



Tomo II
Anexo 3

**Salidas del Caso REGMHTTLA11:
Medio Hidrotérmico con Carbón, Eólico y Gas
Natural Licuado**

Cuadro N° A2.1: Capacidad Firme Caso REGMHTTLA11

CAPACIDAD FIRME (MW) - HIDROTÉRMIICO CONSIDERANDO CARBÓN, ENERGÍA EÓLICA Y GNL/DEM.MEDIA

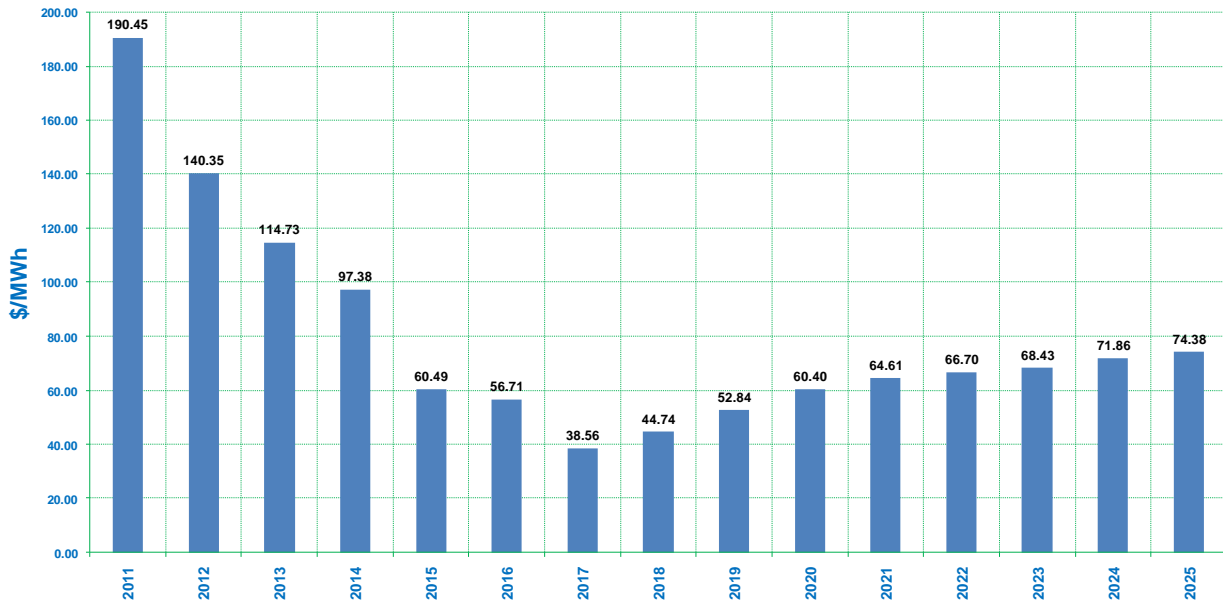
Caso REGMHTTLA11	Capacidad Instalada	Fact. Disp. o Pot. Firme	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Potencia Firme Instalada			1,357.64	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31	1,335.31
ENEL FORTUNA	300.00		284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02
Fortuna	300.00	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02	284.02
AES PANAMA	481.96		193.88	306.55	306.55	306.55	306.55	306.55	306.55	306.55	306.55	306.55	306.55	306.55	306.55	306.55	306.55
Bayano	260.00	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12	160.12
La Estrella	47.20	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13	16.13
Los Valles	54.76	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63
Estí	120.00	112.67	0	112.67	112.67	112.67	112.67	112.67	112.67	112.67	112.67	112.67	112.67	112.67	112.67	112.67	112.67
ISTMUS HYDROPOWER, S.A.	10.00		2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49
Concepcion	10.00	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49
CALDERA ENERGY CORP.	20.00		3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
Mendre	20.00	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
Hidro Boqueron S.A	3.43		0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Macano	3.43	0.9	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Paso Ancho Hydro Power	6.78		4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
Paso Ancho	6.78	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
Hidro Candela	0.54		0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Candela	0.54	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
ESEPSA	22.07		7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31
La Yeguada	6.60	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Macho de Monte	2.50	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Dolega	3.12	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Los Algarrobos	9.86	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
HIDRO PMA	4.30		0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Anton I	1.40	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Anton II	1.40	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Anton II	1.50	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
AUTORIDAD DEL CANAL DE PANAMA (ACP)	175.00		148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28
ACP	175.00	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28	148.28
BLM CORP.	280.00		197.97	197.97	197.97	197.97	197.97	197.97	197.97	197.97	197.97	197.97	197.97	197.97	197.97	197.97	197.97
Bahia las Minas 2	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahia las Minas 3	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahia las Minas 4	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahia las Minas Carbón	120.00	108.00	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Ciclo Combinado BLM	160.00	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97	89.97
TURBINAS DE GAS PANAMA (EGESA)	142.80		135	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cerro Azul	60.00	60.00	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Charco Azul	40.00	40.00	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turb. Gas 1	21.40	18.00	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turb. Gas 2	21.40	17.00	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COPESA	46.50		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Copesa	46.50	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PAN-AM GENERATING	96.00		96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Pan Am	96.00	96.00	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
Pedregal Power Company	55.40		53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50
Pacorá	55.40	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50	53.50
ESEPSA	10.00		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Capita	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
Chitre	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
TERMICA DEL CARIBE, S.A.	50.40		36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56
El Giral	50.40	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56	36.56
GENERADORA DEL ATLANTICO, S.A.	150.00		105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64
T. Colon	150.00	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64	105.64
GDF SUEZ ENERGY	87.00		77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
T. Cativa	87.00	77.00	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77

