

Plan de Expansión del Sistema Interconectado
Nacional
2019 – 2033

Tomo II
Plan Indicativo de Generación

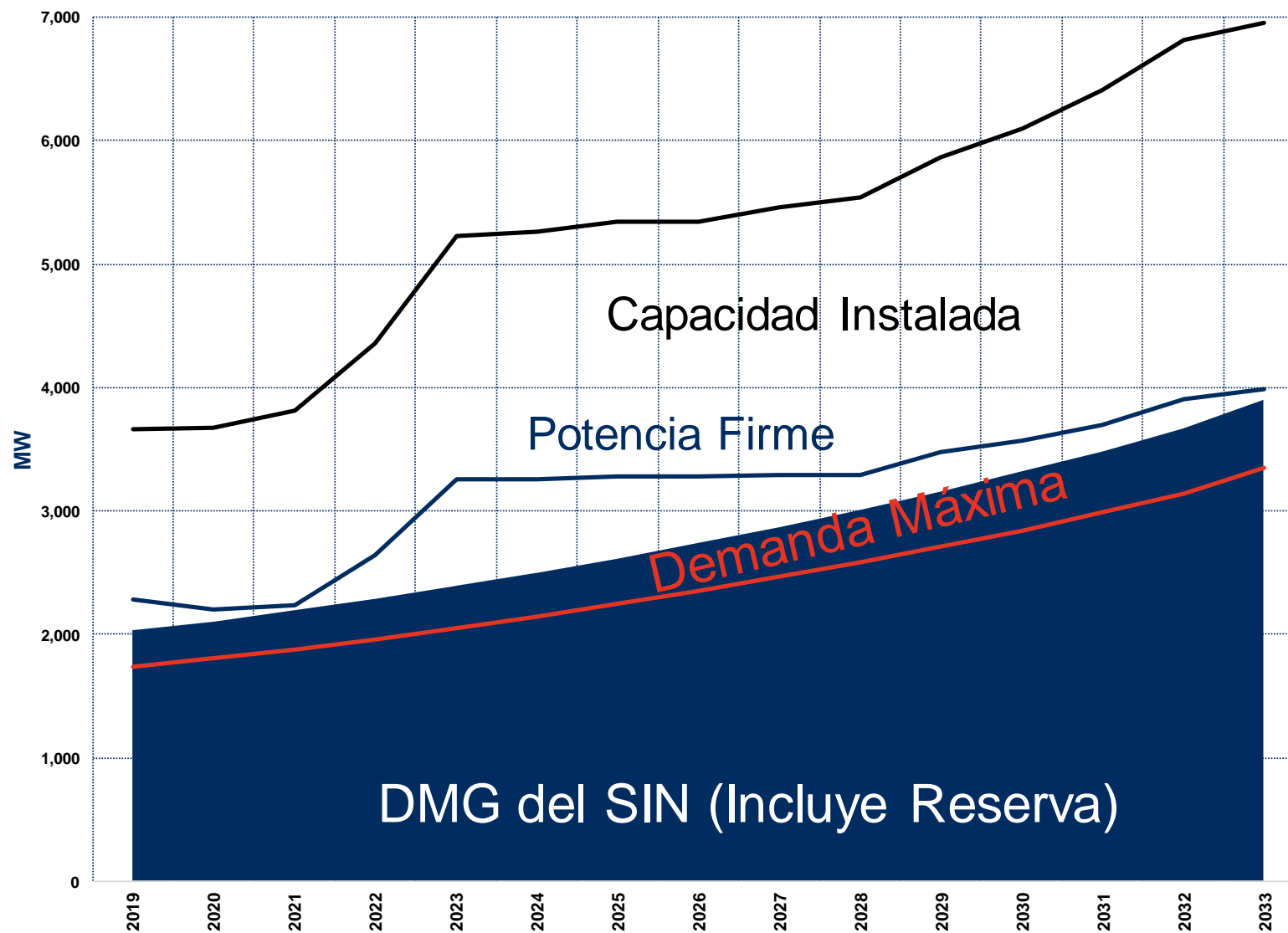
Tomo II - Anexo 4

Salidas del Escenario Alternativo III:

Escenario Demanda Alta considerando:

En este escenario, se utiliza el pronóstico de demanda alta, calculado con el ME – SiProDE, presente en el Tomo I – Estudios Básicos 2019-2033.

