



**DATOS RELEVANTES DEL MERCADO ELÉCTRICO
PANAMEÑO**

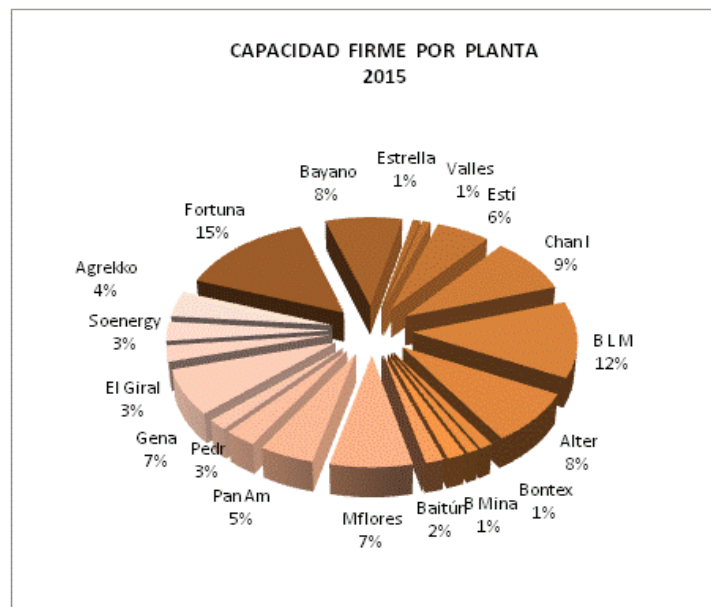
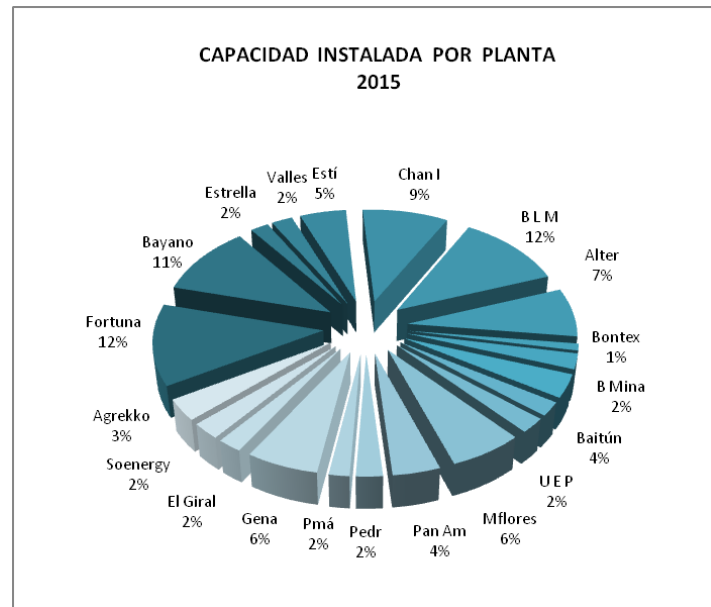
JULIO DE 2015

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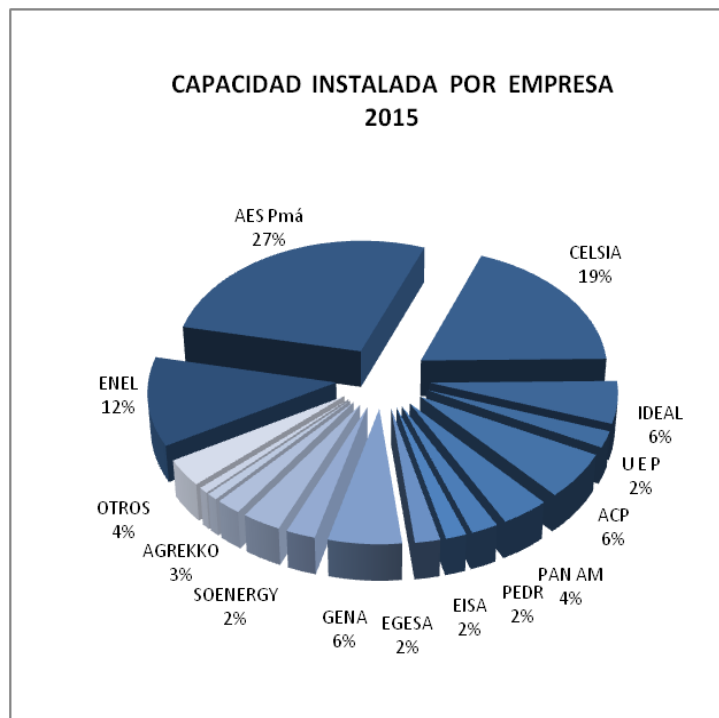
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I. CAPACIDAD INSTALADA Y CAPACIDAD FIRME POR AGENTE Y POR PLANTA

