,569.0	3671,212.5

Comportamiento de la Demanda (MW) del 16/11/2017			
Potencia Máxima	Día	Mes	Año
Real	655.8	677.2	709.1
Fecha y Hora	16/11/2017 18:00	07/11/2017 18:00	04/04/2017 19:00
Calculada	657.3	679.0	710.4
Fecha y Hora	16/11/2017 18:00	07/11/2017 18:00	04/04/2017 19:00
Programado	680.3	685.3	715.0
Fecha y Hora	16/11/2017 18:00	11/2017	04/2017

Resumen del Mercado Eléctrico Regional (MER) del 16/11/2017			
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	79.92	1,461.64	22,478.21
CCN	18.00	193.89	456.56
DISNORTE	742.29	6,605.70	110,168.61
DISSUR	571.11	9,447.71	124,877.40
EEC20	0.00	0.00	11,199.19
MULUKUKU	33.19	617.82	8,302.44
SIUNA	79.77	1,463.58	23,770.55
ZFLP	0.00	0.00	20.00
TOTAL	1,524.28	19,790.34	301,272.96



Precio Promedio (US\$/Bbl.)		
Combustible	Día	Año
Bunker	62.8	45.7
Diesel	72.6	61.6

Disponibilidad y Costo Variable Semanal hasta 11/17/2017 07:00			
GGD	Instalada	Real	Costo
	MW		US\$/MWh
ABR	39.6	13.8	0.0
AMY1	39.9	12.5	0.0
AMY2	23.1	8.0	0.0
CEN	57.0	51.0	108.1
EEC	51.4	51.4	107.2
EEC20	18.5	18.5	102.9
EOL	44.0	14.9	0.0
GSR	5.4	0.0	107.1
HPA1	6.5	6.5	74.6
HPA2	6.5	0.0	74.6
MTL	38.0	0.0	44.7
MTR	35.0	10.0	113.2
NSL	30.0	14.0	121.7
PBP	39.6	8.5	0.0
PCA1	25.0	24.0	73.4
PCA2	25.0	24.0	73.4
PCF1	25.0	0.0	0.0
PCF2	25.0	0.0	0.0
PCG1	19.2	19.2	114.8
PCG2	19.2	19.2	114.9
PCG3	19.2	18.4	114.6
PCG4	19.2	19.2	116.6
PCG5	18.6	17.7	117.2
PCG6	12.9	8.0	103.5
PCG7	38.0	28.9	109.2
PCG8	25.3	18.1	106.6
PCG9	45.3	32.3	106.7
PCHN	15.0		
PEN3	36.0	30.0	95.7
PEN4	36.0	30.0	92.9
PHC1	15.0	13.3	150.0
PHC2	45.0	39.5	150.0
PHL1	8.5	8.5	74.3
PHL2	8.5	0.0	74.3
PLB1	23.0	0.0	247.3
PLB2	35.0	0.0	186.3
PMG3	42.0	0.0	143.3
PMG4	5.5	5.2	111.6
PMG5	5.5	0.0	110.2
PMN	75.0	70.0	111.9
PMT1	30.0	20.0	97.8
PMT2	30.0	0.0	97.8
PMT3	7.0	5.6	97.8
PNI1	50.0	50.0	120.4
PNI2	50.0	0.0	124.5
PSL	12.4	3.8	0.0
TPC	50.9	40.7	100.3
TOTAL	1,331.6	754.6	--

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 Stanby Frio
Control de AGC
Indisponibilidad o Restricción del Recurso de Generación