Gráfico N° A4.1 Balance de Potencia vs Demanda del Alternativo III



Cuadro N° A4.1 Capacidad Firme Escenario Alternativo III

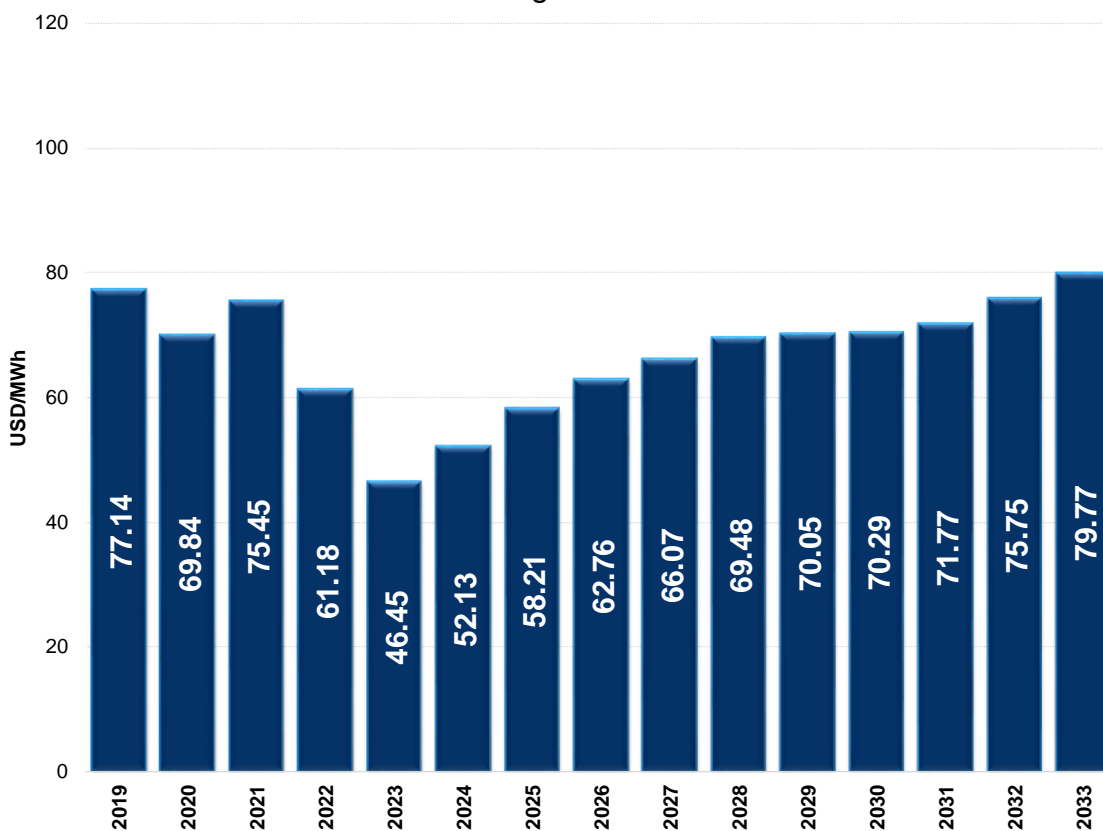
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Cuadro N° A4.1 Capacidad Firme Escenario Alternativo III (Continuación)

Proyectos Hidroeléctricos (Futuros)		Capacidad Instalada (MW)	Potencia Efectiva (MW)	Potencia Firme (MW)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Desarrollos Hidroeléctricos Corp.	San Andres	9.89	9.57	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
Electron Investment	Pando	37.00	33.30	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
Hidroeléctrica Bariles, S.A.	Colorado	5.14	4.74	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
Hydro Caisán, S.A.	El Alto G4	1.17	1.11	n/d				n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d
Navitas Internacional, S.A.	Chuspa	8.80	8.80	2.30				2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
Hidroeléctrica Tizingal S.A.	Tizingal	4.64	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
Los Naranjos Overseas, S.A.	El Sindigo	10.00	10.00	1.28				1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
Hidro Burica, S.A.	Burica	65.30	63.00	22.31						22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31	22.31
Corporación de Energía del Istmo Ltd	San Bartolo	19.44	19.44	6.64								6.64	6.64	6.64	6.64	6.64	6.64	6.64	6.64
Corporación de Energía del Istmo Ltd	San Bartolo Minicentral	1.00	1.00	1.00								1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Bocas del Toro Energía, S.A.	Bocas del Toro (Changuinola II)	214.76	210.94	180.89											180.89	180.89	180.89	180.89	180.89
Bocas del Toro Energía, S.A.	Bocas del Toro Minicentral (Changuinola II)	13.70	12.95	12.95											12.95	12.95	12.95	12.95	12.95
Total Hidroeléctrico Futuro		390.85	379.49	259.53	2.54	0.00	27.67	29.61	35.74	35.74	58.05	58.05	65.69	65.69	259.53	259.53	259.53	259.53	259.53
Proyectos Termoeléctricos (Futuros)		Capacidad Instalada (MW)	Potencia Efectiva (MW)	Potencia Firme (MW)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Minera Panamá, S.A.	Cobre Panamá - PACO Power Plant Und2	153.00**	137.00**	0.00															
Tropitermica, S.A.	Tropitermica	5.10	5.10	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34	4.34
Sinolam Smarter Energy LNG Power Co., Inc.	Gas To Power Panamá GTPP	458.10	424.70	412.29				412.29	412.29	412.29	412.29	412.29	412.29	412.29	412.29	412.29	412.29	412.29	412.29
Panamá NG Power, S.A.	Telfers	670.00	656.16	603.00					603.00	603.00	603.00	603.00	603.00	603.00	603.00	603.00	603.00	603.00	603.00
	Turbina de Gas Aeroderivada (GNL) 100A	100.00	100.00	85.00												85.00	85.00	85.00	85.00
	Turbina de Gas Aeroderivada (GNL) 150A	150.00	150.00	127.50													127.50	127.50	127.50
