

Centro Nacional de Despacho de Carga (CNDC)  
Informe de Operación del SIN (Sistema Interconectado Nacional)  
Fecha: 21/05/2017

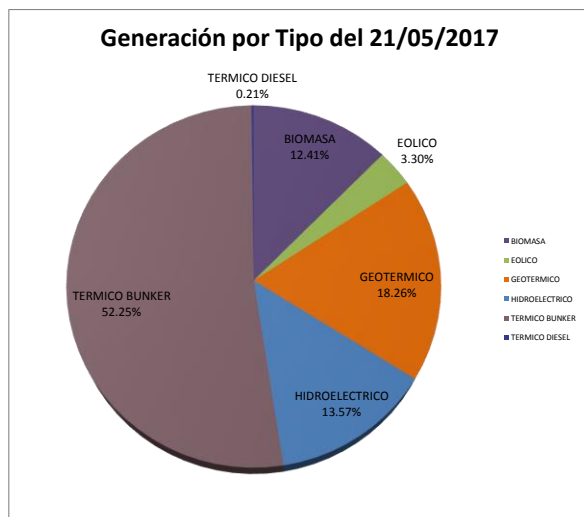
Resumen de Producción de Energía Neta (MWh) del 21/05/2017							
Agente	GGD	Real			Programado		
		Día	Mes	Año	Día	Mes	Año
ALBANISA	PCG1	4.2	1,564.5	5,821.8	0.0	1,017.9	3,329.6
	PCG2	0.0	1,254.4	4,458.7	0.0	946.0	2,598.0
	PCG3	17.3	1,861.9	6,321.4	0.0	1,085.7	5,798.2
	PCG4	0.0	809.0	2,775.8	0.0	95.5	431.0
	PCG5	0.0	564.6	1,796.8	0.0	73.7	236.3
	PCG6	186.9	4,292.3	15,032.4	186.1	3,512.2	16,538.1
	PCG7	194.4	11,423.7	41,446.0	326.3	9,731.2	48,430.7
	PCG8	47.0	3,616.9	12,371.5	47.2	6,727.3	22,431.3
	PCG9	221.4	9,125.6	31,817.6	249.7	12,876.0	50,487.4
	PCG	671.2	34,513.0	121,842.2	809.2	36,065.4	150,280.7
	PHC1	0.0	12.0	116.8	0.0	0.0	0.0
	PHC2	22.2	402.1	1,783.0	0.0	0.0	5.8
	PHC	22.2	414.0	1,899.8	0.0	0.0	5.8
	ABR	79.7	3,337.6	60,282.6	117.5	11,429.0	78,304.0
	TOTAL	773.1	38,264.6	184,024.7	926.7	47,494.4	228,590.5
AMAYO 1	AMY1	52.2	2,861.4	72,281.4	310.2	12,673.0	91,775.0
AMAYO 2	AMY2	35.3	2,120.7	46,173.4	179.5	7,426.2	52,823.2
BLUE POWER	PBP	61.2	3,455.5	73,410.9	170.4	13,210.0	94,658.0
EOLO	EOL	118.8	4,766.9	93,102.2	466.2	16,324.0	108,587.0
EEC	EEC	1,358.1	27,149.0	120,474.2	1,063.0	34,774.0	124,076.0
	EEC20				361.0	10,413.0	29,451.2
	TOTAL	1,358.1	27,149.0	120,474.2	1,424.0	45,187.0	153,527.2
GEOSA	PN1	622.5	13,513.8	85,101.3	616.7	18,685.0	90,976.0
	PN2	0.0	7,814.8	10,026.8	0.0	9,327.0	9,327.0
	TOTAL	622.5	21,328.6	95,128.1	616.7	28,012.0	100,303.0
GESARSA	GSR	0.0	0.0	0.0	0.0	0.0	0.0
GREEN POWER	MTL	570.9	13,429.5	90,803.0	592.8	20,088.0	112,152.0