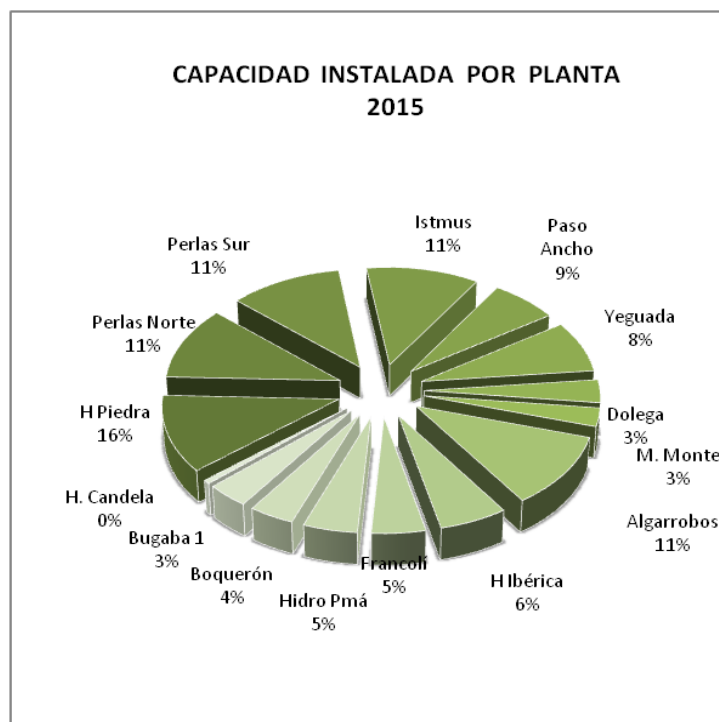
Empresa	Planta	Capacidad Instalada	Capacidad Firme
		MW	MW
ENEL	Fortuna	300.00	284.00
AES Pmá	Bayano	260.00	160.12
AES Pmá	Estrella	47.20	16.13
AES Pmá	Valles	54.76	17.63
AES Pmá	Estí	120.00	112.67
AES Chan	Chan I	222.17	175.33
CELSIA	B L M	280.00	240.50
CELSIA	Alter	179.43	164.21
CELSIA	Bontex	25.34	23.04
IDEAL	B Mina	56.80	20.07
IDEAL	Baitún	85.90	31.09
EISA	Mlirio	51.60	32.38
U E P	U E P	55.00	0.00
ACP	Mflores	153.92	144.50
PAN AM	Pan Am	99.00	96.00
PEDR	Pedr	55.35	55.35
EGESA	Pmá	42.80	34.00
GENA	Gena	150.00	144.50
VALLEY	El Giral	50.85	50.40
SOENERGY	Soenergy	60.00	60.00
AGREKKO	Agrekko	80.00	80.00
PEDREG	Pedregalito	20.00	5.25
R CHICO	Río Chico	10.00	3.22
A VALLE	Alto valle	15.50	3.06
CALDERA	Mendre 1	19.75	3.90
ENEL	San Juan	9.00	0.00
ELECTROG	Mendre 2	7.80	1.56
OTROS	Otros	89.97	30.20
	TOTAL	2,602.14	1,989.11



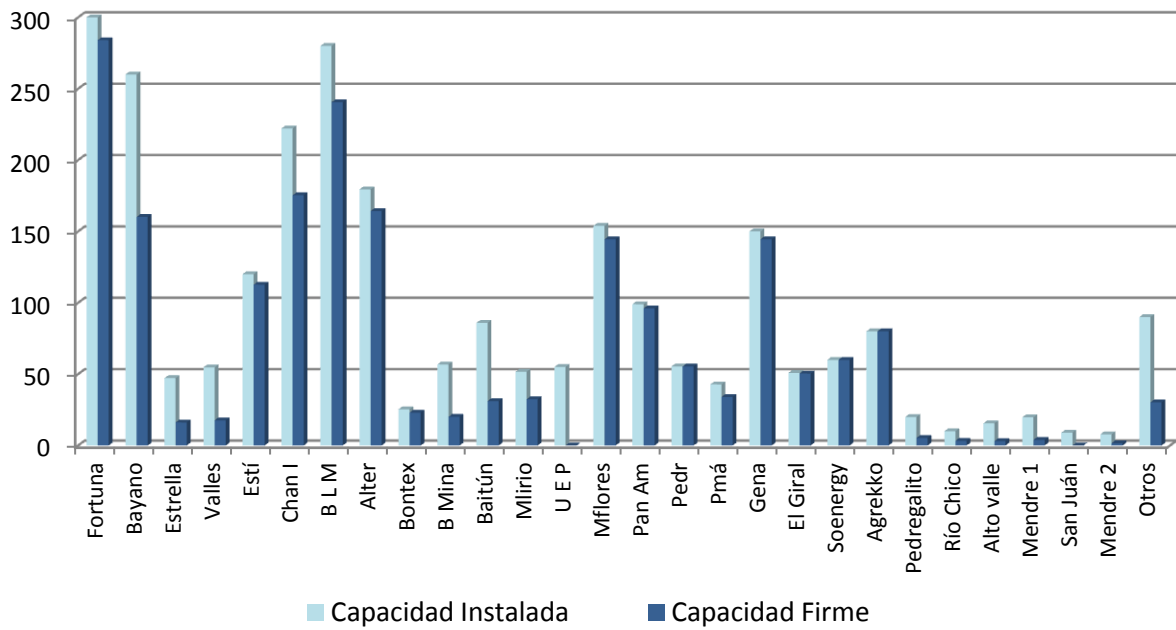
Empresa	Capacidad Instalada MW	Capacidad Firme MW
ENEL	300.00	284.00
AES	704.13	481.88
CELSIA	484.77	427.75
IDEAL	142.70	51.16
U E P	55.00	0.00
ACP	153.92	144.50
PAN AM	99.00	96.00
PEDR	55.35	55.35
EGESA	42.80	34.00
EISA	51.60	32.38
GENA	150.00	144.50
SOENERGY	60.00	60.00
AGREKKO	80.00	80.00
ESEPSA	22.48	7.31
PEDREG	20.00	5.25
OTROS	89.97	30.20
R CHICO	10.00	3.22
A VALLE	15.50	3.06
CALDERA	19.75	3.90
ELECTROG	7.80	1.56
TOTAL	2,615.62	1,996.42



