

**Centro Nacional de Despacho de Carga (CNDC)**  
**Informe de Operación del SIN (Sistema Interconectado Nacional)**  
 Fecha: 14/08/2017

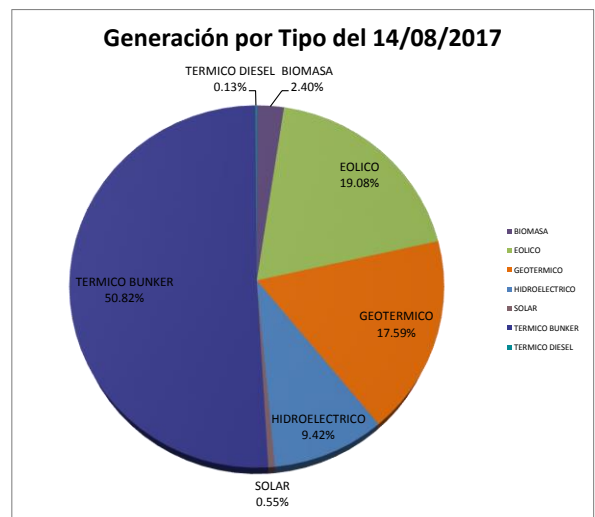
Resumen de Producción de Energía Neta (MWh) del 14/08/2017								
Agente	GGD	Real			Programado			
		Día	Mes	Año	Día	Mes	Año	
ALBANISA	PCG1	48.1	1,116.9	9,859.0	36.5	4,329.3	11,146.0	
	PCG2	28.8	750.9	6,890.5	36.5	4,294.0	11,911.6	
	PCG3	33.7	817.3	10,340.9	15.6	4,977.4	16,898.6	
	PCG4	15.4	412.4	4,115.3	0.0	1,772.9	4,243.8	
	PCG5	0.0	206.8	2,404.8	0.0	1,769.6	3,400.6	
	PCG6	192.0	2,635.3	27,764.6	242.1	5,698.7	31,498.7	
	PCG7	558.1	8,094.2	78,505.6	658.8	17,863.0	91,975.7	
	PCG8	211.1	2,940.4	23,510.0	285.9	7,134.0	39,532.9	
	PCG9	161.3	5,099.8	57,605.4	434.8	14,899.0	87,313.0	
	<b>PCG</b>	<b>1,248.5</b>	<b>22,073.9</b>	<b>220,996.1</b>	<b>1,710.0</b>	<b>62,737.9</b>	<b>297,920.9</b>	
	PHC1	0.0	8.5	168.3	0.0	36.6	87.4	
	PHC2	14.6	240.5	2,901.6	0.0	793.7	1,595.7	
	<b>PHC</b>	<b>14.6</b>	<b>249.0</b>	<b>3,070.0</b>	<b>0.0</b>	<b>830.3</b>	<b>1,683.1</b>	
	ABR	365.9	2,641.8	79,330.5	374.5	11,061.0	112,026.1	
	<b>TOTAL</b>	<b>1,629.0</b>	<b>24,964.7</b>	<b>303,396.5</b>	<b>2,084.5</b>	<b>74,629.2</b>	<b>411,630.2</b>	
	AMAYO 1	AMY1	473.3	2,890.2	91,826.9	355.0	10,337.0	125,368.0
	AMAYO 2	AMY2	333.2	2,012.6	60,319.5	221.8	6,173.6	73,146.9
BLUE POWER	PBP	399.9	2,775.7	93,448.0	331.8	10,266.0	126,892.3	
EOLO	EOL	571.5	4,018.8	122,024.1	412.4	14,058.0	153,171.0	
EEC	EEC				1,118.5	32,264.0	214,700.0	
	EEC20	1,273.8	17,053.7	217,221.3	280.6	1,776.4	48,584.8	
	<b>TOTAL</b>	<b>1,273.8</b>	<b>17,053.7</b>	<b>217,221.3</b>	<b>1,399.1</b>	<b>34,040.4</b>	<b>263,284.8</b>	
GEOSA	PN1	625.8	8,845.6	119,176.5	600.0	20,153.0	129,917.0	
	PN2	0.0	0.0	29,254.6	0.0	0.0	28,748.0	
	<b>TOTAL</b>	<b>625.8</b>	<b>8,845.6</b>	<b>148,431.1</b>	<b>600.0</b>	<b>20,153.0</b>	<b>158,665.0</b>	
GESARSA	GSR	0.0	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	302.6	4,258.8	35,041.2	141.4	3,181.6	16,589.6	
	HPA2				141.4	3,181.6	16,589.6	
	<b>TOTAL</b>	<b>302.6</b>	<b>4,258.8</b>	<b>35,041.2</b>	<b>282.9</b>	<b>6,363.1</b>	<b>33,179.1</b>	