	Turbina de Gas Aeroderivada (GNL) 250A	250.00	250.00	212.50														212.50	212.50
	Turbina de Gas Aeroderivada (GNL) 100B	100.00	100.00	85.00														85.00	85.00
Total Termoeléctrico Futuro		1733.20	1685.96	1529.63	4.34	4.34	4.34	416.63	1019.63	1019.63	1019.63	1019.63	1019.63	1019.63	1019.63	1104.63	1232.13	1444.63	1529.63
Proyectos Solares (Futuros)		Capacidad Instalada (MW)	Potencia Efectiva (MW)	Potencia Firme (MW)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Panasolar Generation, S.A.	Panasolar Generation	9.90	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solpac Investment, S.A.	Pacora II Etapa 1	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Farallón Solar 2, S.A.	Farallón Solar 2	0.96	0.96	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Photovoltaics Investments Corp.	Ecosolar	10.00	10.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Green Electric, S.A.	La Mata Etapa 1	2.00	2.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jaquito Solar 10 MW, S.A.	Jaquito Solar	9.99	9.99	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Providencia Solar 1, S.A.	Providencia Solar 1	9.95	9.95	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avanzalia Panamá S.A.	Solar Penonomé Etapa 1	60.00	60.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Progreso Solar 20 MW, S.A.	La Esperanza Solar	19.99	19.99	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Celsolar, S.A.	Celsia Solar Prudencia	10.58	10.58	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bajo Frio PV S.A.	Bajo Frio Solar	19.95	19.95	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Farallón Solar 2, S.A.	Farallón Solar 2 Etapa 2	5.16	5.16	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Green Electric, S.A.	La Mata Etapa 2	3.00	3.00	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Llano Sanchez Solar Power, S.A.	Don Félix Etapa 2	7.99	7.99	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generadora de Energía Renovable, S.A	Campo Solar La Victoria	10.00	10.00	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Avanzalia Panamá S.A.	Solar Penonomé Etapa 2	60.00	60.00	0.00				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SDR Energy Panamá, S.A	Parque Solar Progreso 19.8MW	19.80	19.80	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Solar Zona Cocle 20	9.96	9.96	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generadora Solar el Puerto, S.A.	Baco Solar	25.90	25.90	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generadora Solar Austral, S.A.	Madre Vieja Solar	25.90	25.90	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Solar Zona Herrera 01	8.00	8.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Solar Zona Cocle 12	9.99	9.99	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Solar Zona Cocle 09	5.00	5.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Solar Zona Cocle 02	40.00	40.00	0.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Green Electric, S.A.	La Mata Etapa 3	5.00	5.00	0.00						0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Solar Zona Cocle 25	30.00	30.00	0.00															
