

**Centro Nacional de Despacho de Carga (CNDC)**  
**Informe de Operación del SIN (Sistema Interconectado Nacional)**  
 Fecha: 17/01/2018

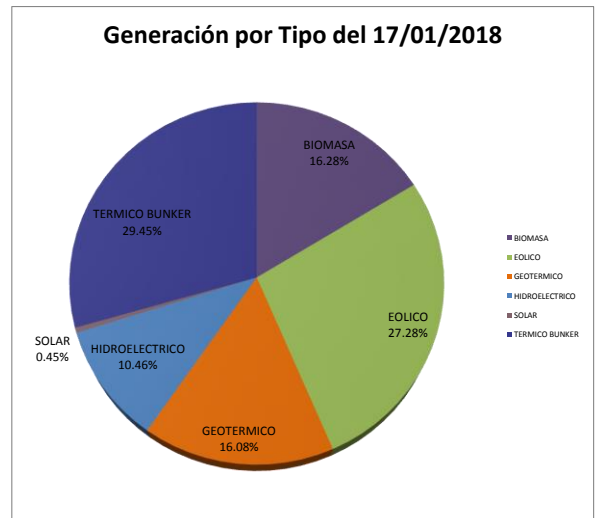
Resumen de Producción de Energía Neta (MWh) del 17/01/2018							
Agente	GGD	Real			Programado		
		Día	Mes	Año	Día	Mes	Año
ALBANISA	PCG1	0.0	251.8	251.8	0.0	136.2	136.2
	PCG2	0.0	97.2	97.2	0.0	107.4	107.4
	PCG3	0.0	231.2	231.2	0.0	311.5	311.5
	PCG4	0.0	57.6	57.6	0.0	11.6	11.6
	PCG5	0.0	37.1	37.1	0.0	0.0	0.0
	PCG6	109.3	1,827.4	1,827.4	124.6	3,390.1	3,390.1
	PCG7	278.5	5,694.2	5,694.2	392.0	8,335.6	8,335.6
	PCG8	35.5	1,168.0	1,168.0	72.2	2,148.8	2,148.8
	PCG9	158.5	4,128.1	4,128.1	308.7	5,535.5	5,535.5
	PCG	<b>581.7</b>	<b>13,492.7</b>	<b>13,492.7</b>	<b>897.5</b>	<b>19,976.6</b>	<b>19,976.6</b>
	PHC1	0.0	0.0	0.0	0.0	0.0	0.0
	PHC2	0.0	7.2	7.2	0.0	0.0	0.0
	PHC	<b>0.0</b>	<b>7.2</b>	<b>7.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
	ABR	532.0	7,774.5	7,774.5	758.5	16,987.0	16,987.0
	<b>TOTAL</b>	<b>1,113.8</b>	<b>21,274.4</b>	<b>21,274.4</b>	<b>1,655.9</b>	<b>36,963.6</b>	<b>36,963.6</b>
AMAYO 1	AMY1	712.9	10,151.4	10,151.4	714.8	22,307.0	22,307.0
AMAYO 2	AMY2	444.0	6,617.6	6,617.6	418.6	12,464.0	12,464.0
BLUE POWER	PBP	649.9	9,991.4	9,991.4	652.3	14,646.0	14,646.0
EOLO	EOL	905.2	12,613.4	12,613.4	852.7	25,031.0	25,031.0
EEC	EEC				890.1	17,671.6	17,671.6
	EEC20	824.0	10,974.8	10,974.8	168.4	5,316.1	5,316.1
	<b>TOTAL</b>	<b>824.0</b>	<b>10,974.8</b>	<b>10,974.8</b>	<b>1,058.5</b>	<b>22,987.7</b>	<b>22,987.7</b>
GEOSA	PN1	626.1	10,602.8	10,602.8	604.9	18,600.0	18,600.0
	PN2	0.0	0.0	0.0	0.0	0.0	0.0
	<b>TOTAL</b>	<b>626.1</b>	<b>10,602.8</b>	<b>10,602.8</b>	<b>604.9</b>	<b>18,600.0</b>	<b>18,600.0</b>
GESARSA	GSR	0.0	0.0	0.0	0.0	0.0	0.0
GREEN POWER	MTL	667.4	11,107.4	11,107.4	570.0	15,843.0	15,843.0
HIDRO PANTASMA	HPA1	116.4	3,267.7	3,267.7	100.2	1,577.5	1,577.5
	HPA2				0.0	1,577.5	1,577.5
	<b>TOTAL</b>	<b>116.4</b>	<b>3,267.7</b>	<b>3,267.7</b>	<b>100.2</b>	<b>3,155.0</b>	<b>3,155.0</b>
