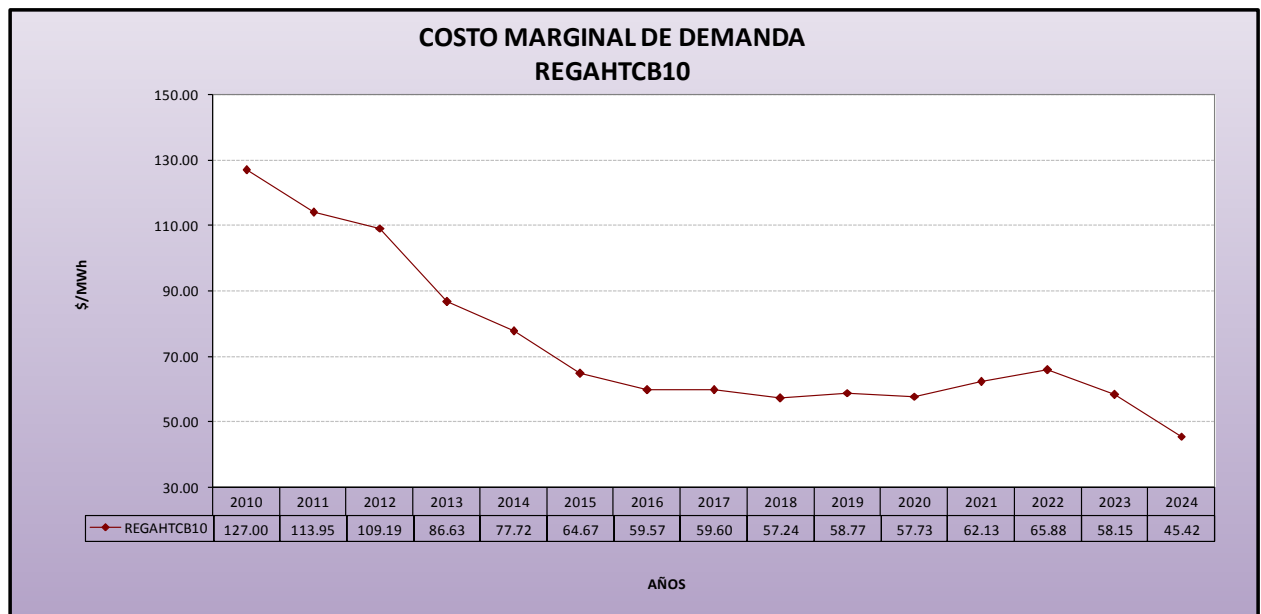


Anexo 18

Salidas de los Casos de Demanda Alta:

CUADRO N° A9.2: Costos Marginales del Caso REGMHTCB10

COSTO MARGINAL DE DEMANDA EN \$/MWh													
Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Prom
2010	125.10	131.79	147.91	149.24	141.07	130.94	126.06	118.27	112.98	112.17	114.81	113.69	127.00
2011	118.85	124.27	126.17	136.66	119.67	114.37	114.22	112.46	108.59	96.91	94.14	101.07	113.95
2012	114.70	122.63	131.30	132.73	127.36	120.02	115.87	109.66	93.84	80.19	80.71	81.24	109.19
2013	98.70	122.65	140.39	141.88	121.25	99.04	67.05	64.75	41.23	32.27	42.47	67.84	86.63
2014	85.09	112.58	134.28	143.48	132.57	87.67	55.13	42.93	38.07	33.24	29.52	38.08	77.72
2015	68.80	85.00	105.72	127.00	104.79	57.47	46.26	38.31	37.92	38.00	31.17	35.59	64.67
2016	65.86	82.35	93.83	105.62	90.83	49.67	46.67	36.98	34.43	34.48	33.12	41.05	59.57
2017	60.23	76.02	100.45	114.30	104.14	44.81	40.43	34.97	33.30	34.16	32.28	40.13	59.60
2018	66.83	95.92	96.29	88.70	74.59	46.18	40.99	38.61	34.69	35.58	32.22	36.28	57.24
2019	45.67	64.53	104.68	132.55	104.20	50.18	39.01	34.57	32.12	32.10	32.97	32.64	58.77
2020	38.09	57.25	114.06	145.63	97.14	47.47	33.56	33.27	31.63	31.55	31.34	31.82	57.73
2021	34.08	57.78	138.48	171.59	106.06	37.87	37.53	34.01	31.21	30.93	31.52	34.55	62.13
2022	46.46	71.63	154.66	165.21	119.24	36.24	32.78	32.62	31.83	31.69	31.91	36.32	65.88
2023	35.17	50.60	108.52	151.51	111.63	38.83	33.73	32.55	32.49	32.88	34.94	34.90	58.15
2024	37.28	43.92	64.67	99.32	74.11	35.45	32.64	32.02	31.54	31.46	31.03	31.57	45.42
Prom	69.39	86.59	117.43	133.69	108.58	66.41	57.46	53.06	48.39	45.84	45.61	50.45	