Cuadro N° A2.1: Capacidad Firme Caso REGMHTTLA11 (Continuación)

Caso REGMHTTLA11	Capacidad	Pot. Firme	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
PROYECTOS HIDROELECTRICOS (FUTUROS)	1286.12	286	349	485	527	538	700	700	700	700	700	700	700	700	700	700	700
Lorena	33.80	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62	30.62
Los Planetas 1	4.50	0.91	0.00	0.00	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Pedregalito	20.00	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
Bajo de Mina	56.00	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07	20.07
Chan I	222.46	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33	175.33
Pedregalito 2	13.00	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22	3.22
Prudencia	56.00	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09	50.09
El Fraile	5.47	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Baitún	88.70	31.09		31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09	31.09
La Huaca	5.05	0.17		0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Las Perlas Norte	10.00	2.46		2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46
Gualaca	25.20	23.04		23.04	23.04	23.04	23.04	23.04	23.04	23.04	23.04	23.04	23.04	23.04	23.04	23.04	23.04
Las Perlas Sur	10.00	2.46		2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46
Mendre II	8.00	1.56		1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
Cochea	12.50	2.20		2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
Bajo de Totuma	5.00	1.50		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Caldera	4.00	1.20		1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
RP-490	9.95	2.98		2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
Bajo Frio	56.00	16.51		16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51	16.51
Monte Lirio	51.60	32.38		32.38	32.38	32.38	32.38	32.38	32.38	32.38	32.38	32.38	32.38	32.38	32.38	32.38	32.38
Pando	32.00	25.13		25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13	25.13
Tizingal	4.64	2.55		2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
El Sindigo	10.00	3.00		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
San Andres	9.00	2.54		2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54	2.54
Reminio Rojas	8.60	2.58		2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58
Bonyic	31.30	22.22		22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22	22.22
El Alto	68.00	22.14		22.14	22.14	22.14	22.14	22.14	22.14	22.14	22.14	22.14	22.14	22.14	22.14	22.14	22.14
Cañazas	5.94	0.68		0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
La Laguna	9.30	2.79		2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79	2.79
Las Cruces	9.17	2.75		2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
Los Estrechos	10.00	3.00		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Ojo de Agua	6.46	1.94		1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94
San Bartolo	15.25	4.57		4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57
SM 82	25.60	7.68		7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68	7.68
Los Planetas 2	3.73	1.12		1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
San Lorenzo	8.40	1.33		1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33