IHSA	PHD	52.4	1,083.9	1,083.9	0.0	1,457.8	1,457.8
	PCA1	382.7	5,918.7	5,918.7	432.0	13,092.0	13,092.0
	PCA2	402.6	6,192.1	6,192.1	432.0	13,092.0	13,092.0
PCA-PCF	PCA	<b>785.4</b>	<b>12,110.7</b>	<b>12,110.7</b>	<b>864.0</b>	<b>26,184.0</b>	<b>26,184.0</b>
	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	<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>TOTAL</b>	<b>785.4</b>	<b>12,110.7</b>	<b>12,110.7</b>	<b>864.0</b>	<b>26,184.0</b>	<b>26,184.0</b>
PENSA	PEN3	697.6	11,586.9	11,586.9	720.0	23,808.0	23,808.0
	PEN4	662.9	11,070.3	11,070.3	720.0	23,808.0	23,808.0
	<b>TOTAL</b>	<b>1,360.5</b>	<b>22,657.3</b>	<b>22,657.3</b>	<b>1,440.0</b>	<b>47,616.0</b>	<b>47,616.0</b>
PHL	PHL1	145.6	2,252.9	2,252.9	143.3	4,871.8	4,871.8
	PHL2	143.9	2,270.1	2,270.1	143.3	4,871.8	4,871.8
	<b>TOTAL</b>	<b>289.6</b>	<b>4,523.0</b>	<b>4,523.0</b>	<b>286.6</b>	<b>9,743.6</b>	<b>9,743.6</b>
AGSA	PMN	519.5	10,222.7	10,222.7	718.0	2,889.1	2,889.1
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	<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	0.0	127.9	127.9	0.0	288.5	288.5
	PMG5	0.0	132.1	132.1	0.0	422.9	422.9
	PMG	<b>0.0</b>	<b>260.0</b>	<b>260.0</b>	<b>0.0</b>	<b>711.5</b>	<b>711.5</b>
<b>TOTAL</b>	<b>0.0</b>	<b>260.0</b>	<b>260.0</b>	<b>0.0</b>	<b>711.5</b>	<b>711.5</b>	
CENSA	CEN	10.5	4,604.3	4,604.3	0.0	10,702.0	10,702.0
MONTE ROSA	MTR	671.5	11,791.6	11,791.6	638.4	20,088.0	20,088.0
NSEL	NSL	596.4	11,307.7	11,307.7	592.8	22,320.0	22,320.0
PMT	PMT1	0.0	0.0	0.0	0.0	13,853.3	13,853.3
	PMT2	472.0	7,724.0	7,724.0	456.0	0.0	0.0
	PMT3	79.7	1,747.3	1,747.3	60.0	4,002.7	4,002.7
	<b>TOTAL</b>	<b>551.7</b>	<b>9,471.3</b>	<b>9,471.3</b>	<b>516.0</b>	<b>17,856.0</b>	<b>17,856.0</b>
SOLARIS	PSL	53.5	1,063.1	1,063.1	48.4	22,320.0	22,320.0
TPC	TPC	940.2	13,031.6	13,031.6	1,077.5	21,646.0	21,646.0
<b>TOTAL</b>	<b>11,890.9</b>	<b>198,728.1</b>	<b>198,728.1</b>	<b>12,809.6</b>	<b>375,531.3</b>	<b>375,531.3</b>	