HIDRO PANTASMA	HPA1	268.6	2,693.7	14,126.7	0.0	1,022.3	4,537.1
	HPA2				141.4	1,022.3	4,537.1
	TOTAL	268.6	2,693.7	14,126.7	141.4	2,044.5	9,074.1
IHSA	PHD	0.0	347.2	5,737.9	0.0	1,277.2	5,289.2
PCA-PCF	PCA1	411.6	3,540.3	44,607.2	425.0	8,481.5	52,513.5
	PCA2	432.9	4,563.8	48,296.8	425.0	8,481.5	52,513.5
	PCA	844.5	8,104.0	92,904.0	850.0	16,963.0	105,027.0
	PCF1	0.0	0.0	0.0	0.0	0.0	0.0
	PCF2	0.0	0.0	0.0	0.0	0.0	0.0
	PCF	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	844.5	8,104.0	92,904.0	850.0	16,963.0	105,027.0	
PENSA	PEN3	736.9	14,852.0	99,185.9	720.0	23,808.0	119,956.0
	PEN4	700.4	14,249.1	81,741.5	720.0	23,808.0	100,606.0
	TOTAL	1,437.3	29,101.1	180,927.4	1,440.0	47,616.0	220,562.0
PHL	PHL1	160.1	1,398.1	17,595.2	150.3	3,133.4	19,570.0
	PHL2	154.9	1,638.4	17,237.0	134.3	3,133.4	19,570.0
	TOTAL	314.9	3,036.5	34,832.3	284.5	6,266.7	39,139.9
AGSA	PMN	892.1	17,678.5	74,248.6	918.4	44,816.8	74,733.8
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	36.1	686.3	3,184.4	17.8	495.5	2,754.1
	PMG5	35.5	921.5	3,571.0	62.2	986.6	3,646.1
	PMG	71.6	1,607.8	6,755.4	80.0	1,482.1	6,400.3
TOTAL	71.6	1,607.8	6,755.4	80.0	1,482.1	6,400.3	
CENSA	CEN	1,069.1	22,053.0	96,786.9	1,128.0	18,138.0	83,926.5
MONTE ROSA	MTR	386.6	13,045.6	97,069.9	387.6	14,136.0	97,656.0
NSEL	NSL	348.0	8,824.7	79,262.5	136.8	8,927.9	93,863.9
PMT	PMT1	428.0	1,166.0	19,310.0	432.0	13,258.3	66,367.4
	PMT2	0.0	7,623.0	44,252.0	0.0	0.0	0.0
	PMT3	56.4	1,771.3	16,360.5	52.8	4,002.7	20,013.6
	TOTAL	484.4	10,560.3	79,922.5	484.8	17,261.0	86,381.0
SOLARIS	PSL	0.0	0.0	0.0	0.0	0.0	0.0
TPC	TPC	813.9	17,240.4	125,678.8	892.2	28,388.0	147,698.0
TOTAL		10,523.2	247,669.0	1,663,650.8	11,430.2	397,731.8	1,912,167.4