Burica	50.00	15.00		15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Potrerillo	4.17	1.25		1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
Barro Blanco	28.84	10.92		10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92	10.92
Tabasará II	34.50	11.90		11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90	11.90
Chan II	214.00	150.38		150.38	150.38	150.38	150.38	150.38	150.38	150.38	150.38	150.38	150.38	150.38	150.38	150.38	150.38
PROYECTOS TERMOELECTRICOS (FUTUROS)	1050.00	0.00	0.00	0.00	0.00	170.00	170.00	170.00	382.50	382.50	595.00	595.00	807.50	807.50	807.50	892.50	
CC GNL 250a	250.00	0.85	0	0	0	0	0	0	213	213	213	213	213	213	213	213	
CC GNL 250b	250.00	0.85	0	0	0	0	0	0	0	0	213	213	213	213	213	213	
CC GNL 250c	250.00	0.85	0	0	0	0	0	0	0	0	0	213	213	213	213	213	
CC GNL 200	200.00	0.85	0	0	0	0	170	170	170	170	170	170	170	170	170	170	
CC GNL 100	100.00	0.85	0	0	0	0	0	0	0	0	0	0	0	0	0	85	
PROYECTOS EOLICOS (FUTUROS)	390.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eolico I	150.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eolico II	40.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eolico III	80.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eolico IV	120.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
POTENCIA FIRME		1644	1684	1820	1862	2043	2205	2205	2418	2418	2630	2630	2843	2843	2843	2843	
Demanda Máxima de Generación		1267	1324	1406	1494	1585	1678	1775	1880	1982	2102	2212	2327	2450	2589	2730	
BALANCE		387	361	414	368	458	528	430	538	436	529	419	516	393	254	198	
RESERVA		30.81%	27.26%	29.46%	24.64%	28.93%	31.45%	24.24%	28.59%	21.99%	25.16%	18.92%	22.17%	16.02%	9.80%	7.26%	

CUADRO N° A2.2: Costos Marginales del Caso REGMHTTLA11

COSTO MARGINAL DE DEMANDA													
\$/MWh													
Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Prom
2011	186.51	189.66	236.98	206.95	207.72	201.30	192.45	190.47	176.04	174.78	160.27	162.23	190.45
2012	183.26	198.20	208.83	212.35	206.65	156.27	119.84	103.55	71.82	68.76	71.14	83.55	140.35
2013	101.40	136.35	181.46	209.83	183.17	132.72	103.94	82.25	51.88	56.73	62.02	75.04	114.73
2014	91.63	120.80	174.21	213.16	192.81	91.25	73.25	62.02	43.07	33.83	31.56	40.95	97.38
2015	56.35	65.51	106.63	129.61	84.33	57.50	50.83	46.34	27.80	21.29	27.99	51.74	60.49
2016	61.87	69.60	103.69	137.60	90.40	57.06	42.20	37.85	24.19	20.89	22.09	13.15	56.71
2017	32.48	49.59	83.00	104.45	78.74	35.42	32.08	22.98	4.65	2.70	5.41	11.25	38.56
2018	38.75	59.36	68.16	81.19	64.50	60.13	48.89	39.49	14.87	22.66	16.22	22.63	44.74
2019	44.41	62.99	75.21	89.24	72.88	59.58	52.35	45.53	30.69	25.88	27.12	48.21	52.84
2020	63.31	68.26	71.51	72.83	66.02	63.95	58.23	59.61	50.19	48.19	49.72	53.03	60.40
2021	66.19	67.86	70.75	75.75	69.30	67.33	63.54	63.73	56.47	56.15	56.39	61.88	64.61
2022	68.17	69.39	71.06	72.49	71.47	69.38	68.28	68.40	63.86	61.24	52.32	64.32	66.70
2023	70.12	71.55	73.31	76.36	74.25	72.11	70.80	69.93	63.32	61.20	52.64	65.56	68.43
2024	70.45	72.51	75.57	79.66	77.10	73.21	72.54	72.08	69.11	67.25	63.82	68.98	71.86
2025	73.37	74.86	77.66	80.32	79.09	75.75	74.62	75.03	73.17	71.27	67.68	69.75	74.38
Prom	80.55	91.77	111.87	122.79	107.90	84.86	74.92	69.28	54.74	52.85	51.09	59.49	