CUADRO N° A9.3: Informe Final de Generación del Caso REGMHTCB10

CASO REGAHTCB10															
Informe Final de Generación en GWh															
Años	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
PA_Fortuna	1536	1640	1644	1503	1416	1601	1540	1617	1586	1674	1623	1614	1416	1527	1907
PA_Bayano	780	588	503	393	491	573	616	624	699	684	625	614	421	561	959
PA_Estrella	241	242	248	243	238	250	243	257	249	247	246	254	249	246	245
PA_Valles	282	282	291	287	285	287	284	298	291	285	284	294	290	291	286
PA_Esti	604	615	608	600	607	615	619	620	618	617	614	611	611	620	613
PA_Gualaca	41	122	121	119	120	122	122	123	123	123	122	122	121	123	121
PA_Lorena	0	163	162	160	162	164	163	165	165	164	164	163	162	165	163
PA_Prudencia	0	151	281	279	280	285	287	286	289	287	285	285	285	287	283
PA_Pando	0	0	0	185	218	220	218	220	217	217	219	223	219	219	219
PA_Mon Lirio	0	0	0	228	225	228	227	230	224	223	224	236	229	225	226
PA_Chan I	0	904	1220	1162	1144	1200	1191	1142	1189	1208	1265	1173	1123	1159	1318
PA_Chan II	0	0	0	0	0	0	0	1038	1109	1141	1168	1103	1034	1069	1228
PA_Bonyic	0	0	0	176	172	181	176	183	176	177	180	176	173	171	183
PA_Esperanza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA_Bjo Mina	109	294	296	292	290	294	293	295	297	295	298	296	294	298	294
PA_El Alto	0	0	0	278	271	276	281	280	277	274	273	279	279	277	281
PA_Mendre	114	118	116	118	114	116	115	117	118	115	115	116	117	118	119
PA_Sindigo	0	0	0	0	0	0	56	56	56	56	56	56	57	58	57
PA_Pedregal	0	64	102	103	102	103	104	104	105	102	104	102	102	106	104
PA_Tab II	0	0	0	0	0	172	205	204	204	201	206	203	203	203	203
PA_B. Blanco	0	0	0	71	102	103	104	106	107	102	107	105	105	105	103
PA_MinChan I	0	55	82	82	82	82	82	82	82	82	82	82	82	82	82
PA_Baitun	0	39	462	462	462	462	462	462	462	462	462	462	462	462	462
PA_Potrerill	0	0	0	0	2	23	23	23	23	23	23	23	23	23	23
PA_Cochea	0	0	71	71	70	71	72	71	72	72	72	72	72	72	72
PA_Macano	11	27	27	27	27	27	27	27	27	27	27	27	27	27	27
PA_Concepcio	61	61	61	61	61	62	62	62	62	61	62	63	62	62	61
PA_Perlas N	0	0	19	61	61	62	62	62	62	61	62	63	62	62	61
PA_Perlas S	0	0	19	61	61	62	62	62	62	61	62	63	62	62	61
PA_Algarrobo	58	58	58	58	58	57	58	59	59	58	57	58	58	59	58
PA_Mendre2	0	0	5	47	45	46	46	47	47	46	46	46	47	47	47
PA_Pedreg2	0	0	0	0	0	68	69	70	70	67	68	68	69	71	71
PA_Caldera	0	0	0	19	19	19	19	19	20	19	19	20	20	20	19
PA_Slorenzo	0	0	0	0	44	44	45	46	45	45	45	46	45	46	45
PA_LasCruces	0	0	0	48	46	48	48	49	49	48	48	49	49	49	48
PA_Estrechos	0	0	0	41	41	41	42	42	43	42	41	43	43	43	41
PA_Bartolo	0	0	24	76	73	76	76	77	77	76	76	78	77	78	76
PA_Laguna	0	0	0	50	48	51	49	49	52	49	50	51	50	52	50
PA_Tizingal	0	0	0	21	36	36	36	36	36	37	37	37	37	36	36
PA_Planetas1	18	24	24	24	24	24	24	24	24	24	24	25	24	25	24
PA_Bajofrio	0	0	0	226	260	261	268	265	267	263	262	270	265	264	269
PA_PasoAncho	24	35	35	33	31	32	31	32	30	31	32	32	32	30	33
PA_Yeguada	24	25	24	25	24	25	25	25	25	24	24	26	26	25	23
PA_Dolega	21	20	21	21	21	21	21	20	21	21	21	21	21	21	20
PA_Mmonte	14	14	14	14	13	14	14	14	14	14	14	13	14	14	14
PA_Anton123	22	22	22	21	21	22	21	22	22	22	22	21	22	21	22
PA_RP490	0	0	0	52	54	55	55	55	56	54	56	53	56	57	56
BUNKER	2449	1475	596	481	280	163	124	143	100	144	151	192	184	148	104
DIESEL M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIESEL L.	106	20	0	0	0	0	0	0	0	0	0	0	0	0	0
CARBON	397	944	922	715	633	633	563	557	545	2016	3269	4712	5326	5534	5235
TURBA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GAS NAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACP1	283	196	208	143	102	38	30	27	20	40	33	64	65	39	9
ACP2	1	0	0	0	2	2	1	3	1	3	4	8	8	6	1
ACP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACP4	1	0	0	0	0	0	0	2	1	4	6	12	13	8	2
EOLICO	0	68	284	280	284	282	284	285	285	288	288	286	285	287	288
Total Hidro	3960	5563	6560	7798	7921	8581	8639	9766	9910	9982	9975	9840	9297	9638	10713
Total Eolico	0	68	284	280	284	282	284	285	285	288	288	286	285	287	288
Total Term.	3237	2635	1726	1339	1017	836	718	732	667	2207	3463	4988	5596	5735	5351
Total Gen.	7197	8266	8570	9417	9222	9699	9641	10783	10862	12477	13726	15114	15178	15660	16352
Import.	201	49	97	118	365	485	966	667	1009	356	114	29	179	290	352
Export.	246	825	704	1067	542	475	275	492	330	599	863	1406	827	592	458
Perdidas	6	1	3	4	11	15	29	20	30	11	3	1	5	9	11
Demanda	7145	7489	7960	8466	9033	9694	10306	10937	11511	12224	12975	13737	14523	15351	16238
Deficit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CUADRO N° A9.5: Costos Marginales del Caso REGMHTCBEO10