Resumen de Producción de Energía Neta (MWh) por Tipo del 21/05/2017						
Tipo Recurso	Real			Programado		
	Día	Mes	Año	Día	Mes	Año
BIOMASA	1,305.6	35,299.8	267,135.3	1,117.2	43,151.9	303,671.9
EOLICO	347.2	16,542.1	345,250.6	1,243.8	61,062.2	426,147.2
GEOTERMICO	1,921.7	39,661.3	260,850.0	1,924.8	64,877.0	306,943.0
HIDROELECTRICO	1,428.1	14,181.4	147,600.8	1,275.9	26,551.4	158,530.2
SOLAR	0.0	0.0	0.0	0.0	0.0	0.0
TERMICO BUNKER	5,498.5	141,570.3	640,914.3	5,868.5	202,089.3	716,869.4
TERMICO DIESEL	22.2	414.0	1,899.8	0.0	0.0	5.8
TOTAL	10,523.2	247,669.0	1,663,650.8	11,430.2	397,731.8	1,912,167.4

Balance de Energía Neta (MWh) del 21/05/2017			
Energía	Día	Mes	Año
Interconexión Neta	76.0	-302.7	-2,191.4
AMY-L9030	497.5	8,934.5	8,851.0
TCPI-L9150	633.5	9,462.9	92,586.4
LNI-L9040	-716.5	-6,395.3	-25,753.3
SND-L9090	-423.6	-1,474.3	-10,441.6
Generación	10,523.2	229,990.4	1,589,402.2
No Servida	19.6	1,335.3	7,593.6
Demanda Neta	10,533.5	241,853.6	1,662,238.3

Comportamiento de la Demanda (MW) del 21/05/2017			
Potencia Máxima	Día	Mes	Año
Real	577.1	697.7	709.1
Fecha y Hora	21/05/2017 19:00	04/05/2017 19:00	04/04/2017 19:00
Calculada	580.0	697.7	710.4
Fecha y Hora	21/05/2017 19:00	04/05/2017 19:00	04/04/2017 19:00
Programado	595.2	714.9	715.0
Fecha y Hora	21/05/2017 19:00	05/2017	04/2017

Resumen del Mercado Eléctrico Regional (MER) del 21/05/2017			
Agente	Real		
	Día	Mes	Año
Resumen de Ventas (MWh)			
ALBANISA	0.00	18.99	20.06
DISNORTE	42.57	193.34	461.25
DISSUR	42.57	193.34	460.98
TOTAL	85.14	405.67	942.29
Resumen de Compras (MWh)			
BLUEFIELDS	0.00	702.94	7,538.63
DISNORTE	0.00	4,740.57	24,161.28
DISSUR	0.00	4,664.37	23,754.71
EEC20	0.00	0.00	1,761.59
MULUKUKU	0.00	298.11	2,938.48
SIJUNA	0.00	830.23	8,221.55
TOTAL	0.00	11,236.22	68,376.24



Precio Promedio (US\$/Bbl.)		
Combustible	Día	Año
Bunker	47.5	45.1
Diesel	55.6	61.5

Disponibilidad y Costo Variable Semanal hasta 05/22/2017 07:00			
GGD	Instalada	Real	Costo
	MW		US\$/MWh
ABR	39.6	15.8	0.0
AMY1	39.9	23.2	0.0
AMY2	23.1	13.5	0.0
CEN	57.0	51.0	89.6
EEC	51.4	51.4	88.3
EEC20	18.5	18.5	85.2
EOL	44.0	29.0	0.0
GSR	5.4	0.0	89.1
HPA1	6.5	0.0	94.2
HPA2	6.5	0.0	94.2
MTL	38.0	26.0	44.7
MTR	35.0	17.0	113.2
NSL	30.0	6.0	121.7
PBP	39.6	12.5	0.0
PCA1	25.0	24.0	93.2
PCA2	25.0	24.0	93.2
PCF1	25.0	0.0	0.0
PCF2	25.0	0.0	0.0
PCG1	19.2	17.4	96.1
PCG2	19.2	17.6	96.2
PCG3	19.2	18.1	96.0
PCG4	19.2	19.2	98.2
PCG5	18.6	17.7	98.8
PCG6	12.9	9.9	85.8
PCG7	38.0	29.3	90.6
PCG8	25.3	19.5	88.8
PCG9	45.3	36.2	88.5
PCHN	15.0		
PEN3	36.0	30.0	95.7
PEN4	36.0	30.0	92.9
PHC1	15.0	13.3	124.8
PHC2	45.0	39.5	124.8
PHL1	8.5	8.5	93.4
PHL2	8.5	8.5	93.4
PLB1	23.0	0.0	208.6
PLB2	35.0	0.0	156.6
PMG3	42.0	0.0	113.1
PMG4	5.5	5.2	90.4
PMG5	5.5	5.2	89.1
PMN	75.0	70.0	0.0
PMT1	30.0	18.0	97.8
PMT2	30.0	0.0	97.8
PMT3	6.4	0.0	97.8
PNI1	50.0	50.0	97.7
PNI2	50.0	50.0	101.0
PSL	12.4	0.0	0.0
TPC	50.9	40.7	82.6
<b>TOTAL</b>	<b>1,331.0</b>	<b>865.5</b>	<b>--</b>