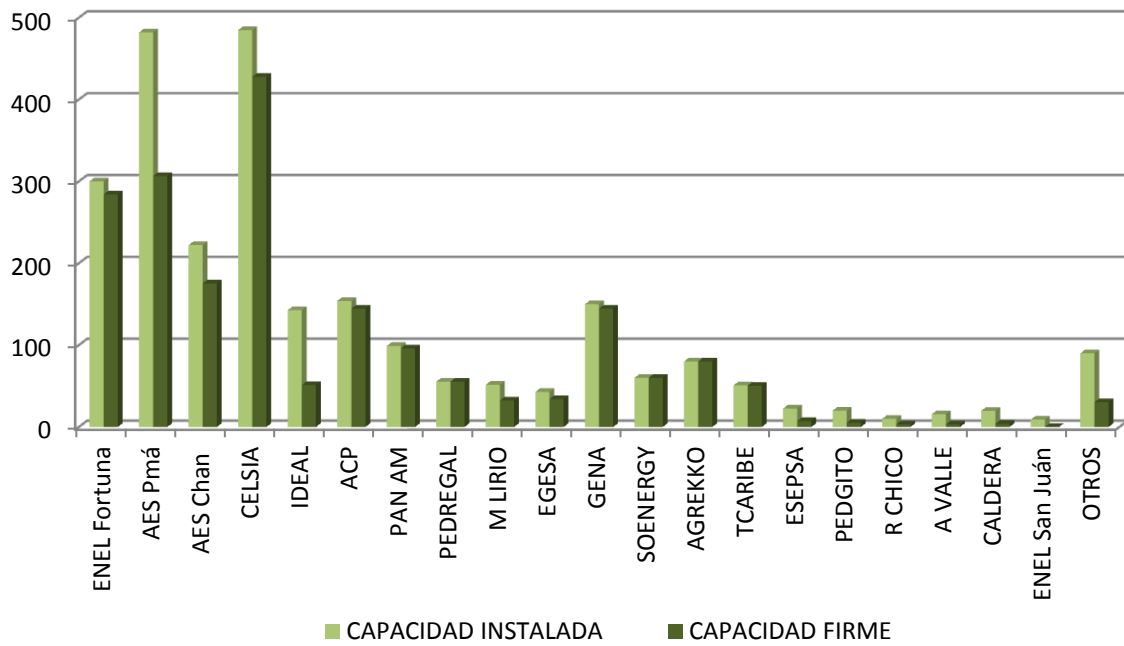
OTROS	Capacidad Instalada MW	Capacidad Firme MW
H Piedra	10.50	3.00
Perlas Norte	10.00	2.46
Perlas Sur	10.00	2.46
Istmus	10.00	2.49
Paso Ancho	6.00	4.30
Yeguada	7.00	3.00
Dolega	3.12	1.10
M. Monte	2.50	0.80
Algarrobos	9.86	2.41