	Solar Zona Cocle 19	9.95	9.95	0.00															
	Solar Zona Chiriqui 21	17.30	17.30	0.00															
	Solar Zona Chiriqui 03	10.00	10.00	0.00															
	Solar Zona Chiriqui 11	19.89	19.89	0.00															
	Solar Zona Cocle 21	9.95	9.95	0.00															
	Solar Zona Cocle 22	9.95	9.95	0.00															
	Solar Zona Cocle 24	10.00	10.00	0.00															
	Solar Zona Chiriqui 08	19.89	19.89	0.00															
	Solar Zona Chiriqui 09	19.89	19.89	0.00															
	Solar Zona Chiriqui 15	19.80	19.80	0.00															
	Solar Zona Chiriqui 20	71.00	71.00	0.00															
	Solar Zona Panamá Oeste 01	10.00	10.00	0.00															
	Solar Zona Cocle 10	10.00	10.00	0.00															
	Solar Zona Chiriqui 13	19.80	19.80	0.00															
Total Solar Futuro		679.43	679.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proyectos Eólicos (Futuros) MW		Capacidad Instalada (MW)	Potencia Efectiva (MW)	Potencia Firme (MW)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Parque Eólico Toabré, S.A.	Toabré Etapa 1	66.00	66.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UEP Penonomé II, S.A.	Penonome III	69.00	69.00	0.00					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Eólico Zona Veraguas 01	104.40	104.40	0.00									0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Eólico Zona Cocle 04	80.00	80.00	0.00										0.00	0.00	0.00	0.00	0.00	0.00
	Eólico Zona Panamá 01	32.00	32.00	0.00											0.00	0.00	0.00	0.00	0.00
	Eólico Zona Veraguas 04	108.00	108.00	0.00												0.00	0.00	0.00	0.00
	Eólico Zona Panamá 02	136.00	136.00	0.00													0.00	0.00	0.00
	Eólico Zona Cocle 05	22.00	22.00	0.00														0.00	0.00
Total Eólico Futuro		617.40	617.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CUADRO N° A4.2: Costos Marginales del Escenario Alternativo III



**Costo Marginal de Demanda
\$/MWh**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Prom
2019	91.97	95.10	94.99	103.16	93.29	82.88	77.07	69.18	61.38	57.69	47.76	51.19	77.14
2020	67.49	76.36	81.45	91.18	80.25	74.29	70.63	61.45	57.91	56.13	57.44	63.53	69.84
2021	76.24	85.95	88.05	95.61	88.37	85.20	76.26	69.29	62.90	60.73	55.67	61.15	75.45
2022	65.85	67.82	68.07	73.50	66.86	61.77	59.62	56.93	53.80	53.06	52.04	54.84	61.18
2023	48.01	56.44	58.58	59.39	55.82	52.13	47.75	41.83	39.07	33.28	29.58	35.49	46.45
2024	49.78	62.08	61.79	62.19	59.54	56.88	52.66	49.10	48.81	42.78	38.61	41.28	52.13