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 21/05/2017								
GGD	Consumo*			Recibido			Inventario	Precio (US\$/Bbl.)**
	Día	Mes	Año	Día	Mes	Año		
<b>BUNKER</b>	<b>342.4</b>	<b>8,962.0</b>	<b>40,608.4</b>	<b>155.4</b>	<b>10,349.9</b>	<b>39,055.1</b>	<b>9,783.6</b>	<b>41.6</b>
CEN	66.4	1,376.7	6,076.5	155.4	1,484.9	5,709.7	942.2	42.2
EEC								48.6
EEC20	83.2	1,668.9	7,538.7	0.0	1,964.1	6,530.0	2,832.9	48.6
GSR	0.0	0.0	0.0	0.0	0.0	0.0	64.6	48.7
PCG1	0.0	88.5	342.8	0.0	99.8	245.6	193.5	41.6
PCG2	0.0	70.9	252.2	0.0	76.3	234.3	224.0	50.5
PCG3	0.7	107.5	373.6	0.0	152.8	334.7	365.6	50.3
PCG4	0.0	43.6	150.0					50.5
PCG5	0.0	30.5	96.9	0.0	46.9	228.2	210.3	50.5
PCG6	11.2	262.1	915.5					49.2
PCG7	11.4	707.5	2,520.1	0.0	969.2	3,111.2	458.2	49.2
PCG8	2.3	217.4	724.9	0.0	440.6	770.5	367.3	48.0
PCG9	13.1	538.1	1,876.2	0.0	583.2	1,735.1	345.8	49.1
<b>PCG</b>	<b>38.8</b>	<b>2,066.0</b>	<b>7,252.3</b>	<b>0.0</b>	<b>2,369.0</b>	<b>6,659.6</b>	<b>2,164.8</b>	<b>48.8</b>
PMG3	0.0	0.0	0.0	0.0	0.0	0.0		47.0
PMG4	2.2	44.1	197.1	0.0	0.0	70.2	215.9	47.9
PMG5	2.2	58.8	223.6	0.0	0.0	0.0		47.9
<b>PMG</b>	<b>4.5</b>	<b>102.9</b>	<b>420.6</b>	<b>0.0</b>	<b>0.0</b>	<b>70.2</b>	<b>215.9</b>	<b>47.6</b>
PNI1	49.1	1,065.2	6,708.0					48.5
PNI2	0.0	637.1	817.4	0.0	3,176.8	8,163.2	378.7	48.5
<b>PNI</b>	<b>49.1</b>	<b>1,702.3</b>	<b>7,525.4</b>	<b>0.0</b>	<b>3,176.8</b>	<b>8,163.2</b>	<b>378.7</b>	<b>48.5</b>
TPC	50.0	1,059.1	7,720.3	0.0	1,208.2	9,431.9	1,423.8	41.6
PMN	50.6	986.1	4,074.7	0.0	146.8	2,490.6	1,760.6	41.6
<b>DIESEL</b>	<b>8.3</b>	<b>404.7</b>	<b>1,352.3</b>	<b>0.0</b>	<b>192.6</b>	<b>948.6</b>	<b>611.2</b>	<b>55.6</b>
PCG1	0.8	43.7	82.3	0.0	7.4	37.0	32.2	55.6
PCG2	0.0	31.8	59.2	0.0	14.8	44.5	18.6	55.6
PCG3	0.5	33.4	72.2	0.0	14.9	37.1	10.7	55.6
PCG4	0.0	29.9	51.3					55.6
PCG5	0.0	6.5	20.9	0.0	14.8	44.4	23.4	55.6
PCG6	0.3	41.8	87.5					55.6
PCG7	1.0	20.5	163.2	0.0	37.0	229.7	39.1	55.6
PCG8	1.0	54.6	123.3	0.0	22.2	89.0	31.4	55.6
PCG9	1.6	30.2	154.9	0.0	37.0	185.1	38.6	55.6
<b>PCG</b>	<b>5.2</b>	<b>292.6</b>	<b>814.8</b>	<b>0.0</b>	<b>148.2</b>	<b>666.8</b>	<b>194.0</b>	<b>55.6</b>
PHC2	1.7	30.3	133.6	0.0	14.8	74.0	112.6	55.6
PHC1	0.0	0.9	8.4					55.6
<b>PHC</b>	<b>1.7</b>	<b>31.3</b>	<b>141.9</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>196.5</b>	<b>55.6</b>
PLB1	0.0	0.0	0.0					55.6
PLB2	0.0	0.0	0.0					55.6
<b>PLB</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>196.5</b>	<b>55.6</b>
PMG4	0.0	0.0	0.0	0.0	0.0	0.0	3.8	55.6
<b>PMG</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3.8</b>	<b>55.6</b>
PMN	1.4	80.9	395.6	0.0	29.7	207.8	104.2	55.6