H Ibérica	5.30	5.00
Francolí	4.18	0.91
Hidro Pmá	4.20	0.74
Boquerón	3.50	0.90
Bugaba 1	3.28	0.50
H. Candela	0.53	0.13
TOTAL	89.97	30.20



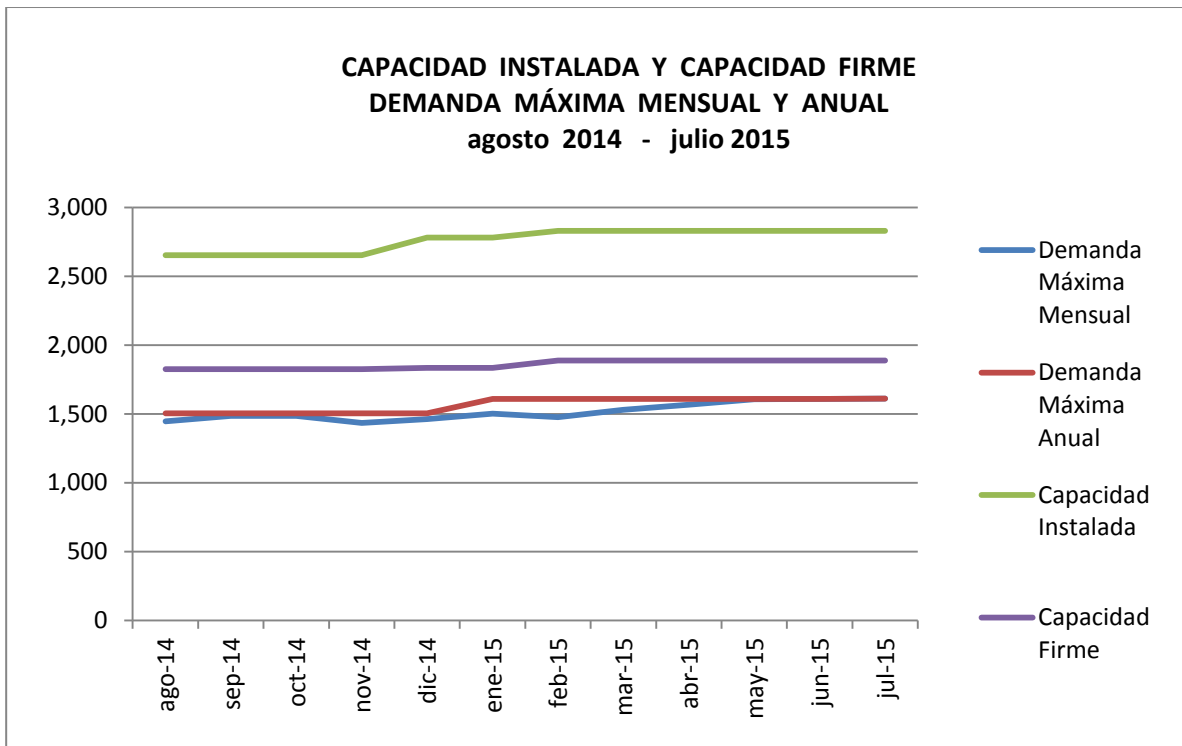
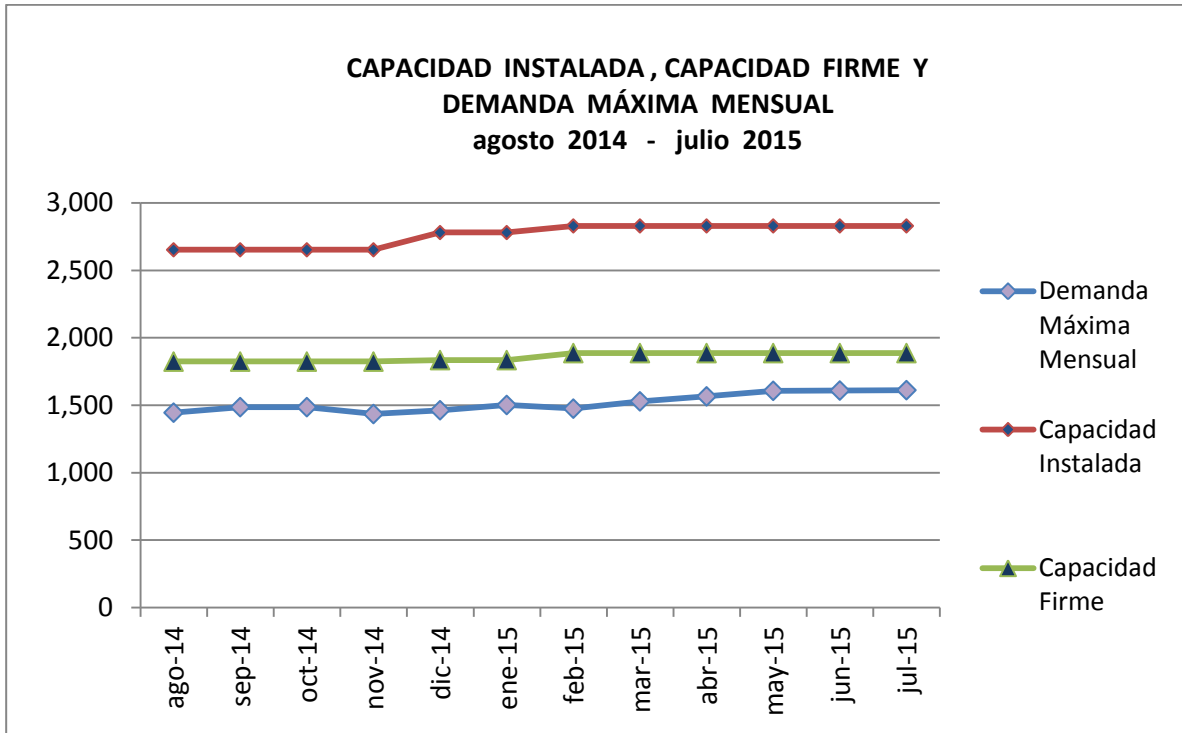
CAPACIDAD INSTALADA Y CAPACIDAD FIRME POR PLANTA (MW) 2015