2025	58.28	66.49	64.85	65.20	62.55	60.92	59.95	56.52	55.30	52.67	45.29	50.56	58.21
2026	65.18	70.61	67.83	68.43	65.54	64.18	61.79	59.58	59.13	59.13	55.18	56.49	62.76
2027	68.53	72.60	69.53	70.85	67.59	65.83	64.45	62.93	63.00	65.85	59.04	62.61	66.07
2028	70.78	74.66	71.39	73.05	70.17	68.17	66.91	65.88	65.56	71.66	66.11	69.43	69.48
2029	71.27	74.43	72.91	74.27	71.41	68.64	67.37	65.91	65.31	71.05	67.22	70.84	70.05
2030	71.17	75.04	72.08	75.20	72.05	68.91	67.25	65.92	65.70	73.04	68.69	68.46	70.29
2031	70.07	75.65	73.27	77.13	74.98	70.43	68.35	67.28	67.47	75.12	71.25	70.23	71.77
2032	74.52	78.27	76.36	83.17	80.47	74.06	72.03	70.34	70.09	77.62	75.85	76.22	75.75
2033	79.68	81.69	79.13	88.58	84.89	79.82	76.28	73.06	72.97	81.49	80.29	79.40	79.77

Informe Final de Generación															
Planta	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Algarrobos	48.69	49.88	48.76	48.22	49.23	48.85	46.66	48.75	48.86	49.11	47.34	56.10	55.11	55.39	57.21
Bajo de Mina G3	0.65	0.80	0.72	0.77	0.77	0.73	0.69	0.67	0.73	0.84	0.76	1.28	1.23	1.29	1.28
Bocas del Toro (Changuinola)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	998.31	1031.64	1029.89	1062.16	1070.99
Bajo de Totumas	30.58	30.41	30.02	29.71	30.17	30.44	29.09	29.90	30.22	30.59	29.32	32.82	32.71	32.34	33.31
Baitún G3	2.01	2.32	2.05	2.14	2.49	2.25	1.99	1.98	2.04	2.36	2.09	3.80	3.71	3.87	3.85
Baitún	314.75	303.17	295.60	290.97	287.40	298.42	287.66	288.55	299.38	306.24	287.12	418.50	423.41	422.76	426.08
Bajo de Mina	212.56	203.26	198.93	195.49	197.96	203.17	194.69	194.36	200.79	204.61	191.50	267.98	271.29	270.10	271.35
Barriles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bayano	622.33	631.05	641.20	676.23	535.80	597.28	645.08	659.68	664.12	672.58	669.13	655.80	625.93	632.13	610.90
Barro Blanco Minicentral	12.66	13.02	12.90	12.99	12.93	12.95	13.03	12.98	12.86	13.03	12.97	13.26	13.26	13.25	13.27
Barro Blanco	95.08	98.25	95.73	95.76	98.28	98.33	93.95	96.02	95.82	98.20	95.36	106.97	105.07	108.47	106.72
Bonvic	156.03	160.21	154.30	155.05	156.46	153.56	152.87	156.88	154.36	156.31	152.94	172.72	171.81	171.39	175.36
Bocas del Toro Minicentral (Baitún)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.41	99.41	99.41	99.41	99.41
Bugaba 1	20.34	20.58	20.15	20.12	20.01	20.58	20.19	20.00	20.33	20.98	20.08	22.29	22.66	22.78	23.05
Bugaba 2	12.85	14.62	13.81	12.98	13.15	13.73	12.01	13.03	13.00	13.40	11.78	17.55	16.81	17.47	19.18
Burica	0.00	0.00	0.00	0.00	0.00	0.00	1.10	1.25	0.99	1.12	1.49	17.21	17.33	16.79	16.69
Caña Blanca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Changuinola 1	242.62	1278.38	1252.21	1239.43	1257.32	1244.93	1231.97	1260.31	1258.50	1066.04	1337.12	1399.05	1399.78	1414.01	1423.12
Chuspa	0.00	0.00	0.00	0.00	45.79	46.92	47.04	47.87	46.27	46.75	46.36	49.83	49.87	50.73	50.81