COSTO MARGINAL DE DEMANDA EN \$/MWh													
Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Prom
2010	125.56	130.96	149.90	148.89	139.45	131.56	125.70	119.39	113.89	112.72	109.97	111.96	126.66
2011	118.45	124.50	128.05	139.13	121.61	116.19	114.34	112.57	108.47	96.30	90.12	85.77	112.96
2012	109.60	120.87	129.58	133.02	126.13	118.57	109.43	99.79	79.97	54.81	58.48	69.51	100.81
2013	85.20	110.82	135.94	140.11	110.81	71.32	38.28	29.04	16.36	10.85	21.06	45.36	67.93
2014	68.26	107.60	127.27	144.04	127.13	69.76	38.74	32.14	22.71	18.86	22.41	32.03	67.58
2015	50.62	72.57	121.28	131.38	101.68	47.77	35.94	30.41	24.99	24.64	29.48	37.25	59.00
2016	52.83	69.71	80.41	97.87	79.29	38.97	31.71	29.14	28.26	29.93	31.32	43.62	51.09
2017	42.64	65.10	98.37	125.33	94.32	33.81	33.33	29.22	24.47	27.39	32.89	39.62	53.87
2018	49.92	68.77	81.97	93.57	70.14	36.08	30.89	31.91	25.78	29.73	29.39	31.88	48.34
2019	48.18	63.11	124.88	139.10	90.67	43.34	35.33	31.69	30.34	30.92	30.94	31.26	58.31
2020	36.98	55.97	113.29	133.46	88.14	38.26	32.12	31.62	31.33	31.19	31.03	31.35	54.56
2021	32.52	58.58	125.75	141.32	86.04	32.69	34.65	32.64	31.35	31.24	31.29	31.44	55.79
2022	33.15	44.82	129.37	150.55	87.42	34.91	32.63	32.15	31.71	31.37	30.67	31.90	55.89
2023	32.27	39.01	83.56	142.62	83.07	33.47	32.48	31.66	31.36	31.48	33.38	33.94	50.69
2024	34.39	41.00	64.69	109.07	62.20	33.57	31.83	31.78	31.22	30.82	30.00	31.08	44.30
Prom	61.37	78.23	112.95	131.30	97.87	58.68	50.49	47.01	42.15	39.48	40.83	45.86	