**COSTO MARGINAL DE DEMANDA
REGMHTTLA11**


CUADRO N° A2.3: Informe Final de Generación del Caso REGMHTTLA11

REGMHTTLA11															
Informe Final de Generación															
(GWH)															
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
PA_Fortuna	1639	1528	1563	1638	1564	1497	1526	1536	1463	1493	1520	1416	1601	1442	1558
PA_Bayano	644	758	641	672	491	603	541	601	575	506	607	633	758	656	757
PA_Esti	0	493	758	748	738	735	729	736	722	728	734	743	763	749	761
PA_Valles	316	323	323	315	319	316	314	314	314	316	312	315	321	320	316
PA_Estrella	285	266	267	281	263	259	250	259	259	260	257	259	265	263	265
PA_Mendre	100	113	113	111	111	111	108	110	111	111	111	112	113	114	111
PA_Concepcio	58	46	62	61	61	61	61	60	61	61	61	61	61	61	61
PA_Algarrobo	43	44	43	43	43	43	43	43	43	43	43	43	43	44	42
PA_PasoAncho	40	40	40	39	39	39	39	39	38	39	39	39	39	39	39
PA_Yeguada	24	24	24	24	24	23	24	24	24	24	24	23	24	24	24
PA_Macano	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
PA_Dolega	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
PA_Mmonte	13	14	14	14	14	14	14	14	14	14	14	14	14	14	14
PA_AntonI	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PA_AntonII	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PA_AntonIII	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
PA_Lorena	195	251	250	250	249	248	249	249	248	248	250	250	251	251	251
PA_Planetas1	22	25	24	24	24	24	24	24	24	24	24	24	24	24	24
PA_Predregal	89	104	104	103	105	103	104	104	103	104	104	103	105	105	104
PA_Bjo Mina	116	221	220	220	219	219	219	219	219	220	221	220	221	221	221
PA_Chan I	463	1075	1067	1040	1063	1095	1580	1591	1570	1579	1592	1590	1611	1598	1615
PA_MinChan I	34	82	82	82	82	82	82	82	82	82	82	82	82	82	82
PA_Pedreg2	31	69	70	68	70	69	70	69	69	69	69	69	70	70	69
PA_Prudencia	81	294	290	289	289	282	289	285	285	286	285	284	292	289	291
PA_El Fraile	3	29	29	28	28	28	29	28	28	28	28	28	29	29	28
PA_Baitun	0	387	462	462	462	462	462	462	462	462	462	462	462	462	462
PA_LaHuaca	0	25	29	29	29	28	29	28	29	29	29	28	29	29	28
PA_Perlas N	0	50	62	62	61	61	62	61	61	62	61	61	62	62	61
PA_Gualaca	0	116	188	188	186	184	185	185	183	184	188	187	191	189	189
PA_Perlas S	0	45	62	62	61	61	62	61	61	62	61	61	62	62	61
PA_Mendre2	0	39	56	56	56	56	56	56	55	55	56	56	56	57	55
PA_Cochea	0	18	98	97	97	97	97	97	97	97	97	97	98	98	97
PA_B_Totuma	0	0	33	33	33	33	33	33	32	33	33	33	33	33	33
PA_Caldera	0	0	19	19	19	18	14	18	19	19	19	19	19	19	19
PA_RP490	0	0	53	55	56	56	56	55	55	56	56	55	56	56	55