\* El Consumo totaliza el consumo por Generación y Calentamiento.

\*\* El Precio incluye el Cargo de Transporte.

Información de Despejes del 22/05/2017			
Agente	Lugar de Trabajo	Desde	Hasta
PCA-PCF	Unidad Generadora (Hidro) PCF 10.5 U2	01/12/2016 07:00	28/06/2017 23:59
TPC	Unidad Generadora (Termoeléctrica) PTP 13.8 U3	21/05/2017 00:00	29/05/2017 23:59

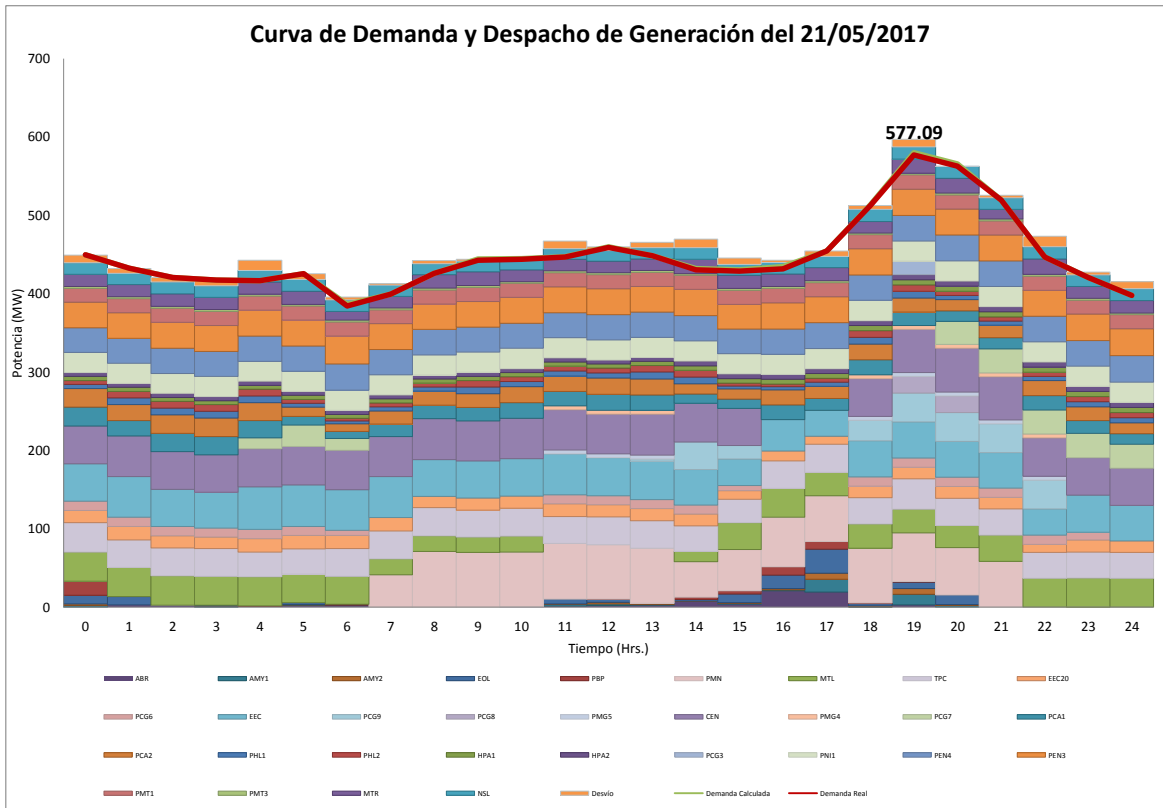
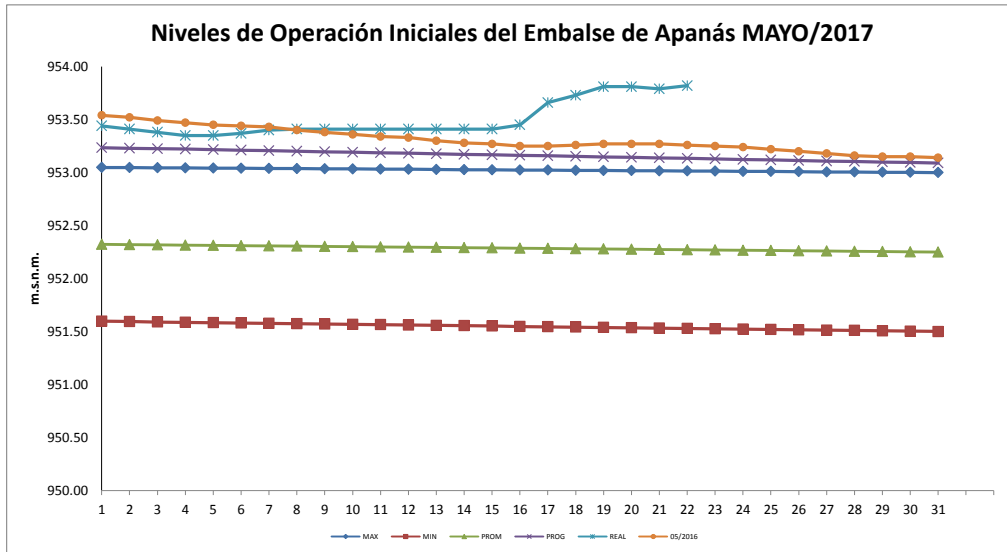
**Centro Nacional de Despacho de Carga (CNDC)**  
**Informe de Operación del SIN (Sistema Interconectado Nacional)**  
**Fecha: 21/05/2017**