CUADRO N° A9.6: Informe Final de Generación del Caso REGMHTCBEO10

CASO REGAHTCBEO10															
Informe Final de Generación en GWh															
Años	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
PA_Fortuna	1668	1627	1588	1469	1454	1636	1591	1576	1637	1621	1631	1560	1457	1557	1886
PA_Bayano	718	634	537	554	491	395	621	513	717	548	600	491	519	654	901
PA_Estrella	241	242	248	243	238	250	243	257	249	247	246	254	249	246	245
PA_Valles	282	282	291	287	285	287	284	298	291	285	284	294	290	291	286
PA_Esti	603	608	598	595	601	613	613	618	616	615	614	611	616	620	611
PA_Gualaca	41	120	119	118	119	121	121	122	122	122	122	121	122	123	121
PA_Lorena	0	162	159	158	160	163	163	164	164	164	163	163	164	165	163
PA_Prudencia	0	151	277	278	278	284	286	285	288	285	284	284	286	287	282
PA_Pando	0	0	0	185	218	220	218	220	217	217	219	223	219	219	219
PA_MonLirio	0	0	0	228	225	228	227	230	224	223	224	236	229	225	226
PA_Chan I	0	903	1224	1175	1151	1197	1197	1151	1252	1196	1227	1204	1140	1180	1253
PA_Chan II	0	0	0	0	0	0	0	1059	1168	1130	1130	1122	1073	1096	1146
PA_Bonyic	0	0	0	176	172	181	176	183	176	177	180	176	173	171	183
PA_Esperanza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA_Bjo Mina	109	294	296	294	290	296	294	295	297	295	298	296	294	299	294
PA_El Alto	0	0	0	278	271	276	281	280	277	274	273	279	279	277	281
PA_Mendre	114	117	116	117	114	116	115	117	118	115	115	116	118	117	119
PA_Sindigo	0	0	0	0	0	56	56	56	56	56	56	56	57	58	57
PA_Pedregal	0	64	102	103	102	103	104	104	105	102	104	102	102	106	104
PA_Tab II	0	0	0	0	0	172	205	204	204	201	206	203	203	203	203
PA_B_Blanco	0	0	0	71	102	104	105	106	107	102	107	105	104	105	103
PA_MinChan I	0	55	82	82	82	82	82	82	82	82	82	82	82	82	82
PA_Baitun	0	39	462	462	462	462	462	462	462	462	462	462	462	462	462
PA_Potrerrill	0	0	0	0	2	23	23	23	23	23	23	23	23	23	23
PA_Cochea	0	0	71	71	70	71	72	71	72	72	72	72	72	72	72
PA_Macano	11	27	27	27	27	27	27	27	27	27	27	27	27	27	27
PA_Concepcio	61	61	61	61	61	62	62	62	62	61	62	63	62	62	61
PA_Perlas N	0	0	19	61	61	62	62	62	62	61	62	63	62	62	61
PA_Perlas S	0	0	19	61	61	62	62	62	62	61	62	63	62	62	61
PA_Algarrobo	58	58	58	58	58	57	58	59	59	58	57	58	58	59	58
PA_Mendre2	0	0	5	47	45	46	46	47	47	46	46	46	47	47	47
PA_Pedreg2	0	0	0	0	0	68	69	70	70	67	68	68	69	71	71
PA_Caldera	0	0	0	19	19	19	19	19	20	19	19	20	20	20	19
PA_Slorenzo	0	0	0	0	44	44	45	46	45	45	45	46	45	46	45
PA_LasCruces	0	0	0	48	46	48	48	49	49	48	48	49	49	49	48
PA_Estrechos	0	0	0	41	41	41	42	42	43	42	41	43	43	43	41
PA_Bartolo	0	0	24	76	73	76	76	77	77	76	76	78	77	78	76
PA_Laguna	0	0	0	50	48	51	49	49	52	49	50	51	50	52	50
PA_Tizingal	0	0	0	21	36	37	36	37	36	37	37	37	37	36	36
PA_Planetas1	18	24	24	24	24	24	24	24	24	24	24	25	24	25	24
PA_Bajofrio	0	0	0	226	260	261	268	265	267	263	262	270	265	264	269
PA_PasoAncho	24	35	35	33	31	32	31	32	30	31	32	32	32	30	33
PA_Yeguada	24	25	24	25	24	25	25	25	25	24	24	26	26	25	23
PA_Dolega	21	20	21	21	21	21	21	20	21	21	21	21	21	21	20
PA_Mmonte	14	14	14	14	13	14	14	14	14	14	14	13	14	14	14
PA_Anton123	22	22	22	21	21	22	21	22	22	22	22	21	22	21	22
PA_RP490	0	0	0	52	54	55	55	55	56	54	56	53	56	57	56
BUNKER	2405	1461	529	383	252	204	114	150	101	130	137	165	144	137	107
DIESEL M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIESEL L.	107	25	0	0	0	0	0	0	0	0	0	0	0	0	0
CARBON	397	939	848	513	492	486	438	443	412	1624	2731	4074	4712	4800	4737
TURBA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GAS NAT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACP1	270	197	173	122	94	45	14	32	9	46	31	56	40	26	8
ACP2	1	0	0	0	1	3	1	3	1	3	4	6	6	4	1
ACP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACP4	1	0	0	0	0	0	0	2	1	5	5	9	10	6	2
EOLICO	0	68	746	1051	1186	1195	1196	1192	1197	1208	1209	1206	1203	1207	1209
Total Hidro	4029	5584	6523	7930	7955	8434	8699	9641	10094	9764	9877	9708	9501	9809	10484
Total Eolico	0	68	746	1051	1186	1195	1196	1192	1197	1208	1209	1206	1203	1207	1209
Total Term.	3181	2622	1550	1018	839	738	567	630	524	1808	2908	4310	4912	4973	4855
Total Gen.	7210	8274	8819	9999	9980	10367	10462	11463	11815	12780	13994	15224	15616	15989	16548
Import.	186	33	53	73	146	245	526	430	505	230	39	16	38	104	186
Export.	244	816	910	1606	1085	910	669	942	796	780	1056	1502	1127	739	496
Perdidas	6	1	2	2	4	7	16	13	15	7	1	0	1	3	6
Demanda	7145	7489	7960	8466	9033	9694	10306	10937	11511	12224	12975	13737	14523	15351	16238
Deficit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