IHSA	PHD	104.9	1,547.8	12,653.6	0.0	3,298.1	14,134.9	
PCA-PCF	PCA1	0.0	934.3	74,584.4	0.0	15,170.5	94,891.0	
	PCA2	473.6	6,811.8	85,689.0	528.0	15,170.5	94,891.0	
	<b>PCA</b>	<b>473.6</b>	<b>7,746.1</b>	<b>160,273.4</b>	<b>528.0</b>	<b>30,341.0</b>	<b>189,782.0</b>	
	PCF1	0.0	0.0	0.0	0.0	0.0	0.0	
	PCF2	0.0	0.0	0.0	0.0	8,091.4	8,091.4	
	<b>PCF</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>8,091.4</b>	<b>8,091.4</b>	
<b>TOTAL</b>	<b>473.6</b>	<b>7,746.1</b>	<b>160,273.4</b>	<b>528.0</b>	<b>38,432.4</b>	<b>197,873.4</b>		
PENSA	PEN3	730.0	10,031.2	160,165.2	720.0	26,040.0	192,892.0	
	PEN4	682.2	9,332.3	139,748.2	720.0	23,808.0	169,078.0	
	<b>TOTAL</b>	<b>1,412.2</b>	<b>19,363.5</b>	<b>299,913.5</b>	<b>1,440.0</b>	<b>49,848.0</b>	<b>361,970.0</b>	
PHL	PHL1	0.0	1,111.5	29,305.0	106.5	5,975.5	36,084.3	
	PHL2	177.3	1,808.2	30,232.6	77.5	5,975.5	36,084.3	
	<b>TOTAL</b>	<b>177.3</b>	<b>2,919.7</b>	<b>59,537.6</b>	<b>184.0</b>	<b>11,951.0</b>	<b>72,168.6</b>	
AGSA	PMN	918.5	11,987.9	146,390.1	935.3	26,164.0	154,073.1	
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	
	<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>	
	PMG3	0.0	0.0	0.0	0.0	0.0	0.0	
	PMG4	25.5	559.5	5,473.9	44.4	1,680.6	6,605.0	
	PMG5	25.5	555.9	5,822.1	49.3	1,491.1	7,924.5	
	<b>PMG</b>	<b>51.0</b>	<b>1,115.4</b>	<b>11,296.0</b>	<b>93.7</b>	<b>3,171.7</b>	<b>14,529.5</b>	
<b>TOTAL</b>	<b>51.0</b>	<b>1,115.4</b>	<b>11,296.0</b>	<b>93.7</b>	<b>3,171.7</b>	<b>14,529.5</b>		
CENSA	CEN	619.2	12,174.2	174,164.7	760.2	24,847.0	148,461.5	
MONTE ROSA	MTR	270.0	3,780.9	138,060.4	285.0	5,952.0	135,744.0	
NSEL	NSL	0.0	0.0	79,471.9	0.0	0.0	93,863.9	
PMT	PMT1	429.0	6,037.0	55,322.0	427.2	13,853.3	107,351.2	
	PMT2	0.0	0.0	44,252.0	0.0	0.0	0.0	
	PMT3	135.1	1,924.6	27,471.8	136.8	4,002.7	32,021.8	
	<b>TOTAL</b>	<b>564.1</b>	<b>7,961.6</b>	<b>127,045.8</b>	<b>564.0</b>	<b>17,856.0</b>	<b>139,373.0</b>	
SOLARIS	PSL	62.3	708.8	4,348.9	57.9	1,939.5	3,929.9	
TPC	TPC	972.8	12,592.6	201,861.0	1,116.2	34,556.0	246,642.0	
<b>TOTAL</b>	<b>11,235.0</b>	<b>148,718.8</b>	<b>2,592,089.6</b>	<b>11,651.7</b>	<b>394,036.0</b>	<b>3,051,773.0</b>		