Resumen de Producción de Energía Neta (MWh) por Tipo del 17/01/2018						
Tipo Recurso	Real			Programado		
	Día	Mes	Año	Día	Mes	Año
BIOMASA	1,935.3	34,206.7	34,206.7	1,801.2	58,251.0	58,251.0
EOLICO	3,244.0	47,148.3	47,148.3	3,396.9	91,435.0	91,435.0
GEOTERMICO	1,912.2	32,128.6	32,128.6	1,956.0	65,472.0	65,472.0
HIDROELECTRICO	1,243.8	20,985.3	20,985.3	1,250.8	40,540.4	40,540.4
SOLAR	53.5	1,063.1	1,063.1	48.4	22,320.0	22,320.0
TERMICO BUNKER	3,502.1	63,188.8	63,188.8	4,356.3	97,512.9	97,512.9
TERMICO DIESEL	0.0	7.2	7.2	0.0	0.0	0.0
<b>TOTAL</b>	<b>11,890.9</b>	<b>198,728.1</b>	<b>198,728.1</b>	<b>12,809.6</b>	<b>375,531.3</b>	<b>375,531.3</b>

Balance de Energía Neta (MWh) del 17/01/2018			
Energía	Día	Mes	Año
Interconexión Neta	-21.0	-32.1	-32.1
AMY-L9030	218.4	4,541.5	4,541.5
TCPI-L9150	969.5	15,536.7	15,536.7
LNI-L9040	-316.6	-7,064.8	-7,064.8
SND-L9090	-367.3	-6,701.0	-6,701.0
<b>Generación</b>	<b>11,890.9</b>	<b>188,505.3</b>	<b>188,505.3</b>
<b>No Servida</b>	<b>82.2</b>	<b>405.8</b>	<b>405.8</b>
<b>Demanda Neta</b>	<b>12,477.1</b>	<b>195,223.5</b>	<b>195,223.5</b>

Comportamiento de la Demanda (MW) del 17/01/2018			
Potencia Máxima	Día	Mes	Año
Real	645.3	671.2	671.2
Fecha y Hora	17/01/2018 19:00	02/01/2018 19:00	02/01/2018 19:00
Calculada	645.3	671.2	671.2
Fecha y Hora	17/01/2018 19:00	02/01/2018 19:00	02/01/2018 19:00
Programado	680.1	693.1	733.9
Fecha y Hora	17/01/2018 19:00	01/2018	03/2018

Resumen del Mercado Eléctrico Regional (MER) del 17/01/2018			
Agente	Real		
	Día	Mes	Año
<b>Resumen de Ventas (MWh)</b>			
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Resumen de Compras (MWh)</b>			
BLUEFIELDS	77.00	1,044.23	1,044.23
CCN	20.00	228.00	228.00
DISNORTE	0.00	829.49	829.49
DISSUR	318.00	2,125.74	2,125.74
EEC20	0.00	462.13	462.13
MULUKUKU	32.20	418.20	418.20
SIUNA	77.80	1,047.17	1,047.17
ZFLP	0.00	189.60	189.60
<b>TOTAL</b>	<b>525.00</b>	<b>6,344.56</b>	<b>6,344.56</b>



Precio Promedio (US\$/Bbl.)		
Combustible	Día	Año
Bunker	63.5	55.9
Diesel	78.6	78.1