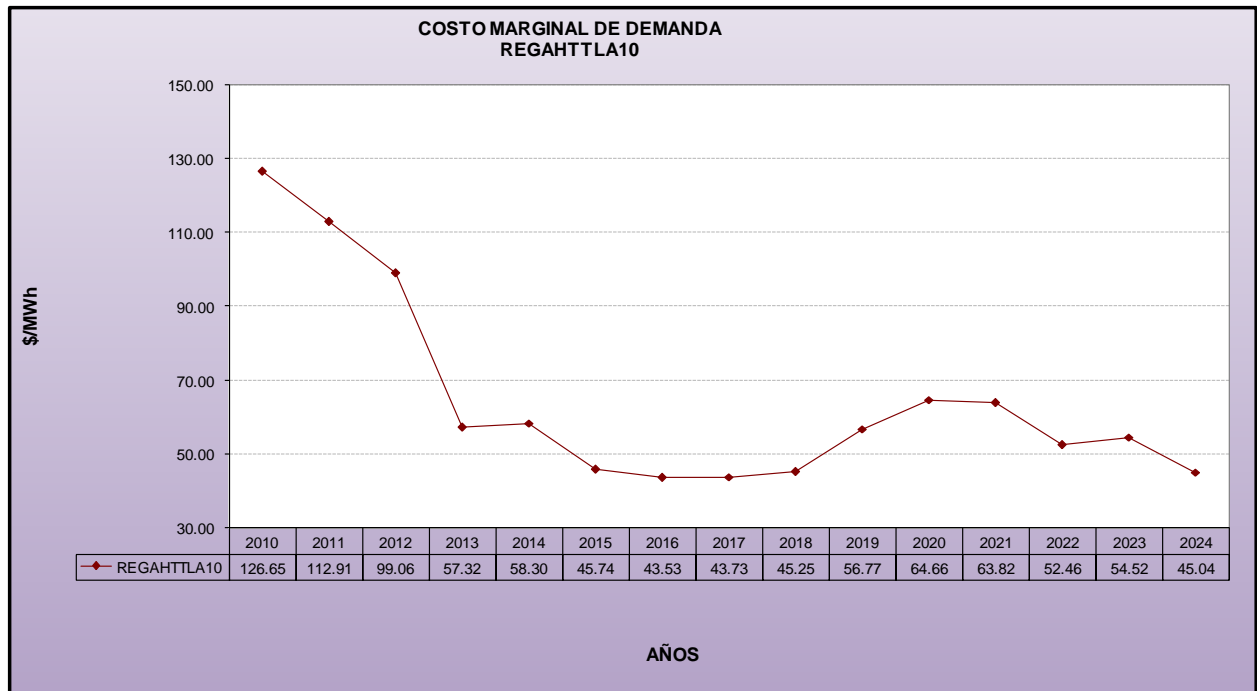
Cuadro N° A9.7 Capacidad Firme Caso REGAHTTLA10