Resumen de Producción de Energía Neta (MWh) por Tipo del 14/08/2017						
Tipo Recurso	Real			Programado		
	Día	Mes	Año	Día	Mes	Año
BIOMASA	270.0	3,780.9	322,896.3	285.0	5,952.0	353,279.9
EOLICO	2,143.8	14,339.1	446,949.0	1,695.4	51,895.6	590,604.3
GEOTERMICO	1,976.2	27,325.1	426,959.3	2,004.0	67,704.0	501,343.0
HIDROELECTRICO	1,058.4	16,472.5	267,505.8	994.8	60,044.6	317,356.0
SOLAR	62.3	708.8	4,348.9	57.9	1,939.5	3,929.9
TERMICO BUNKER	5,709.6	85,843.3	1,120,360.4	6,614.5	205,670.0	1,283,576.8
TERMICO DIESEL	14.6	249.0	3,070.0	0.0	830.3	1,683.1
<b>TOTAL</b>	<b>11,235.0</b>	<b>148,718.8</b>	<b>2,592,089.6</b>	<b>11,651.7</b>	<b>394,036.0</b>	<b>3,051,773.0</b>

Balance de Energía Neta (MWh) del 14/08/2017			
Energía	Día	Mes	Año
Interconexión Neta	-42.7	-227.3	-3,451.3
AMY-L9030	397.7	14,139.8	69,821.1
TCPI-L9150	783.0	13,718.7	157,216.5
LNI-L9040	-166.5	-5,205.3	-48,006.7
SND-L9090	-120.5	-4,242.5	-26,053.4
<b>Generación</b>	<b>11,235.0</b>	<b>136,730.8</b>	<b>2,445,699.5</b>
<b>No Servida</b>	<b>65.0</b>	<b>639.5</b>	<b>11,779.1</b>
<b>Demanda Neta</b>	<b>12,193.6</b>	<b>155,781.0</b>	<b>2,610,456.1</b>

Comportamiento de la Demanda (MW) del 14/08/2017			
Potencia Máxima	Día	Mes	Año
Real	661.0	661.0	709.1
Fecha y Hora	14/08/2017 19:00	14/08/2017 19:00	04/04/2017 19:00
Calculada	661.0	661.6	710.4
Fecha y Hora	14/08/2017 19:00	04/08/2017 19:00	04/04/2017 19:00
Programado	645.4	694.3	715.0
Fecha y Hora	14/08/2017 19:00	08/2017	04/2017

Resumen del Mercado Eléctrico Regional (MER) del 14/08/2017			
Agente	Real		
	Día	Mes	Año
<b>Resumen de Ventas (MWh)</b>			
ALBANISA	0.00	0.00	103.43
DISNORTE	0.00	0.00	461.25
DISSUR	0.00	0.00	460.98
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>1,025.66</b>
<b>Resumen de Compras (MWh)</b>			
BLUEFIELDS	74.51	1,126.63	13,526.64
DISNORTE	259.81	7,473.70	60,292.23
DISSUR	499.81	8,429.14	62,097.34
EEC20	0.00	49.50	2,070.92
MULUKUKU	24.88	391.29	4,940.96
SIUNA	77.31	1,167.80	14,526.34
<b>TOTAL</b>	<b>936.32</b>	<b>18,638.06</b>	<b>157,454.43</b>



Precio Promedio (US\$/Bbl.)		
Combustible	Día	Año
Bunker	52.1	44.5
Diesel	61.2	59.7