Disponibilidad y Costo Variable Semanal hasta 01/18/2018 07:00			
GGD	Instalada	Real	Costo
	MW		US\$/MWh
ABR	39.6	33.6	0.0
AMY1	39.9	32.2	0.0
AMY2	23.1	18.6	0.0
CEN	57.0	51.0	108.5
EEC	51.4	51.4	107.5
EEC20	18.5	18.5	103.2
EOL	44.0	37.7	0.0
GSR	5.4	0.0	107.5
HPA1	7.2	6.5	101.4
HPA2	7.2	0.0	101.4
MTL	38.0	25.0	44.7
MTR	35.0	28.0	113.2
NSL	30.0	26.0	121.7
PBP	39.6	28.2	0.0
PCA1	25.0	24.0	92.3
PCA2	25.0	24.0	92.3
PCF1	25.0	0.0	0.0
PCF2	25.0	0.0	0.0
PCG1	19.2	19.2	115.9
PCG2	19.2	19.2	116.3
PCG3	19.2	17.1	115.4
PCG4	19.2	19.2	118.0
PCG5	18.6	16.2	118.6
PCG6	12.9	9.6	104.4
PCG7	38.0	29.6	110.2
PCG8	25.3	19.5	108.1
PCG9	45.3	35.0	107.6
PCHN	15.0		
PEN3	36.0	30.0	98.6
PEN4	36.0	30.0	92.9
PHC1	15.0	13.3	160.0
PHC2	45.0	39.5	160.0
PHL1	8.5	8.5	92.3
PHL2	8.5	8.5	92.3
PLB1	23.0	0.0	0.0
PLB2	35.0	0.0	0.0
PMG3	42.0	0.0	0.0
PMG4	5.5	5.2	112.0
PMG5	5.5	5.2	110.5
PMN	75.0	70.0	112.2
PMT1	30.0	0.0	97.8
PMT2	30.0	19.0	97.8
PMT3	7.0	0.0	97.8
PNI1	50.0	50.0	120.8
PNI2	50.0	50.0	125.0
PSL	12.4	1.5	0.0
TPC	50.9	50.9	100.7
<b>TOTAL</b>	<b>1,333.0</b>	<b>970.6</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 17/01/2018								
GGD	Consumo*			Recibido			Inventario	Precio (US\$/Bbl.)**
	Día	Mes	Año	Día	Mes	Año		
<b>BUNKER</b>	<b>213.4</b>	<b>3,970.3</b>	<b>3,970.3</b>	<b>260.7</b>	<b>3,406.6</b>	<b>3,406.6</b>	<b>8,967.1</b>	<b>56.5</b>
CEN	1.3	293.9	293.9	23.2	317.3	317.3	946.6	57.1
EEC								63.5
EEC20	41.5	649.3	649.3	0.0	479.1	479.1	2,798.7	63.5
GSR	0.0	0.0	0.0	0.0	0.0	0.0	64.6	63.5
PCG1	0.0	12.1	12.1	0.0	11.6	11.6	233.0	65.7
PCG2	0.0	4.8	4.8	0.0	0.0	0.0	223.4	66.1
PCG3	0.0	11.9	11.9	0.0	0.0	0.0	306.3	65.5
PCG4	0.0	2.5	2.5					66.1
PCG5	0.0	1.4	1.4	0.0	0.0	0.0	227.5	66.1
PCG6	6.9	111.4	111.4					64.5