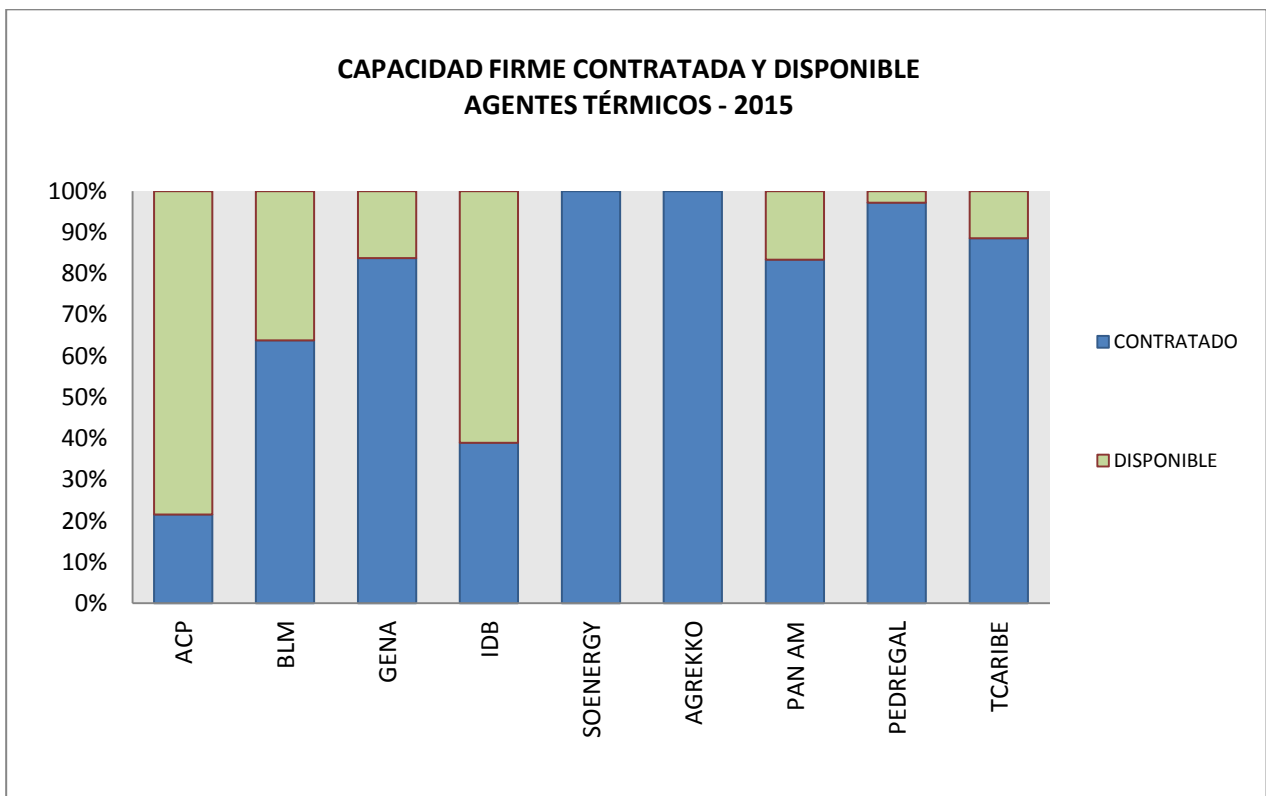
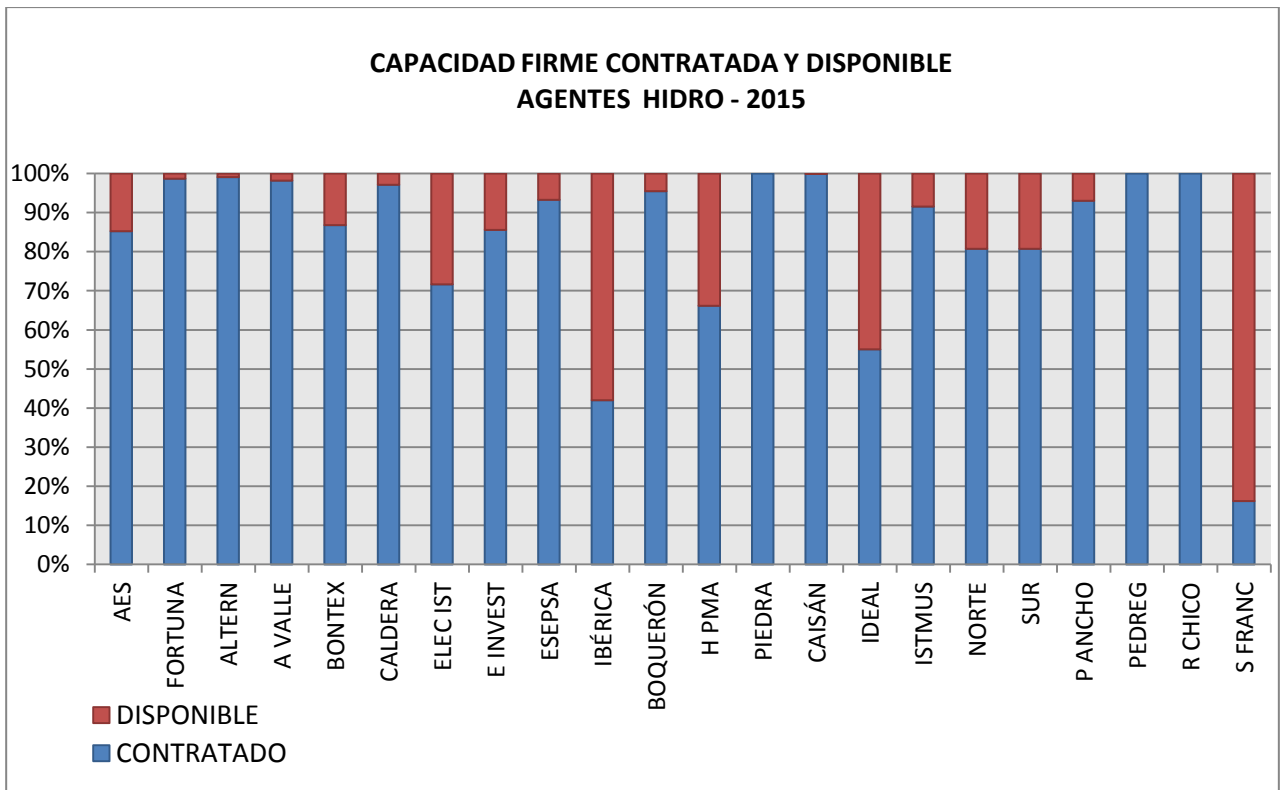
CAPACIDAD INSTALADA Y CAPACIDAD FIRME POR EMPRESA (MW) 2015