PA_Bajofrio	0	0	222	258	262	254	259	256	258	254	258	257	259	253	261
PA_Pando	0	0	154	212	211	212	211	210	209	211	210	211	214	211	212
PA_Mon Lirio	0	0	191	225	226	226	227	224	224	225	222	223	227	225	226
PA_Tizingal	0	0	21	33	33	33	31	33	33	33	33	33	33	33	33
PA_Sindigo	0	0	36	56	56	57	56	56	56	57	56	57	57	58	55
PA_SanAndres	0	0	25	41	41	41	42	40	41	41	40	41	42	42	42
PA_RegioR.	0	0	15	45	45	46	46	45	45	46	45	45	46	46	45
PA_Bonyic	0	0	16	173	181	177	177	175	173	174	174	173	176	175	177
PA_El Alto	0	0	25	315	315	315	316	312	312	317	312	310	322	320	318
PA_Cañazas	0	0	0	31	31	31	31	30	31	31	31	31	31	31	31
PA_Laguna	0	0	0	49	49	49	50	48	49	49	48	49	50	50	49
PA_LasCruces	0	0	0	48	48	47	49	47	48	48	48	48	48	48	48
PA_Estrechos	0	0	0	42	42	41	42	41	41	42	41	42	43	42	42
PA_Bartolo	0	0	0	79	79	78	79	77	78	78	78	79	80	79	79
PA_OjodeAgua	0	0	0	36	36	36	37	35	35	36	36	36	37	37	36
PA_SM 82	0	0	0	88	101	99	101	97	97	100	98	100	103	102	102
PA_Planetas2	0	0	0	10	21	21	21	21	21	21	21	21	21	21	21
PA_Slorenzo	0	0	0	26	45	45	45	44	45	45	44	45	45	45	45
PA_Burica	0	0	0	27	285	285	286	283	283	289	284	283	286	289	285
PA_Potrancil	0	0	0	2	23	23	23	23	23	23	23	23	23	23	23
PA_B_Blanco	0	0	0	0	105	102	98	103	103	105	103	104	105	105	104
PA_Tab II	0	0	0	0	0	173	203	201	202	205	204	201	205	203	204
PA_Chan II	0	0	0	0	0	55	1041	1099	1078	1077	1127	1045	1135	1104	1099
BUNKER	1633	514	169	144	3	6	1	0	0	0	0	0	0	0	0
DIESEL L.	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CARBON	623	795	650	434	128	140	77	33	51	7	11	1	1	8	7
GAS NAT	0	0	0	0	1855	1860	1302	1883	2092	2848	3397	4026	4217	5731	6099
ACP1	527	236	497	345	102	99	50	9	30	2	3	0	1	1	0
ACP2	324	127	278	211	43	43	15	1	5	1	1	0	0	0	0
ACP3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACP4	283	86	184	152	20	16	4	0	0	0	0	0	0	0	0
EOLICO	0	0	635	634	764	753	953	1096	1643	1661	1682	1676	1665	1675	1659
Total Hidro	4244	6548	7821	8960	9183	9422	10860	11009	10860	10867	11046	10894	11413	11072	11305
Total Term.	3487	1757	2413	1920	2916	2917	2403	3022	3820	4519	5094	5703	5883	7414	7775
Total Gener	7732	8305	10235	10880	12098	12339	13263	14030	14680	15386	16141	16597	17297	18486	19081
Import.	142	380	90	75	10	41	18	14	27	33	31	20	95	71	122
Export.	56	555	1670	1749	2317	1981	2288	2325	2322	2251	2280	1988	1928	2181	1897
Perdidas	4	11	3	2	0	1	1	0	1	1	1	1	3	2	4
Demanda	7813	8119	8652	9203	9791	10397	11033	11719	12385	13167	13891	14646	15460	16374	17302
Deficit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0