PCG7	17.4	356.5	356.5	52.1	475.2	475.2	640.5	64.5
PCG8	0.5	65.7	65.7	0.0	58.0	58.0	347.5	63.7
PCG9	9.0	220.4	220.4	17.4	209.6	209.6	451.1	64.3
<b>PCG</b>	<b>33.8</b>	<b>786.6</b>	<b>786.6</b>	<b>69.5</b>	<b>754.3</b>	<b>754.3</b>	<b>2,429.4</b>	<b>65.1</b>
PMG3	0.0	0.0	0.0	0.0	0.0	0.0		61.9
PMG4	0.0	7.8	7.8	0.0	0.0	0.0	447.4	62.8
PMG5	0.0	8.3	8.3	0.0	0.0	0.0		62.8
<b>PMG</b>	<b>0.0</b>	<b>16.1</b>	<b>16.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>447.4</b>	<b>62.5</b>
PNI1	49.4	835.7	835.7					63.4
PNI2	0.0	0.0	0.0	48.0	858.0	858.0	337.4	63.4
<b>PNI</b>	<b>49.4</b>	<b>835.7</b>	<b>835.7</b>	<b>48.0</b>	<b>858.0</b>	<b>858.0</b>	<b>337.4</b>	<b>63.4</b>
TPC	57.8	800.5	800.5	120.0	904.0	904.0	595.8	56.5
PMN	29.8	588.0	588.0	0.0	94.0	94.0	1,347.3	65.5
<b>DIESEL</b>	<b>5.3</b>	<b>81.6</b>	<b>81.6</b>	<b>0.0</b>	<b>89.0</b>	<b>89.0</b>	<b>402.3</b>	<b>78.6</b>
PCG1	0.0	4.3	4.3	0.0	14.8	14.8	39.9	78.6
PCG2	0.0	2.2	2.2	0.0	0.0	0.0	25.0	78.6
PCG3	0.0	3.3	3.3	0.0	0.0	0.0	13.1	78.6
PCG4	0.0	1.5	1.5					78.6
PCG5	0.0	1.2	1.2	0.0	0.0	0.0	20.3	78.6
PCG6	0.4	6.5	6.5					78.6
PCG7	1.0	19.4	19.4					78.6
PCG8	2.0	9.6	9.6	0.0	7.4	7.4	28.4	78.6
PCG9	1.5	22.3	22.3	0.0	22.2	22.2	31.2	78.6
<b>PCG</b>	<b>4.9</b>	<b>70.3</b>	<b>70.3</b>	<b>0.0</b>	<b>74.2</b>	<b>74.2</b>	<b>187.0</b>	<b>78.6</b>
PHC2	0.0	4.0	4.0	0.0	0.0	0.0	108.6	78.6
PHC1	0.0	0.0	0.0					78.6
<b>PHC</b>	<b>0.0</b>	<b>4.0</b>	<b>4.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>34.6</b>	<b>78.6</b>
PLB1	0.0	0.0	0.0					78.6
PLB2	0.0	0.0	0.0					78.6
<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>34.6</b>	<b>78.6</b>
PMG4	0.0	0.0	0.0	0.0	0.0	0.0	3.8	78.6
<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>78.6</b>
PMN	0.4	7.3	7.3	0.0	14.8	14.8	68.2	78.6