II. CAPACIDAD INSTALADA Y CAPACIDAD FIRME VS DEMANDA MÁXIMA MENSUAL

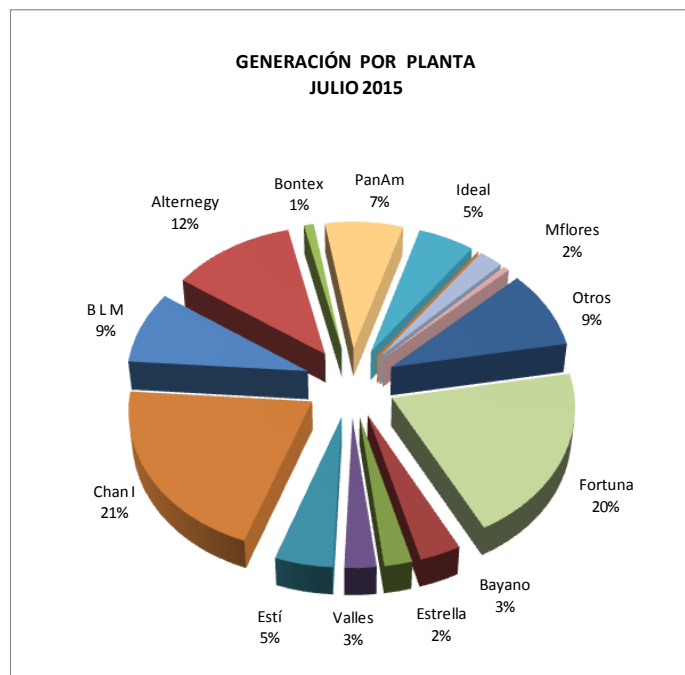


III. POTENCIA FIRME CONTRATADA Y POTENCIA DISPONIBLE DE LOS AGENTES HIDRÁULICOS Y TÉRMICOS

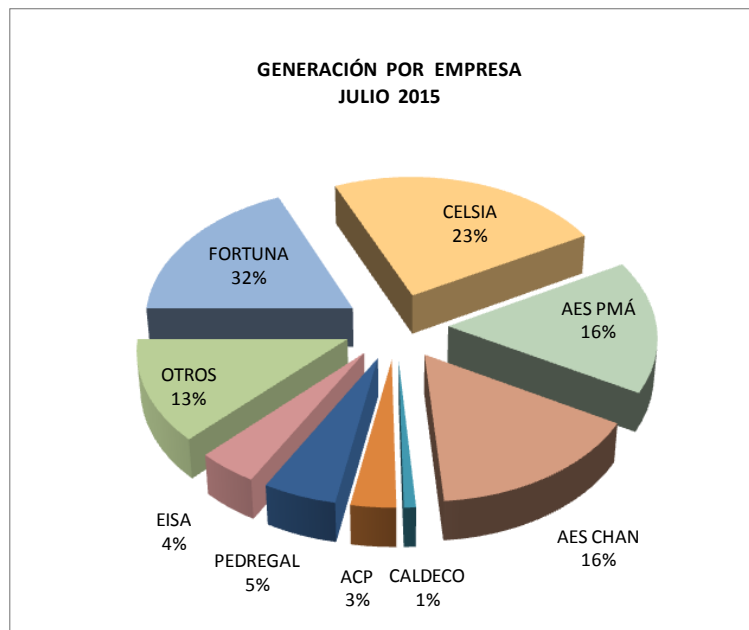


IV. GENERACIÓN POR EMPRESA Y POR PLANTA

Empresa	Planta	MWh
ENEL	Fortuna	149,900.07
AES Pmá	Bayano	25,765.09
AES Pmá	Estrella	17,452.09
AES Pmá	Valles	19,846.35
AES Pmá	Estí	36,129.11
AES Chan	Chan I	154,365.77
CELSIA	B L M	63,341.85
CELSIA	Alternegy	88,135.83
CELSIA	Bontex	7,071.67
PAN AM	PanAm	55,536.87
IDEAL	Ideal	40,310.29
EGESA	Egesa	0.00
ACP	Mflores	17,546.63
Esepsa	Esepsa	4,661.06
OTROS	Otros	68,335.68
TOTAL		748,398.35

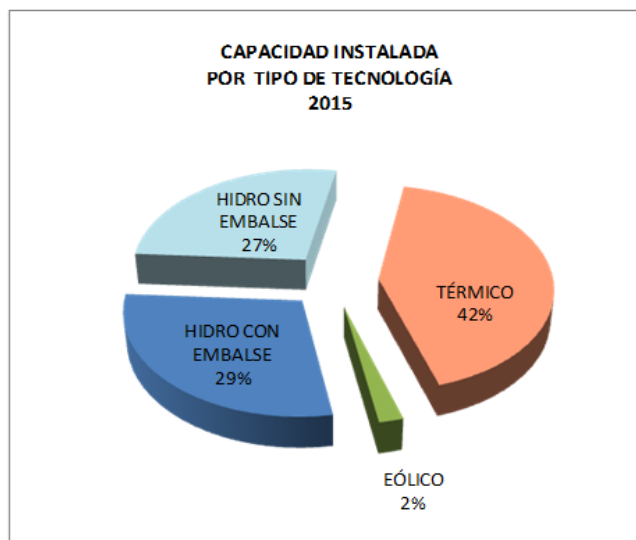


Empresa	MWh
FORTUNA	100,399.79
CELSIA	127,044.86
AES PMÁ	88,057.56
AES CHAN	85,055.82
CALDECO	4,650.23
ACP	17,546.63
PEDREGAL	28,466.85
EISA	23,229.76
OTROS	68,335.68
TOTAL	542,787.18



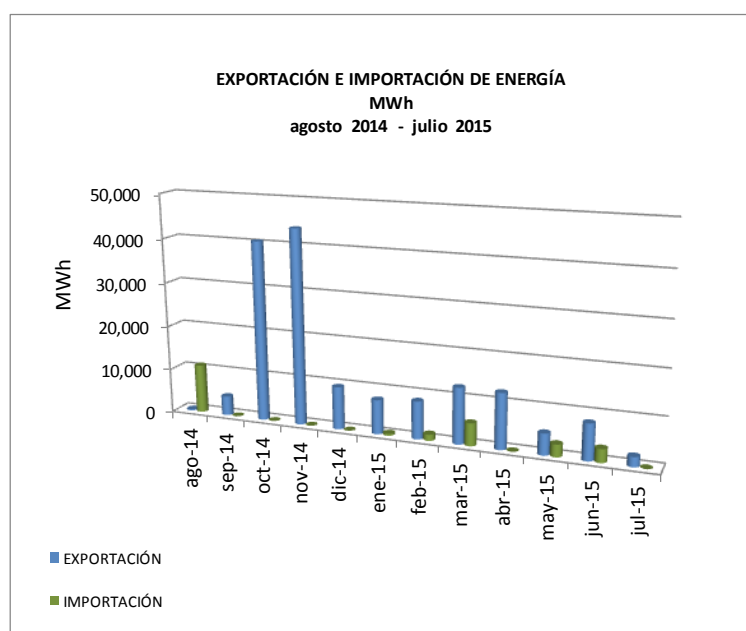
V. CAPACIDAD INSTALADA POR TIPO DE TECNOLOGÍA

TIPO DE TECNOLOGÍA	MW	%
HIDRO CON EMBALSE	782.00	29%
HIDRO SIN EMBALSE	732.00	27%
TÉRMICO	1,150.04	42%
RENOVABLE	55.00	2%
TOTAL	2,719.04	100%