CAPACIDAD FIRME (MW) - HIDROTERMICO CONSIDERANDO TODAS LAS ALTERNATIVAS /DEM.ALTA

Caso REGAHTTLA10	Capacidad Instalada	Fact. Disp. o Pot. Firme	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
EGE FORTUNA	300		284	284	284	284	284	284	284	284	284	284	284	284	284	284	284
Fortuna	300	284	284	284	284	284	284	284	284	284	284	284	284	284	284	284	284
AES PANAMA	482		306	306	306	306	306	306	306	306	306	306	306	306	306	306	306
Bayano	260	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
La Estrella	47	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Los Valles	55	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Canjiones	120	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
ISTMUS HYDROPOWER, S.A.	10		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Concepcion	10	2.49	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
BLM CORP.	280		169	210	210	210	210	108	108	108	108	108	108	108	108	108	108
Bahia las Minas 2	40	0.68	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahia las Minas 3	40	0.53	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahia las Minas 4	40	0.48	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bahia las Minas Carbón	120	0.90	0	108	108	108	108	108	108	108	108	108	108	108	108	108	108
Ciclo Combinado BLM	160	0.64	102	102	102	102	102	0	0	0	0	0	0	0	0	0	0
CALDERA ENERGY CORP.	18		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Mendre	18	4.00	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
AUTORIDAD DEL CANAL DE PANAMA (ACP)	175		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
ACP	175		132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
TURBINAS DE GAS PANAMA (EGESA)	43		34	34	0	0	0	0	0	0	0	0	0	0	0	0	0
EGESA	43	0.79	34	34	0	0	0	0	0	0	0	0	0	0	0	0	0
COPESA	44		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Copesa	44	0.90	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
PAN-AM GENERATING	96		82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Pan Am	96	0.85	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
PEDREGAL POWER PROJECT	53.5		46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
Pacora PP	53.5	0.85	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
TERMICA DEL CARIBE, S.A.	50.0		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
El Giral	50.0	0.90	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
GENERADORA DEL ATLANTICO, S.A.	150.0		105	105	105	105	105	0	0	0	0	0	0	0	0	0	0
T. Colon	150.0	0.70	105	105	105	105	105	0	0	0	0	0	0	0	0	0	0
GDF SUEZ ENERGY	87.0		78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
T. Cativa	87.0	0.90	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
PROYECTOS HIDROELECTRICOS (FUTUROS)	1171		49	334	355	500	502	518	522	672	672	672	672	672	672	672	672
Guilaca	25	23.00	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Lorena	34	30.62	25	31	31	31	31	31	31	31	31	31	31	31	31	31	31
Prudencia	56	50.00	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Pedregalito	20	3.30	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Pando	33	25.13				25	25	25	25	25	25	25	25	25	25	25	25
Monte Lirio	52	32.38				32	32	32	32	32	32	32	32	32	32	32	32
El Alto	68.00	22.14				22	22	22	22	22	22	22	22	22	22	22	22
Bonyic	31.30	22.22				22	22	22	22	22	22	22	22	22	22	22	22
Bajo Mina	56.00	20.07	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Chan I	222.46	175.00				175	175	175	175	175	175	175	175	175	175	175	175
Chan II	214.00	150.38								150	150	150	150	150	150	150	150
Baitun	88.70	31.09		31	31	31	31	31	31	31	31	31	31	31	31	31	31
Tabasará II	34.50	11.90						12	12	12	12	12	12	12	12	12	12
Barro Blanco	28.84	10.92				11	11	11	11	11	11	11	11	11	11	11	11
Paso Ancho	5.00	4.30	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Los Planetas	4.76	0.71	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Macano	3.43	0.90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cochea	12.50	2.20				2	2	2	2	2	2	2	2	2	2	2	2
San Bartolo	15.25	5.34				5	5	5	5	5	5	5	5	5	5	5	5
Las Perlas Norte	10.00	2.70				3	3	3	3	3	3	3	3	3	3	3	3
Las Perlas Sur	10.00	2.70				3	3	3	3	3	3	3	3	3	3	3	3
Mendre II	8.00	2.80				3	3	3	3	3	3	3	3	3	3	3	3
Caldera	4.00	1.40				1	1	1	1	1	1	1	1	1	1	1	1
Las Cruces	9.17	3.21				3	3	3	3	3	3	3	3	3	3	3	3
Los Estrechos	10.00	3.50				4	4	4	4	4	4	4	4	4	4	4	4
La Laguna	9.30	3.26				3	3	3	3	3	3	3	3	3	3	3	3
RP-490	9.95	1.79				2	2	2	2	2	2	2	2	2	2	2	2
Bajo Frío	56.00	16.51				17	17	17	17	17	17	17	17	17	17	17	17
Tiznagal	4.64	2.55				3	3	3	3	3	3	3	3	3	3	3	3
San Lorenzo	8.12	0.44				0	0	0	0	0	0	0	0	0	0	0	0
Potrillo	4.17	1.46				1	1	1	1	1	1	1	1	1	1	1	1
Pedregalito 2	13.00	4.55						5	5	5	5	5	5	5	5	5	5
El Sindigo	10.00	3.50						4	4	4	4	4	4	4	4	4	4
PROYECTOS TERMoeLECTRICOS (FUTUROS)	908		0	0	0	170	170	432	432	432	432	432	432	644	857	857	984
CB250a	250	0.85	0	0	0	0	0	0	0	0	0	0	0	213	213	213	213
CB250b	250	0.85	0	0	0	0	0	0	0	0	0	0	0	213	213	213	213
CB150a	150	0.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
CCGN200 (ISLA EN COLON)	200	0.85	0	0	0	170	170	170	170	170	170	170	170	170	170	170	170
CCGNBLM	158	0.85	0	0	0	0	0	134	134								