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

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

Información de Despejes del 18/01/2018			
Agente	Lugar de Trabajo	Desde	Hasta
PMT	Unidad Generadora (Termoeléctrica) PMT 4.16 U3	18/01/2018 07:00	18/01/2018 20:00
ENATREL	Línea (Bahía) EVJ 69 L609	18/01/2018 08:00	19/01/2018 16:00
TPC	Unidad Generadora (Termoeléctrica) PTP 13.8 U2	18/01/2018 22:10	18/01/2018 23:00
TPC	Unidad Generadora (Termoeléctrica) PTP 13.8 U4	18/01/2018 23:00	18/01/2018 23:59

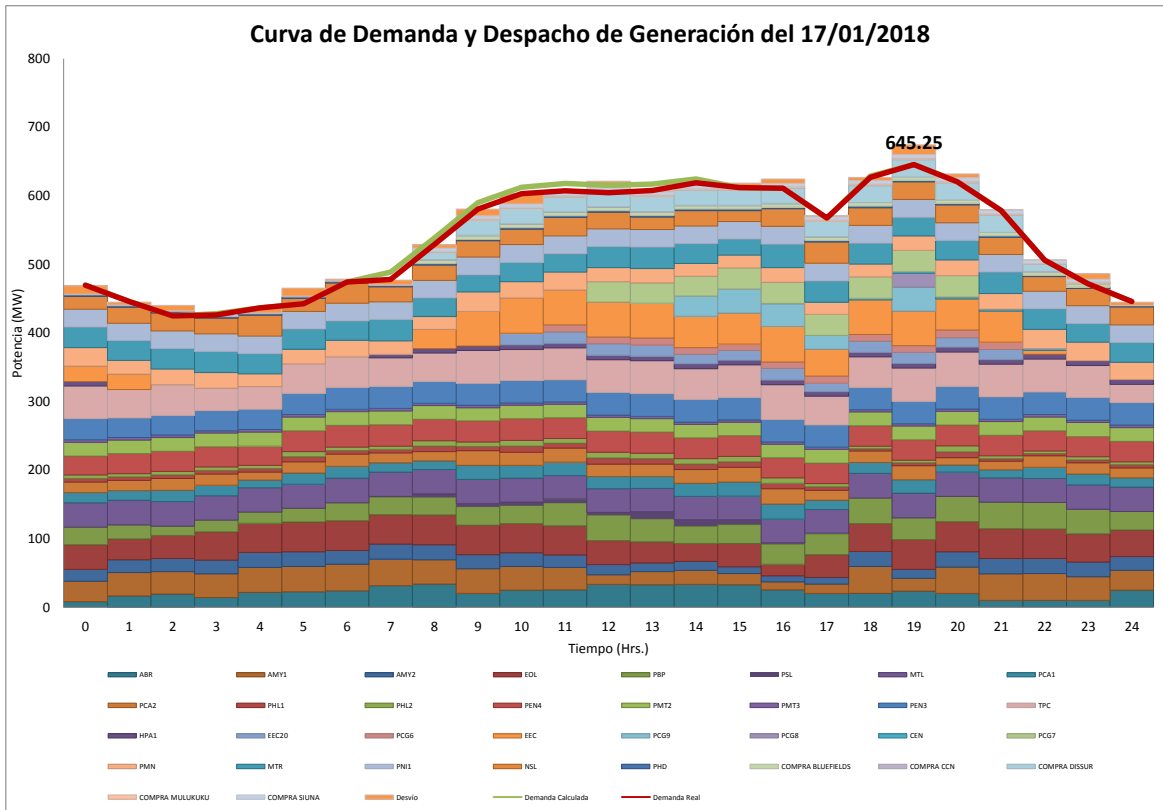
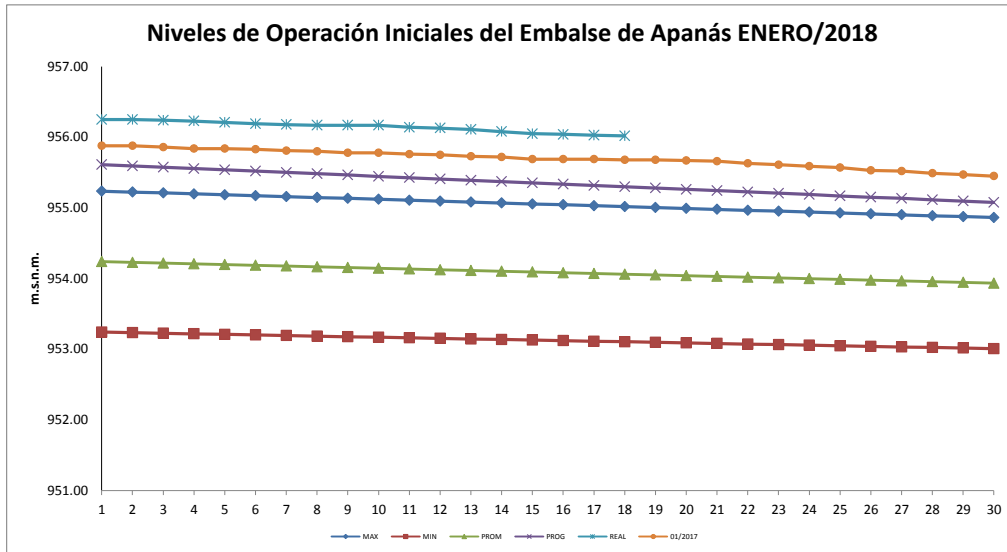
**Centro Nacional de Despacho de Carga (CNDC)**  
**Informe de Operación del SIN (Sistema Interconectado Nacional)**  
**Fecha: 17/01/2018**