Combustible (Miles Gls.) del 16/11/2017								
GGD	Consumo*			Recibido			Inventario	Precio (US\$/Bbl.)**
	Día	Mes	Año	Día	Mes	Año		
BUNKER	423.3	6,337.7	107,642.7	477.3	6,194.4	107,095.9	10,078.3	56.3
CEN	45.6	713.1	16,017.8	54.4	746.7	15,544.1	916.2	56.8
EEC								63.2
EEC20	79.8	1,223.9	19,862.4	65.1	1,179.2	19,018.9	3,154.8	63.2
GSR	0.0	0.0	0.0	0.0	0.0	0.0	64.6	63.3
PCG1	2.9	87.7	1,133.7	11.8	111.3	1,072.0	188.1	56.3
PCG2	2.2	51.2	767.2	5.9	35.3	743.7	224.0	65.2
PCG3	8.1	74.7	1,053.0	0.0	5.9	954.6	261.2	65.0
PCG4	1.5	26.6	471.9					65.2
PCG5	1.4	23.3	273.3	5.9	41.1	755.3	226.3	65.2
PCG6	13.7	203.3	2,947.9					63.8
PCG7	43.8	647.8	8,255.7	52.9	934.0	11,386.3	178.1	63.8
PCG8	14.5	202.3	2,625.3	35.3	182.2	2,521.7	331.2	62.6
PCG9	44.0	553.8	6,066.3	52.9	687.5	6,475.8	359.8	63.7
PCG	132.1	1,870.7	23,594.2	164.7	1,997.4	23,909.5	1,768.8	63.4
PMG3	0.0	0.0	0.0	0.0	0.0	93.1		61.6
PMG4	2.4	43.0	577.1	0.0	0.0	655.3	375.3	62.6
PMG5	0.0	35.6	580.6	0.0	0.0	0.0		62.6
PMG	2.4	78.6	1,157.6	0.0	0.0	748.4	375.3	62.2
PNI1	49.6	816.1	14,128.9					63.2
PNI2	0.0	0.0	2,384.8	56.0	832.2	17,129.8	346.2	63.2
PNI	49.6	816.1	16,513.7	56.0	832.2	17,129.8	346.2	63.2
TPC	63.5	885.8	18,040.7	96.0	863.1	18,666.9	924.0	56.3
PMN	50.3	749.6	12,456.3	41.1	575.8	12,078.3	2,528.4	69.3
DIESEL	5.2	106.8	3,451.7	14.8	145.6	2,310.8	450.0	72.6
PCG1	0.4	9.0	214.2	0.0	7.4	133.4	32.7	72.6
PCG2	0.7	10.0	166.9	0.0	14.8	118.6	22.0	72.6
PCG3	0.8	9.1	183.8	0.0	7.4	133.9	6.6	72.6
PCG4	0.6	6.9	147.0					72.6
PCG5	0.7	7.4	68.1	7.4	14.8	163.0	26.6	72.6
PCG6	0.0	2.4	168.9					72.6
PCG7	0.0	11.6	330.1	0.0	14.8	482.3	34.4	72.6
PCG8	0.3	11.9	304.0	0.0	14.8	237.3	34.6	72.6
PCG9	1.2	16.4	418.4	7.4	22.2	400.1	39.0	72.6
PCG	4.9	84.7	2,001.3	14.8	96.4	1,668.6	195.9	72.6
PHC2	0.0	15.1	329.7	0.0	19.5	241.7	129.6	72.6
PHC1	0.0	0.0	13.3					72.6
PHC	0.0	15.1	343.0					72.6
PLB1	0.0	0.0	0.0	0.0	29.7	29.7	34.6	72.6
PLB2	0.0	0.0	0.0					72.6
PLB	0.0	0.0	0.0	0.0	29.7	29.7	34.6	72.6
PMG4	0.0	0.0	0.0	0.0	0.0	0.0	3.8	72.6
PMG	0.0	0.0	0.0	0.0	0.0	0.0	3.8	72.6
PMN	0.3	6.9	1,107.4	0.0	0.0	370.8	86.0	72.6

* El Consumo totaliza el consumo por Generación y Calentamiento.

** El Precio incluye el Cargo de Transporte.

Información de Despejes del 17/11/2017			
Agente	Lugar de Trabajo	Desde	Hasta
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	20/10/2017 23:59	26/01/2018 23:59
TPC	Unidad Generadora (Termoeléctrica) PTP 13.8 U3	17/11/2017 05:00	17/11/2017 05:40
EEC20	Unidad Generadora (Termoeléctrica) PEC 13.8 U1	17/11/2017 06:00	17/11/2017 12:00
PHL	Unidad Generadora (Hidro) PHL 13.8 U2	17/11/2017 07:00	17/11/2017 17:00