<b>Balance Hidrológico</b>							
<b>21/05/2017</b>							
<b>Embalse</b>	<b>APANAS</b>	<b>ASTURIAS</b>	<b>LA VIRGEN</b>	<b>PANTASMA</b>	<b>LARREYNAGA</b>	<b>UNIDAD</b>	
Generación Programada	850.000	N/A	0.000	141.440	284.510	MWh	
Generación Real	844.490		0.000	268.640	314.940	MWh	
Consumo de Agua	1.400	0.080	0.000	0.290	1.470	MMC	
Nivel Programado	953.138	N/A					m.s.n.m
Nivel Inicial	953.790	925.970	439.420	842.070	682.090	m.s.n.m	
Volumen Inicial	308.320	2.940	21.040	0.640		MMC	
Aporte Natural	2.600	0.630	0.000	0.510	1.470	MMC	
Extracción	0.000	0.000	-0.960	0.000	0.000	MMC	
Aporte Bombeo	0.080	N/A					MMC
Aporte Total	2.680	0.630	0.440	0.510	1.470	MMC	
Nivel Final	953.820	926.200	439.390	843.070	682.190	m.s.n.m	
Volumen Final	309.520	3.490	20.850	0.860		MMC	
Derrame	0.000	0.000	0.630	0.000	0.000	MMC	
<b>may-17</b>							
Generación Programada	9,222.220	N/A	0.000	2,008.280	2,808.960	MWh	
Generación Real	8,104.010		0.000	2,693.710	3,036.470	MWh	
Consumo de Agua	13.450	1.570	0.000	2.880	14.150	MMC	
Aporte Natural	28.810	3.990	0.000	3.300	14.130	MMC	
Extracción	-0.200	0.000	-3.550	-0.260	-0.060	MMC	
Aporte Bombeo	1.570	N/A					MMC
Aporte Total	30.180	3.990	9.900	3.040	14.070	MMC	
Derrame	0.000	0.000	9.340	0.000	0.010	MMC	
<b>2017</b>							
Generación Programada	105,537.670	N/A	0.000	10,763.300	34,309.990	MWh	
Generación Real	92,904.000		0.000	14,126.690	34,832.250	MWh	
Consumo de Agua	152.970	18.140	0.000	15.110	161.400	MMC	
Aporte Natural	66.740	14.920	0.000	16.630	161.760	MMC	
Extracción	-9.570	0.000	-120.580	-0.950	-0.060	MMC	
Aporte Bombeo	18.140	N/A					MMC
Aporte Total	75.320	14.920	32.390	15.670	161.700	MMC	
Derrame	0.000	0.000	35.890	0.000	0.400	MMC	

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

N/A (No Aplica)

<b>Niveles de Operación Iniciales de APANAS (m.s.n.m)</b>						
<b>05/2017</b>						<b>05/2016</b>
<b>Día</b>	<b>MAX</b>	<b>MIN</b>	<b>PROM</b>	<b>PROG</b>	<b>REAL</b>	<b>HISTORICO</b>
1	953.048	951.597	952.323	953.235	953.440	953.540
2	953.047	951.594	952.320	953.230	953.410	953.520
3	953.045	951.590	952.318	953.225	953.380	953.490
4	953.044	951.587	952.315	953.221	953.350	953.470
5	953.042	951.584	952.313	953.216	953.350	953.450
6	953.040	951.581	952.310	953.211	953.370	953.440
7	953.039	951.577	952.308	953.206	953.400	953.430
8	953.037	951.574	952.306	953.201	953.410	953.400
9	953.035	951.571	952.303	953.196	953.410	953.380
10	953.034	951.568	952.301	953.192	953.410	953.360
11	953.032	951.565	952.298	953.187	953.410	953.340
12	953.031	951.561	952.296	953.182	953.410	953.330
13	953.029	951.558	952.294	953.177	953.410	953.300
14	953.027	951.555	952.291	953.172	953.410	953.280
15	953.026	951.552	952.289	953.167	953.410	953.270
16	953.024	951.548	952.286	953.163	953.450	953.250
17	953.023	951.545	952.284	953.158	953.660	953.250
18	953.021	951.542	952.281	953.153	953.730	953.260
19	953.019	951.539	952.279	953.148	953.810	953.270
20	953.018	951.535	952.277	953.143	953.810	953.270
21	953.016	951.532	952.274	953.138	953.790	953.270
22	953.015	951.529	952.272	953.134	953.820	953.260
23	953.013	951.526	952.269	953.129		953.250
24	953.011	951.523	952.267	953.124		953.240
25	953.010	951.519	952.265	953.119		953.220
26	953.008	951.516	952.262	953.114		953.200
27	953.006	951.513	952.260	953.109		953.180
28	953.005	951.510	952.257	953.105		953.160
29	953.003	951.506	952.255	953.100		953.150
30	953.002	951.503	952.252	953.095		953.150
31	953.000	951.500	952.250	953.090		953.140



Hora	Notas
19:00	Demanda Máxima 577.09 MW.