Disponibilidad y Costo Variable Semanal hasta 08/15/2017 07:00			
GGD	Instalada	Real	Costo
	MW		US\$/MWh
ABR	39.6	18.1	0.0
AMY1	39.9	23.0	0.0
AMY2	23.1	13.5	0.0
CEN	57.0	51.0	92.8
EEC	51.4	51.4	91.6
EEC20	18.5	18.5	88.3
EOL	44.0	27.7	0.0
GSR	5.4	0.0	92.2
HPA1	6.5	6.5	71.2
HPA2	6.5	6.5	71.2
MTL	38.0	0.0	44.7
MTR	35.0	12.5	113.2
NSL	30.0	0.0	121.7
PBP	39.6	17.6	0.0
PCA1	25.0	0.0	71.0
PCA2	25.0	25.0	71.0
PCF1	25.0	0.0	0.0
PCF2	25.0	0.0	0.0
PCG1	19.2	19.2	99.3
PCG2	19.2	19.2	99.4
PCG3	19.2	16.4	99.2
PCG4	19.2	19.2	101.4
PCG5	18.6	17.7	102.0
PCG6	12.9	8.2	88.8
PCG7	38.0	26.9	93.8
PCG8	25.3	19.5	91.8
PCG9	45.3	16.5	91.7
PCHN	15.0		
PEN3	36.0	30.0	95.7
PEN4	36.0	30.0	92.9
PHC1	15.0	13.3	131.0
PHC2	45.0	39.5	131.0
PHL1	8.5	8.5	76.4
PHL2	8.5	8.5	76.4
PLB1	23.0	0.0	218.1
PLB2	35.0	0.0	163.9
PMG3	42.0	0.0	121.2
PMG4	5.5	5.2	96.1
PMG5	5.5	5.2	94.7
PMN	75.0	70.0	97.5
PMT1	30.0	17.8	97.8
PMT2	30.0	0.0	97.8
PMT3	7.0	5.6	97.8
PNI1	50.0	50.0	101.6
PNI2	50.0	50.0	105.1
PSL	12.4	3.0	0.0
TPC	50.9	50.9	85.7
<b>TOTAL</b>	<b>1,331.6</b>	<b>821.5</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 Stanby Frio
Control de AGC
Indisponibilidad o Restricción del Recurso de Generación

Combustible (Miles Gls.) del 14/08/2017								
GGD	Consumo*			Recibido			Inventario	Precio (US\$/Bbl.)**
	Día	Mes	Año	Día	Mes	Año		
<b>BUNKER</b>	<b>355.8</b>	<b>5,401.5</b>	<b>70,728.4</b>	<b>311.0</b>	<b>4,648.7</b>	<b>68,636.8</b>	<b>8,678.5</b>	<b>46.2</b>
CEN	39.6	778.1	10,945.0	77.8	543.6	10,349.0	710.3	46.8
EEC								53.2
EEC20	76.6	1,083.8	13,590.5	43.7	1,002.8	11,918.8	2,188.2	53.2
GSR	0.0	0.0	0.0	0.0	0.0	0.0	64.6	53.3
PCG1	2.1	63.9	562.5	11.7	11.7	432.5	160.5	46.2
PCG2	1.3	42.0	383.1	0.0	52.3	374.6	238.8	55.1
PCG3	1.6	49.0	606.5	0.0	0.0	557.5	346.5	54.9
PCG4	0.5	22.2	218.5					55.1
PCG5	0.0	9.8	125.9	0.0	40.7	356.6	241.1	55.1
PCG6	11.7	168.6	1,699.4					53.8