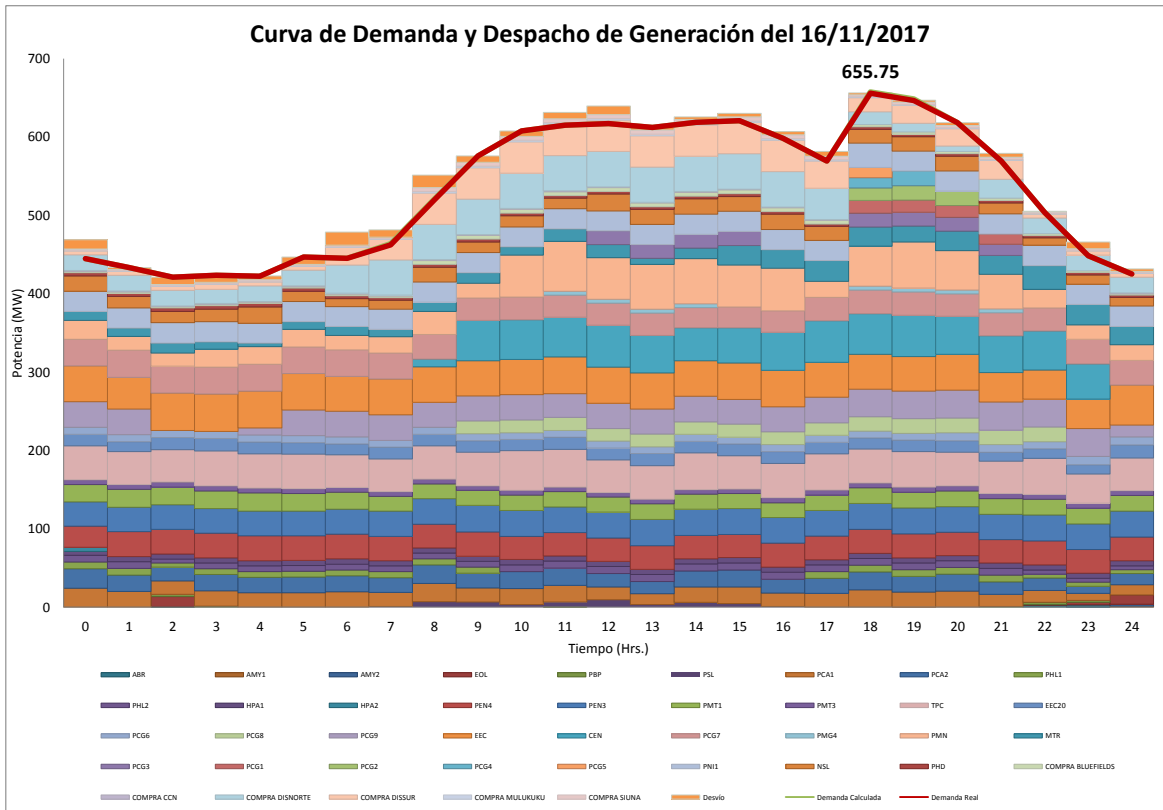
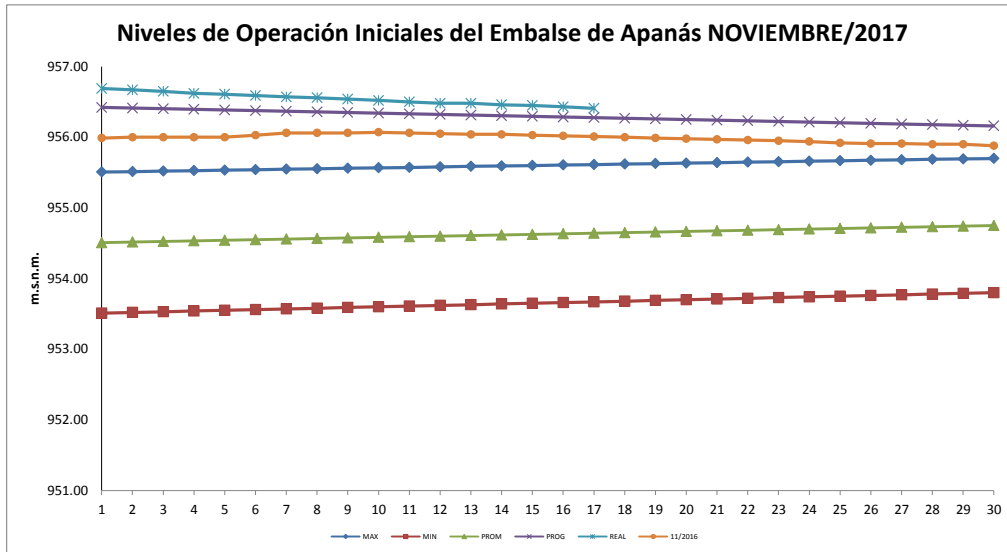
Centro Nacional de Despacho de Carga (CNDC)
Informe de Operación del SIN (Sistema Interconectado Nacional)
Fecha: 16/11/2017