CUADRO N° A9.8: Costos Marginales del Caso REGMHTTLA10

COSTO MARGINAL DE DEMANDA EN \$/MWh													
Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Prom
2010	125.50	130.96	149.75	148.89	139.45	131.55	125.70	119.39	113.89	112.73	109.97	112.03	126.65
2011	118.29	124.39	127.52	139.27	121.60	116.37	114.22	112.47	108.45	96.40	90.06	85.92	112.91
2012	109.78	120.88	129.68	132.81	126.12	118.19	109.51	99.53	80.64	50.90	47.54	63.14	99.06
2013	69.80	100.40	132.51	134.80	96.80	47.99	30.44	20.70	9.53	6.41	9.90	28.50	57.32
2014	55.51	95.97	118.81	134.18	114.67	53.95	32.22	28.82	15.14	10.28	16.93	23.07	58.30
2015	43.25	63.21	83.60	90.02	79.36	44.54	33.00	28.80	17.99	16.14	20.17	28.83	45.74
2016	37.50	59.07	73.77	88.35	70.17	36.92	30.24	26.45	24.19	23.52	22.61	29.60	43.53
2017	39.42	66.10	87.28	102.20	72.00	31.19	26.64	24.36	12.45	13.61	21.38	28.14	43.73
2018	40.06	61.19	83.69	88.30	65.34	34.27	29.72	29.76	24.11	23.97	26.69	35.94	45.25
2019	51.79	70.04	92.45	109.29	87.64	48.06	40.67	35.89	33.31	34.63	36.18	41.35	56.77
2020	55.75	76.44	104.68	127.87	99.22	68.47	53.04	41.57	36.77	37.63	34.46	40.07	64.66
2021	49.64	70.86	113.75	143.79	107.60	61.26	46.32	36.93	32.49	32.09	33.97	37.18	63.82
2022	41.97	54.62	101.46	105.04	88.71	36.87	32.73	32.05	31.47	31.36	34.37	38.87	52.46
2023	40.14	54.01	93.60	127.92	90.19	39.73	35.03	33.68	32.62	33.16	36.77	37.41	54.52
2024	38.95	48.03	67.31	83.69	74.50	39.32	33.56	32.28	31.36	30.17	30.07	31.29	45.04
Prom	61.16	79.74	103.99	117.09	95.56	60.58	51.54	46.85	40.29	36.87	38.07	44.09	