PCG7	35.2	470.8	4,774.3	58.2	726.0	6,199.3	182.2	53.8
PCG8	13.1	181.1	1,413.9	0.0	116.1	1,309.2	267.6	52.6
PCG9	9.5	305.2	3,431.2	17.6	347.7	3,539.6	226.7	53.7
<b>PCG</b>	<b>75.0</b>	<b>1,312.5</b>	<b>13,215.3</b>	<b>87.5</b>	<b>1,294.5</b>	<b>12,769.4</b>	<b>1,663.5</b>	<b>53.4</b>
PMG3	0.0	0.0	0.0	0.0	0.0	93.1		51.6
PMG4	1.6	35.4	340.4	0.0	0.0	310.5	267.9	52.5
PMG5	1.6	40.7	372.4	0.0	0.0	0.0		52.5
<b>PMG</b>	<b>3.2</b>	<b>76.1</b>	<b>712.8</b>	<b>0.0</b>	<b>0.0</b>	<b>403.5</b>	<b>267.9</b>	<b>52.2</b>
PNI1	49.3	697.2	9,393.9					53.1
PNI2	0.0	0.0	2,384.8	64.0	717.1	12,296.8	245.6	53.1
<b>PNI</b>	<b>49.3</b>	<b>697.2</b>	<b>11,778.7</b>	<b>64.0</b>	<b>717.1</b>	<b>12,296.8</b>	<b>245.6</b>	<b>53.1</b>
TPC	59.8	773.6	12,404.7	32.0	696.1	13,791.3	1,185.9	46.2
PMN	52.3	680.3	8,081.3	5.9	394.5	7,107.9	2,352.4	46.2
<b>DIESEL</b>	<b>8.5</b>	<b>103.3</b>	<b>2,005.9</b>	<b>0.0</b>	<b>59.3</b>	<b>1,542.5</b>	<b>575.3</b>	<b>61.2</b>
PCG1	1.0	7.9	125.2	0.0	0.0	74.1	26.1	61.2
PCG2	0.6	6.8	88.0	0.0	0.0	59.3	19.3	61.2
PCG3	0.8	6.2	118.7	0.0	7.4	81.9	8.6	61.2
PCG4	0.5	4.8	71.6					61.2
PCG5	0.0	3.9	33.1	0.0	14.8	88.9	27.7	61.2
PCG6	0.9	5.0	120.4					61.2
PCG7	1.5	13.0	259.7	0.0	0.0	341.5	19.3	61.2
PCG8	0.5	10.6	198.2	0.0	14.8	163.1	30.7	61.2
PCG9	1.1	14.2	275.2	0.0	22.2	303.7	36.8	61.2
<b>PCG</b>	<b>6.8</b>	<b>72.4</b>	<b>1,289.9</b>	<b>0.0</b>	<b>59.3</b>	<b>1,112.5</b>	<b>168.5</b>	<b>61.2</b>
PHC2	1.2	18.1	217.8	0.0	0.0	133.3	110.0	61.2
PHC1	0.0	0.6	12.3					61.2
<b>PHC</b>	<b>1.2</b>	<b>18.7</b>	<b>230.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>192.6</b>	<b>61.2</b>
PLB1	0.0	0.0	0.0	0.0	0.0	0.0		61.2
PLB2	0.0	0.0	0.0					61.2
<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>192.6</b>	<b>61.2</b>
PMG4	0.0	0.0	0.0	0.0	0.0	0.0	3.8	61.2
<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>61.2</b>
PMN	0.5	12.3	486.0	0.0	0.0	296.7	100.4	61.2