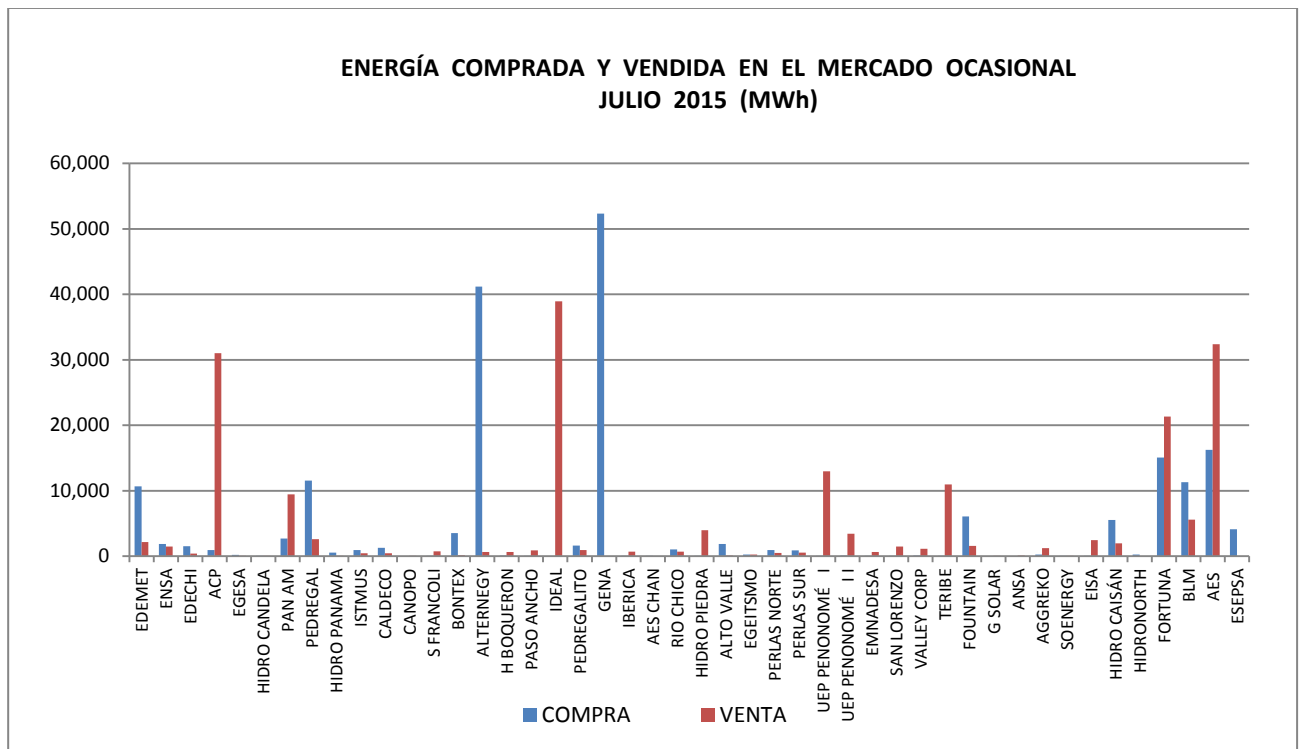
VI. IMPORTACIONES Y EXPORTACIONES

	EXPORTACIÓN MWh	IMPORTACIÓN MWh
ago-14	271.02	10,969.52
sep-14	4,352.77	0.00
oct-14	40,477.07	0.00
nov-14	43,846.22	0.00
dic-14	9,600.67	0.00
ene-15	7,730.58	434.00
feb-15	8,500.20	1,395.36
mar-15	12,564.71	5,074.91
abr-15	12,467.07	0.00
may-15	4,823.34	2,774.00
jun-15	8,131.94	3,012.40
jul-15	2,204.39	0.00



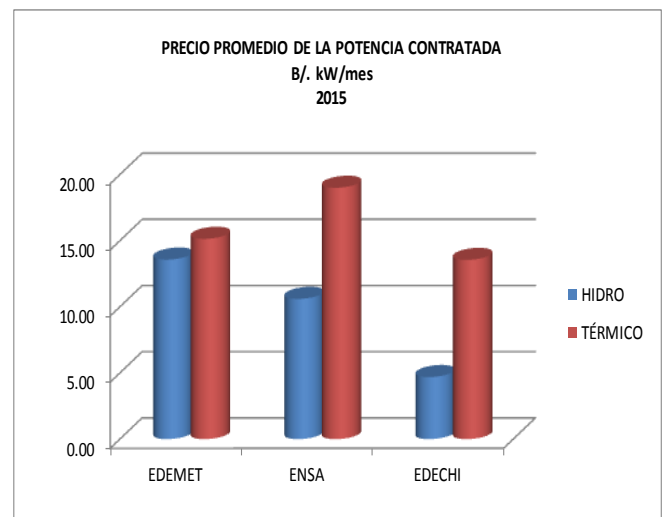
VII. COMPRA Y VENTA DE ENERGÍA EN EL MERCADO OCASIONAL

MERCADO OCASIONAL JULIO 2015				
EMPRESA	COMPRA		VENTA	
	MWh	B/.	MWh	B/.
EDEMET	10683.41	833,416.35	2,152.33	118,578.96
ENSA	1899.56	158,630.36	1,473.79	91,032.62
EDECHI	1520.03	131,518.82	425.83	23,295.43
ACP	943.09	62,674.91	31,017.76	2,252,906.04
EGESA	204.13	15,719.82	33.70	3,204.30
HIDRO CANDELA	53.32	4,246.38	2.05	120.70
PAN AM	2714.67	56,611.60	9,472.97	676,831.54
PEDREGAL	11552.73	610,749.97	2,613.31	232,340.02
HIDRO PANAMA	552.25	37,241.03	2.11	127.65
ISTMUS	957.40	83,557.19	478.79	20,481.90
CALDECO	1293.97	106,591.08	481.04	19,003.90
CANOPO	0.00	0.00	43.93	3,883.24
S FRANCOLI	8.60	554.86	768.30	57,366.63
BONTEX	3540.31	270,853.47	162.52	8,260.08
ALTERNEG	41169.51	2,825,469.49	657.08	54,117.54
H BOQUERON	118.93	1,890.78	636.14	36,049.34
PASO ANCHO	50.14	3,299.65	916.23	66,838.93
IDEAL	0.00	0.00	38,939.91	2,533,464.87
PEDREGALITO	1642.02	121,572.64	945.50	51,164.38
GENA	52,324.693	3,832,736.83	0.00	0.00
IBERICA	21.625	1,056.17	720.194	51,140.65
AES CHAN	0.754	71.95	0.00	0.00
RIO CHICO	1,031.842	76,137.35	727.823	41,213.36
HIDRO PIEDRA	7.467	547.81	3,966.781	252,204.63
ALTO VALLE	1,866.419	116,126.48	106.088	6,542.14
EGEITSMO	276.542	23,987.07	286.643	12,894.81
PERLAS NORTE	932.050	81,649.47	507.973	21,687.59
PERLAS SUR	883.435	77,395.62	542.794	23,219.45
UEP PENONOMÉ I	26.687	1,619.02	12,969.483	892,483.58
UEP PENONOMÉ II	92.879	5,675.90	3,440.943	229,998.97
EMNADESA	80.661	6,696.16	662.427	36,947.57
SAN LORENZO	54.508	2,700.19	1,495.908	113,755.95
VALLEY CORP	114.400	7,449.65	1,131.896	130,171.58
TERIBE	91.833	7,349.72	10,979.766	746,135.72
FOUNTAIN	6,083.237	481,317.65	1,574.858	60,759.97
G SOLAR	0.00	0.00	7.370	644.13
ANSA	0.00	0.00	128.055	11,295.52
AGGREKO	265.354	17,879.61	1,262.679	167,417.94
SOENERGY	0.549	40.89	88.691	7,103.70
EISA	28.036	2,419.30	2,481.592	151,739.23
HIDRO CAISÁN	5,523.822	400,669.95	1,989.673	112,809.81
HIDRONORTH	252.626	18,437.40	0.00	0.00
FORTUNA	15,056.056	740,856.02	21,323.240	1,589,931.80
BLM	11,300.548	794,521.62	5,573.196	275,526.70
AES	16,256.324	1,040,998.79	32,400.630	2,185,522.53
ESEPSA	4,115.565	307,276.38	0.00	0.00
TOTAL	195,591.99	13,370,215.40	195,591.99	13,370,215.40