Balance Hidrológico						
16/11/2017						
Embalse	APANAS	ASTURIAS	LA VIRGEN	PANTASMA	LARREYNAGA	UNIDAD
Generación Programada	960.000	N/A	0.000	141.440	297.120	MWh
Generación Real	877.740		0.000	157.180	280.350	MWh
Consumo de Agua	1.460	0.000	0.000	0.170	1.310	MMC
Volumen no Turbinado	0.000	N/A				MMC
Nivel Programado	956.286	N/A				m.s.n.m
Nivel Inicial	956.430	928.540	437.070	841.540	682.120	m.s.n.m
Volumen Inicial	433.340	9.110	9.350	0.230	0.140	MMC
Aporte Natural	0.470	0.070	0.000	0.170	1.290	MMC
Extracción	0.000	0.000	-0.010	0.000	0.000	MMC
Aporte Bombeo	0.000	N/A				MMC
Aporte Total	0.470	0.070	1.440	0.170	1.290	MMC
Nivel Final	956.410	928.540	437.200	841.530	681.700	m.s.n.m
Volumen Final	432.350	9.110	9.930	0.230	0.120	MMC
Derrame	0.000	0.070	0.870	0.000	0.000	MMC
nov-17						
Generación Programada	15,519.000	N/A	0.000	2,874.140	5,225.290	MWh
Generación Real	14,038.850		0.000	3,573.620	5,182.380	MWh
Consumo de Agua	23.300	0.000	0.000	3.820	24.150	MMC
Volumen no Turbinado	0.000	N/A				MMC
Aporte Natural	23.790	5.950	0.000	3.150	24.140	MMC
Extracción	0.000	-0.020	-21.730	-0.290	0.000	MMC
Aporte Bombeo	0.000	N/A				MMC
Aporte Total	23.790	5.930	1.580	2.860	24.140	MMC
Derrame	9.380	6.820	23.030	0.000	0.000	MMC
2017						
Generación Programada	254,989.390	N/A	0.000	48,922.950	85,045.250	MWh
Generación Real	228,764.060		0.000	60,277.740	90,843.440	MWh
Consumo de Agua	378.490	47.210	0.000	64.140	419.460	MMC
Volumen no Turbinado	25.320	N/A				MMC
Aporte Natural	489.780	93.120	93.140	80.050	422.220	MMC
Extracción	-12.760	-2.710	0.000	-2.070	-0.070	MMC
Aporte Bombeo	47.210	N/A				MMC
Aporte Total	524.230	90.410	471.630	77.980	422.140	MMC
Derrame	57.460	40.800	494.660	13.970	2.820	MMC

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

N/A (No Aplica)

Niveles de Operación Iniciales de APANAS (m.s.n.m)						
11/2017						11/2016
Día	MAX	MIN	PROM	PROG	REAL	HISTORICO
1	955.507	953.510	954.508	956.421	956.690	955.990
2	955.513	953.520	954.517	956.412	956.670	956.000
3	955.520	953.530	954.525	956.403	956.650	956.000
4	955.527	953.540	954.533	956.394	956.620	956.000
5	955.533	953.550	954.542	956.385	956.610	956.000
6	955.540	953.560	954.550	956.376	956.590	956.030
7	955.547	953.570	954.558	956.367	956.570	956.060
8	955.553	953.580	954.567	956.358	956.560	956.060
9	955.560	953.590	954.575	956.349	956.540	956.060
10	955.567	953.600	954.583	956.340	956.520	956.070
11	955.573	953.610	954.592	956.331	956.500	956.060
12	955.580	953.620	954.600	956.322	956.480	956.050
13	955.587	953.630	954.608	956.313	956.480	956.040
14	955.593	953.640	954.617	956.304	956.460	956.040
15	955.600	953.650	954.625	956.295	956.450	956.030
16	955.607	953.660	954.633	956.286	956.430	956.020
17	955.613	953.670	954.642	956.277	956.410	956.010
18	955.620	953.680	954.650	956.268		956.000
19	955.627	953.690	954.658	956.259		955.990
20	955.633	953.700	954.667	956.250		955.980
21	955.640	953.710	954.675	956.241		955.970
22	955.647	953.720	954.683	956.232		955.960
23	955.653	953.730	954.692	956.223		955.950
24	955.660	953.740	954.700	956.214		955.940
25	955.667	953.750	954.708	956.205		955.920
26	955.673	953.760	954.717	956.196		955.910
27	955.680	953.770	954.725	956.187		955.910
28	955.687	953.780	954.733	956.178		955.900
29	955.693	953.790	954.742	956.169		955.900
30	955.700	953.800	954.750	956.160		955.880



Hora	Notas
18:00	Demanda Máxima 655.75 MW.