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

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

Información de Despejes del 15/08/2017			
Agente	Lugar de Trabajo	Desde	Hasta
PCA-PCF	Unidad Generadora (Hidro) PCA 10.5 U1	03/08/2017 11:00	15/09/2017 20:00
ENATREL	Barra (Bahía) PTZ 138 B801	15/08/2017 08:00	16/08/2017 16:00
ENATREL	Línea (Bahía) NDE 138 L812	15/08/2017 08:00	16/08/2017 17:00
GREEN POWER	Línea (Bahía) SRS 138 L853	15/08/2017 08:00	16/08/2017 17:00
PCA-PCF	Unidad Generadora (Hidro) PCF 10.5 U1	15/08/2017 23:59	04/09/2017 23:59

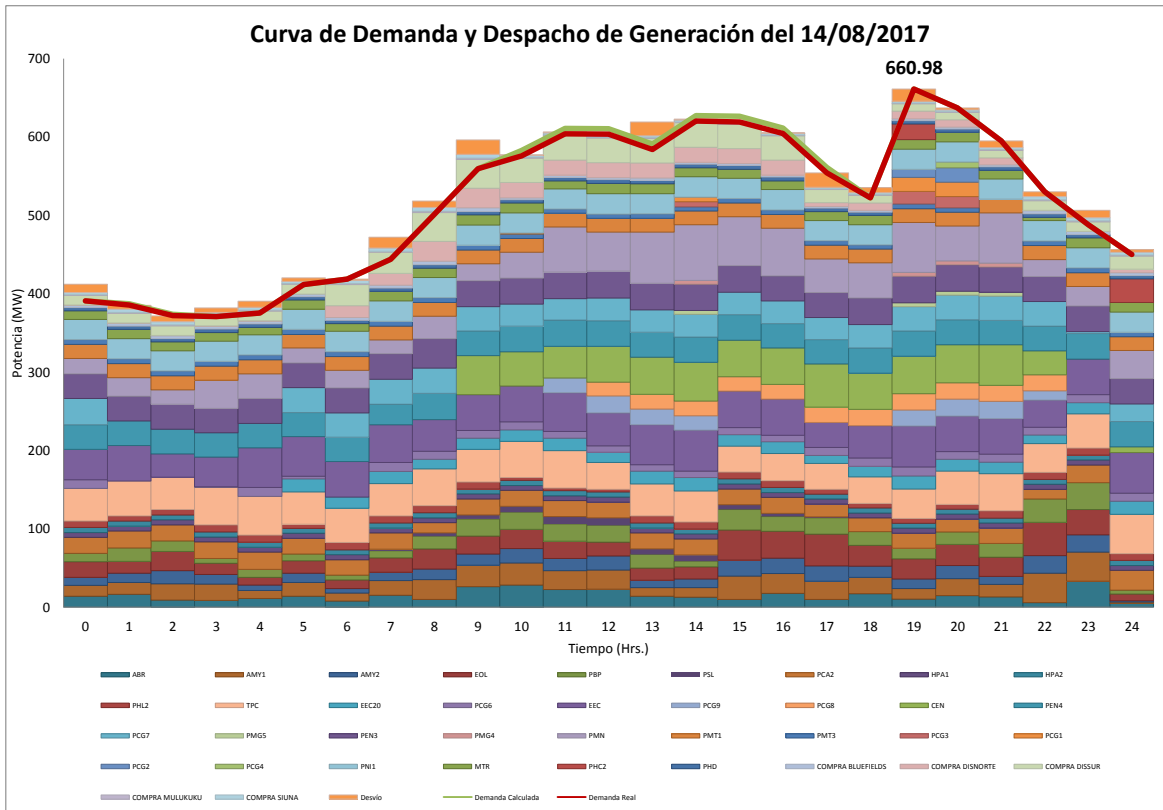
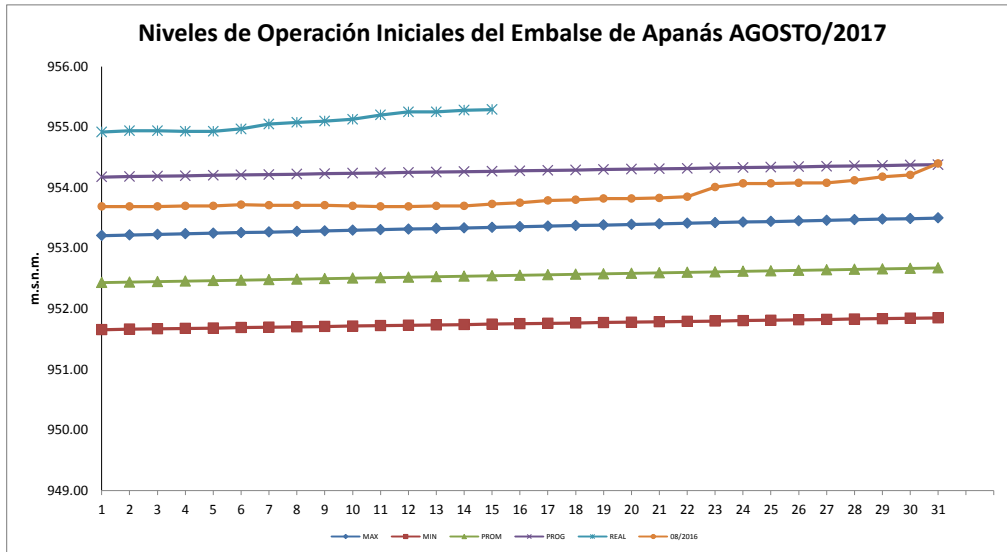
**Centro Nacional de Despacho de Carga (CNDC)**  
**Informe de Operación del SIN (Sistema Interconectado Nacional)**  
**Fecha: 14/08/2017**