Cochea	62.58	65.02	62.89	62.32	62.67	63.28	61.89	62.11	62.11	63.33	61.75	69.65	69.30	71.73	71.66
Colorado	0.00	0.00	0.00	1.01	21.68	21.96	21.68	21.51	21.60	22.06	21.44	21.82	23.71	23.81	23.88
Concepción	27.16	26.94	24.49	26.28	24.45	26.20	25.12	26.65	25.34	24.65	25.13	39.17	37.45	39.68	40.18
Cotito	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
La Cuchilla	50.77	48.79	47.27	47.20	45.45	45.05	46.16	45.33	45.28	45.17	45.24	49.33	48.51	48.84	49.60
Dolega	23.07	23.47	23.21	23.13	23.12	23.13	23.32	23.09	23.11	23.06	23.16	23.93	24.01	24.02	23.98
El Alto G4	0.00	0.00	0.00	0.00	0.56	0.59	0.55	0.52	0.65	0.78	0.57	1.14	0.94	1.05	0.99
El Alto	242.15	239.47	233.46	230.41	233.56	237.42	228.87	228.94	235.61	241.50	227.03	295.35	296.92	297.52	297.63
El Fraile	28.53	28.83	27.48	28.59	27.50	27.55	27.60	27.84	27.74	28.87	28.46	30.21	29.82	31.89	33.10
El Recodo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Embalse Ficticio La Esperanza	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Esti	660.04	670.14	660.08	649.09	642.09	653.14	633.94	653.80	641.74	653.98	638.35	735.91	730.26	742.27	763.20
La Estrella	261.03	271.32	265.29	259.84	264.56	265.38	259.70	266.22	261.25	264.22	260.20	264.33	260.69	263.59	267.91
Fortuna	1674.14	1657.53	1637.06	1664.73	1574.17	1609.16	1621.15	1698.19	1605.98	1694.94	1680.89	1596.42	1597.67	1621.70	1690.88
Gualaca	140.34	141.73	139.79	137.65	135.60	138.64	134.60	138.63	136.96	138.48	135.24	154.49	154.33	156.48	160.33
Las Cruces	39.91	42.76	41.45	41.42	41.75	41.38	42.24	41.42	40.44	40.96	40.47	44.55	45.27	47.22	46.03
Los Valles	321.15	311.79	304.73	302.13	306.21	306.98	303.49	305.93	303.02	304.37	299.98	304.41	301.76	303.00	306.99
La Herradura	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
La Huaca	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
La Potra (Bajo Frio)	86.18	84.24	80.71	79.91	80.73	82.62	78.93	79.06	81.84	84.62	78.97	124.72	125.84	125.88	126.80
Las Cruces	5.50	5.55	5.60	5.60	5.57	5.47	5.55	5.51	5.73	5.83	5.85	6.17	6.15	6.18	6.20
Lorena	180.29	182.15	179.55	176.68	173.95	178.01	172.61	178.01	175.76	177.81	173.47	206.15	206.07	208.84	213.92
La Potra G4 (Bajo Frio)	1.42	1.67	1.27	1.30	1.79	1.53	1.40	1.33	1.42	1.68	1.26	3.67	3.54	3.75	3.58
Monte Lirio	261.46	254.62	254.27	248.81	250.07	255.48	250.43	247.52	254.53	255.79	243.55	300.08	302.41	299.07	301.96
Macho Monte	16.93	15.14	13.94	13.31	12.83	12.64	12.78	12.94	12.82	12.95	13.26	13.50	12.70	12.69	12.55
Macano	1.19	1.19	0.99	1.15	1.08	1.14	1.11	1.15	1.12	1.08	1.10	2.47	2.40	2.47	2.54
Mendre II	43.80	44.33	43.90	43.10	43.04	43.37	42.32	43.03	43.17	42.82	41.92	51.80	52.02	51.82	52.48
Mendre	130.80	132.19	131.05	128.90	128.76	129.64	126.83	128.73	129.11	128.17	125.77	138.10	138.70	138.17	139.91