CUADRO N° A9.9: Informe Final de Generación del Caso REGMHTTLA10

CASO REGAHTTLA10															
Informe Final de Generación en GWh															
Años	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
PA_Fortuna	1666	1628	1647	1485	1464	1629	1690	1559	1483	1529	1606	1594	1558	1487	1901
PA_Bayano	715	637	574	514	446	528	620	425	603	419	657	717	515	424	936
PA_Estrella	241	242	248	243	238	250	243	257	249	247	246	254	249	246	245
PA_Valles	282	282	291	287	285	287	284	298	291	285	284	294	290	291	286
PA_Esti	603	608	598	588	595	608	608	599	610	615	618	618	616	618	614
PA_Gualaca	41	120	119	117	118	121	121	119	121	122	123	122	122	123	122
PA_Lorena	0	162	159	156	158	162	162	159	162	164	164	164	164	164	163
PA_Prudencia	0	151	277	275	276	282	284	279	285	285	285	287	287	286	284
PA_Pando	0	0	0	185	218	220	218	220	217	217	219	223	219	219	219
PA_MonLirio	0	0	0	228	225	228	227	230	224	223	224	236	229	225	226
PA_Chan I	0	903	1223	1179	1152	1212	1204	1205	1146	1166	1195	1268	1106	1160	1311
PA_Chan II	0	0	0	0	0	0	0	1129	1059	1105	1100	1196	1016	1073	1217
PA_Bonyic	0	0	0	176	172	181	176	183	176	177	180	176	173	171	183
PA_Esperanza	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PA_Bjo Mina	109	294	296	289	290	295	294	295	297	294	298	296	294	299	294
PA_El Alto	0	0	0	278	271	276	281	280	277	274	273	279	279	277	281
PA_Mendre	114	117	116	117	114	117	115	117	118	115	115	116	118	117	120
PA_Sindigo	0	0	0	0	0	56	56	56	56	56	56	56	57	58	57
PA_Pedregal	0	64	102	103	102	103	104	104	105	102	104	102	102	106	104
PA_Tab II	0	0	0	0	0	172	205	204	204	201	206	203	203	203	203
PA_B. Blanco	0	0	0	71	102	103	105	106	107	102	107	105	105	105	103
PA_MinChan I	0	55	82	82	82	82	82	82	82	82	82	82	82	82	82
PA_Baitun	0	39	462	462	462	462	462	462	462	462	462	462	462	462	462
PA_Potrerill	0	0	0	0	2	23	23	23	23	23	23	23	23	23	23
PA_Cochea	0	0	71	71	70	71	71	72	71	72	72	72	72	72	72
PA_Macano	11	27	27	27	27	27	27	27	27	27	27	27	27	27	27
PA_Concepcio	61	61	61	61	61	62	62	62	62	61	62	63	62	62	61
PA_Perlas N	0	0	19	61	61	62	62	62	62	61	62	63	62	62	61
PA_Perlas S	0	0	19	61	61	62	62	62	62	61	62	63	62	62	61
PA_Algarrobo	58	58	58	58	58	57	58	59	59	58	57	58	58	59	58
PA_Mendre2	0	0	5	47	45	46	46	47	47	46	46	46	47	47	47
PA_Pedreg2	0	0	0	0	0	68	69	70	70	67	68	68	69	71	71
PA_Caldera	0	0	0	19	19	19	19	19	20	19	19	20	20	20	19
PA_Slorenzo	0	0	0	0	44	44	45	46	45	45	45	46	45	46	45
PA_LasCruces	0	0	0	48	46	48	48	49	49	48	48	49	49	49	48
PA_Estrechos	0	0	0	41	41	41	42	42	43	42	41	43	43	43	41
PA_Bartolo	0	0	24	76	73	76	76	77	77	76	76	78	77	78	76
PA_Laguna	0	0	0	50	48	51	49	49	52	49	50	51	50	52	50
PA_Tizingal	0	0	0	21	36	36	36	36	36	36	37	37	37	36	36
PA_Planetas1	18	24	24	24	24	24	24	24	24	24	24	25	24	25	24
PA_Bajofrio	0	0	0	226	260	261	268	265	267	263	262	270	265	264	269
PA_PasoAncho	24	35	35	33	31	32	31	32	30	31	32	32	32	30	33
PA_Yeguada	24	25	24	25	24	25	25	25	25	24	24	26	26	25	23
PA_Dolega	21	20	21	21	21	21	21	20	21	21	21	21	21	21	20
PA_Mmonte	14	14	14	14	13	14	14	14	14	14	14	13	14	14	14
PA_Anton123	22	22	22	21	21	22	21	22	22	22	22	21	22	21	22
PA_RP490	0	0	0	52	54	55	55	55	56	54	56	53	56	57	56
BUNKER	2407	1462	526	275	175	95	94	96	95	98	107	102	96	94	94
DIESEL M.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIESEL L.	107	24	0	0	0	0	0	0	0	0	0	0	0	0	0
CARBON	397	939	828	454	440	425	405	374	440	546	581	2186	3528	3922	3748
TURBA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GAS NAT	0	0	0	676	662	685	602	764	629	864	1191	1092	883	798	540
ACP1	270	196	173	96	70	5	2	5	3	17	17	37	10	18	1
ACP2	1	0	0	0	0	1	0	1	0	1	2	4	1	2	0
ACP3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ACP4	1	0	0	0	0	0	0	1	0	1	3	6	2	3	0
EOLICO	0	68	746	941	1167	1173	1190	1160	1187	1204	1203	1206	1204	1207	1209
Total Hidro	4024	5588	6618	7892	7910	8565	8796	9626	9599	9486	9854	10118	9509	9462	10670
Total Eolico	0	68	746	941	1167	1173	1190	1160	1187	1204	1203	1206	1204	1207	1209
Total Term.	3183	2621	1527	1501	1347	1211	1103	1241	1167	1527	1901	3427	4520	4837	4383
Total Gen.	7207	8277	8891	10334	10424	10949	11089	12027	11953	12217	12958	14751	15233	15506	16262
Import.	186	32	41	28	71	102	252	211	457	621	759	133	248	406	489
Export.	243	820	972	1897	1456	1353	1031	1290	886	598	719	1143	948	552	501
Perdidas	6	1	1	1	2	3	8	6	14	19	23	4	7	12	15
Demanda	7145	7489	7960	8466	9033	9694	10306	10937	11511	12224	12975	13737	14523	15351	16238
Deficit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0