Balance Hidrológico						
14/08/2017						
Embalse	APANAS	ASTURIAS	LA VIRGEN	PANTASMA	LARREYNAGA	UNIDAD
Generación Programada	528.000	N/A	0.000	282.890	183.960	MWh
Generación Real	473.580		0.000	302.600	177.270	MWh
Consumo de Agua	0.790	0.160	0.000	0.320	0.830	MMC
Nivel Programado	954.265	N/A				m.s.n.m
Nivel Inicial	955.280	927.920	439.900	844.580	682.030	m.s.n.m
Volumen Inicial	376.750	7.620	24.270	1.310	0.140	MMC
Aporte Natural	1.270	0.140	0.050	0.310	0.830	MMC
Extracción	0.000	0.000	0.000	0.000	0.000	MMC
Aporte Bombeo	0.160	N/A				MMC
Aporte Total	1.430	0.140	0.840	0.310	0.830	MMC
Nivel Final	955.290	927.910	439.970	844.520	682.060	m.s.n.m
Volumen Final	377.240	7.600	24.780	1.290	0.140	MMC
Derrame	0.000	0.000	0.260	0.000	0.000	MMC
ago-17						
Generación Programada	8,465.060	N/A	0.000	3,895.130	2,906.420	MWh
Generación Real	7,746.120		0.000	4,258.840	2,919.660	MWh
Consumo de Agua	12.860	2.360	0.000	4.550	13.610	MMC
Aporte Natural	31.860	3.870	0.000	5.420	13.620	MMC
Extracción	-0.420	0.000	-6.820	0.000	0.000	MMC
Aporte Bombeo	2.360	N/A				MMC
Aporte Total	33.800	3.870	6.030	5.420	13.620	MMC
Derrame	0.000	0.000	5.460	0.850	0.000	MMC
2017						
Generación Programada	179,530.570	N/A	0.000	27,597.610	58,838.750	MWh
Generación Real	160,273.420		0.000	35,041.220	59,537.620	MWh
Consumo de Agua	264.790	33.560	0.000	37.470	275.150	MMC
Aporte Natural	255.810	34.460	0.000	42.370	276.460	MMC
Extracción	-9.990	-0.010	-180.870	-1.610	-0.060	MMC
Aporte Bombeo	33.560	N/A				MMC
Aporte Total	279.390	34.450	83.930	40.760	276.400	MMC
Derrame	0.000	0.000	82.850	2.300	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)						
08/2017						08/2016
Día	MAX	MIN	PROM	PROG	REAL	HISTORICO
1	953.210	951.656	952.433	954.177	954.920	953.690
2	953.219	951.663	952.441	954.184	954.940	953.690
3	953.229	951.669	952.449	954.190	954.940	953.690
4	953.239	951.676	952.457	954.197	954.930	953.700
5	953.248	951.682	952.465	954.204	954.930	953.700
6	953.258	951.689	952.473	954.211	954.970	953.720
7	953.268	951.695	952.481	954.217	955.050	953.710
8	953.277	951.702	952.490	954.224	955.080	953.710
9	953.287	951.708	952.498	954.231	955.100	953.710
10	953.297	951.715	952.506	954.238	955.130	953.700
11	953.306	951.721	952.514	954.245	955.200	953.690
12	953.316	951.727	952.522	954.251	955.250	953.690
13	953.326	951.734	952.530	954.258	955.250	953.700
14	953.335	951.740	952.538	954.265	955.280	953.700
15	953.345	951.747	952.546	954.272	955.290	953.730
16	953.355	951.753	952.554	954.278		953.750
17	953.365	951.760	952.562	954.285		953.790
18	953.374	951.766	952.570	954.292		953.800
19	953.384	951.773	952.578	954.299		953.820
20	953.394	951.779	952.586	954.305		953.820
21	953.403	951.785	952.594	954.312		953.830
22	953.413	951.792	952.602	954.319		953.850
23	953.423	951.798	952.610	954.326		954.010
24	953.432	951.805	952.619	954.333		954.070
25	953.442	951.811	952.627	954.339		954.070
26	953.452	951.818	952.635	954.346		954.080
27	953.461	951.824	952.643	954.353		954.080
28	953.471	951.831	952.651	954.360		954.120
29	953.481	951.837	952.659	954.366		954.180
30	953.490	951.844	952.667	954.373		954.210
31	953.500	951.850	952.675	954.380		954.400



Hora	Notas
19:00	Demanda Máxima 660.98 MW.
10:00	PNS (Potencia No Suministrada): 7 MW. Daño equipo líneas de transmisión, Falla de equipo de línea de transmisión.