Balance Hidrológico						
17/01/2018						
Embalse	APANAS	ASTURIAS	LA VIRGEN	PANTASMA	LARREYNAGA	UNIDAD
Generación Programada	864.000	N/A	0.000	100.190	286.620	MWh
Generación Real	785.350		0.000	116.430	289.560	MWh
Consumo de Agua	1.300	0.140	0.000	0.120	1.350	MMC
Volumen no Turbinado	0.000	N/A				MMC
Nivel Programado	955.317	N/A				m.s.n.m
Nivel Inicial	956.030	928.180	439.980	841.710	682.040	m.s.n.m
Volumen Inicial	413.580	8.240	24.850	0.260	0.140	MMC
Aporte Natural	0.810	0.120	0.000	0.130	1.360	MMC
Extracción	0.000	0.000	-1.140	0.000	0.000	MMC
Aporte Bombeo	0.140	N/A				MMC
Aporte Total	0.950	0.120	0.170	0.130	1.360	MMC
Nivel Final	956.020	928.170	439.950	841.750	682.250	m.s.n.m
Volumen Final	413.080	8.220	24.630	0.270	0.140	MMC
Derrame	0.000	0.000	0.380	0.000	0.000	MMC
ene-18						
Generación Programada	13,424.000	N/A	0.000	2,670.130	4,532.150	MWh
Generación Real	12,110.720		0.000	3,267.740	4,522.970	MWh
Consumo de Agua	20.100	2.980	0.000	3.490	21.080	MMC
Volumen no Turbinado	0.000	N/A				MMC
Aporte Natural	9.560	2.480	0.000	2.690	21.100	MMC
Extracción	-0.820	0.000	-14.010	-0.140	0.000	MMC
Aporte Bombeo	2.980	N/A				MMC
Aporte Total	11.720	2.480	6.090	2.550	21.100	MMC
Derrame	0.000	0.000	6.160	0.000	0.000	MMC
2018						
Generación Programada	13,424.000	N/A	0.000	2,670.130	4,532.150	MWh
Generación Real	12,110.720		0.000	3,267.740	4,522.970	MWh
Consumo de Agua	20.100	2.980	0.000	3.490	21.080	MMC
Volumen no Turbinado	0.000	N/A				MMC
Aporte Natural	9.560	2.480	0.000	2.690	21.100	MMC
Extracción	-0.820	0.000	-14.010	-0.140	0.000	MMC
Aporte Bombeo	2.980	N/A				MMC
Aporte Total	11.720	2.480	6.090	2.550	21.100	MMC
Derrame	0.000	0.000	6.160	0.000	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)						
01/2018						01/2017
Día	MAX	MIN	PROM	PROG	REAL	HISTORICO
1	955.237	953.242	954.240	955.612	956.250	955.880
2	955.224	953.234	954.229	955.593	956.250	955.880
3	955.211	953.226	954.219	955.575	956.240	955.860
4	955.198	953.218	954.208	955.556	956.230	955.840
5	955.185	953.210	954.198	955.538	956.210	955.840
6	955.173	953.202	954.187	955.520	956.190	955.830
7	955.160	953.194	954.177	955.501	956.180	955.810
8	955.147	953.185	954.166	955.483	956.170	955.800
9	955.134	953.177	954.156	955.465	956.170	955.780
10	955.121	953.169	954.145	955.446	956.170	955.780
11	955.108	953.161	954.135	955.428	956.140	955.760
12	955.095	953.153	954.124	955.409	956.130	955.750
13	955.082	953.145	954.114	955.391	956.110	955.730
14	955.069	953.137	954.103	955.373	956.080	955.720
15	955.056	953.129	954.093	955.354	956.050	955.690
16	955.044	953.121	954.082	955.336	956.040	955.690
17	955.031	953.113	954.072	955.317	956.030	955.690
18	955.018	953.105	954.061	955.299	956.020	955.680
19	955.005	953.097	954.051	955.281		955.680
20	954.992	953.089	954.040	955.262		955.670
21	954.979	953.081	954.030	955.244		955.660
22	954.966	953.073	954.019	955.225		955.630
23	954.953	953.065	954.009	955.207		955.610
24	954.940	953.056	953.998	955.189		955.590
25	954.927	953.048	953.988	955.170		955.570
26	954.915	953.040	953.977	955.152		955.530
27	954.902	953.032	953.967	955.134		955.520
28	954.889	953.024	953.956	955.115		955.490
29	954.876	953.016	953.946	955.097		955.470
30	954.863	953.008	953.935	955.078		955.450
31	954.85	953.00	953.93	955.06		955.43



Hora	Notas
19:00	Demanda Máxima 645.25 MW.
11:00	PNS (Potencia No Suministrada): 10.90 MW. Falla de equipo de línea de transmisión, Arbol y/o rama.