Mini Chan	68.17	68.79	68.79	68.79	68.79	68.79	68.79	68.79	68.79	68.79	68.79	68.79	68.79	68.79	68.79
Ojo de Agua	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paso Ancho	33.29	33.62	33.48	32.92	32.97	33.34	33.22	32.98	33.60	33.53	32.15	36.17	35.19	34.78	35.47
Pando	0.00	171.91	171.19	168.33	168.79	171.71	169.84	167.21	172.18	173.44	164.88	195.41	194.23	193.78	195.92
Pedregalito II	12.88	13.13	10.95	11.98	11.21	12.57	11.48	12.63	11.70	11.18	12.11	37.53	35.71	37.70	38.35
Pedregalito I	27.95	28.22	24.53	26.57	24.74	27.44	25.46	27.65	25.64	24.90	26.39	59.72	56.81	59.98	61.02
Las Perlas Norte	18.89	18.76	16.78	18.15	16.73	18.31	17.17	18.60	17.48	16.76	17.34	35.54	33.99	36.00	36.43
Las Perlas Sur	14.29	14.19	12.39	13.51	12.39	13.74	12.69	13.92	13.08	12.33	12.92	35.54	33.99	36.00	36.43
Los Planetas 2	50.83	51.68	50.62	50.42	50.58	50.87	50.52	50.58	50.34	50.34	50.23	60.27	60.47	60.55	60.43
Los Planetas I	22.35	22.82	22.46	22.32	22.36	22.41	22.49	22.27	22.31	22.31	22.34	27.41	27.46	27.49	27.48
Prudencia	272.39	276.29	271.22	266.24	262.89	268.96	260.11	268.08	265.57	267.96	261.06	314.65	315.11	318.86	326.74
RP-490	9.71	9.66	8.57	9.37	8.67	9.35	8.80	9.54	8.88	8.57	9.08	18.81	17.89	18.87	19.34
Rio Piedra	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres	0.00	42.50	41.64	41.23	41.44	42.36	41.23	41.17	41.88	42.53	41.16	45.56	45.62	46.33	46.81
Salsipuedes (Bajo Frio)	75.22	73.16	69.72	69.13	70.00	71.80	68.12	68.37	70.92	73.63	68.20	122.47	123.70	123.62	124.65
San Andrés II	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
San Bartolo Minicentral	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.77	6.87	6.90	6.77	6.81	6.75	6.79
San Bartolo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.86	40.18	38.42	40.58	46.93	50.80	47.79
El Sindigo	0.00	0.00	0.00	0.00	58.56	59.25	58.74	57.63	59.03	58.84	58.05	63.31	63.88	64.01	64.58
San Lorenzo	45.17	46.00	43.98	44.45	45.05	44.86	43.14	44.00	44.11	45.08	44.23	48.49	48.24	49.90	49.01
Santa Maria 82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tizingal	0.00	0.00	0.00	0.00	5.66	5.68	5.39	5.74	5.72	5.95	5.37	9.81	9.38	9.78	9.77
La Yeguada	26.94	27.55	26.89	27.39	27.28	27.59	27.05	26.49	27.09	27.72	26.81	26.88	26.90	27.56	27.40
Bunker C (No. 6 fuel oil)	262.27	116.29	104.15	9.87	0.00	0.00	0.00	0.00	0.00	0.27	0.39	0.08	0.00	0.00	0.00
Carbón (bituminoso)	308.34	194.14	200.82	21.88	0.00	0.00	0.00	1.21	1.18	3.50	5.04	4.03	12.94	37.72	92.53
Gas Natural	2198.09	2096.12	2017.39	2935.58	3469.62	3874.34	4546.83	5334.64	5643.63	6348.52	5941.89	5922.97	6395.99	7251.33	8285.94
Diesel (No. 2 fuel oil)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Solar	336.95	368.50	573.02	796.65	1,063.39	1,151.43	1,140.89	1,142.87	1,150.34	1,151.04	1,272.88	1,339.27	1,399.80	1,612.58	1,708.60
Eólico	595.59	766.91	7												