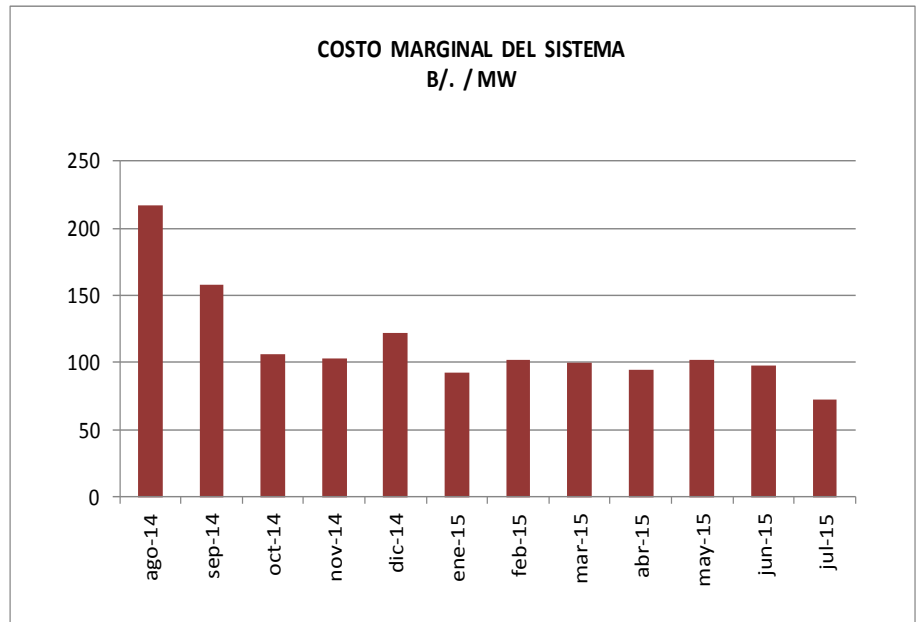
VIII. PRECIO PROMEDIO PONDERADO DE LA POTENCIA CONTRATADA

	HIDRO	TÉRMICO	TOTAL
	(B/. kW/mes)		
EDEMET	13.57	15.14	14.51
ENSA	10.60	19.00	16.41
EDECHI	4.69	13.55	9.12



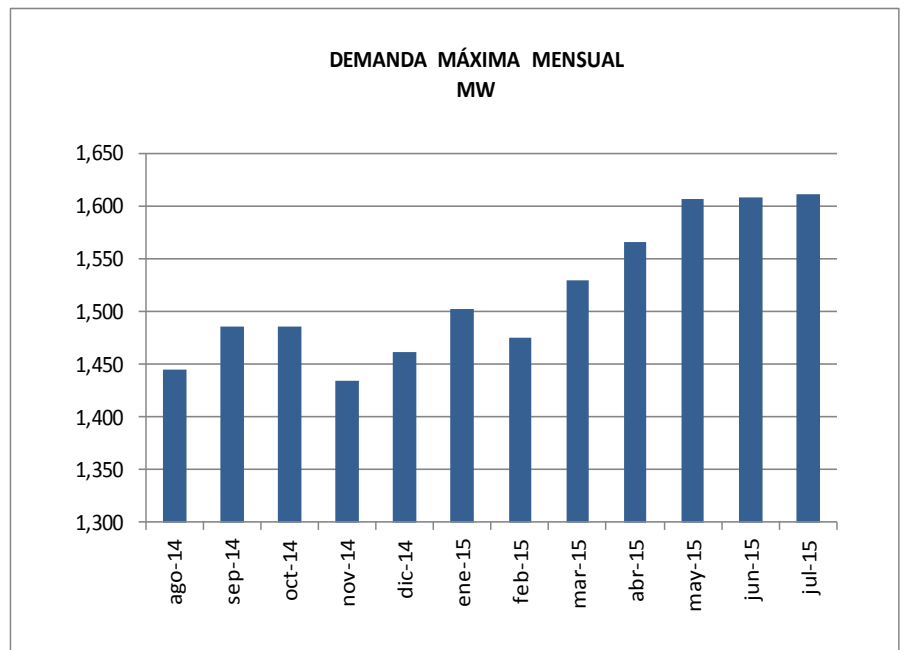
IX. COSTO MARGINAL DEL SISTEMA

	C M S
	B/. / MWh
ago-14	217.32
sep-14	157.92
oct-14	106.25
nov-14	102.81
dic-14	121.81
ene-15	92.63
feb-15	102.31
mar-15	99.46
abr-15	95.04
may-15	101.7
jun-15	98.18
jul-15	72.82

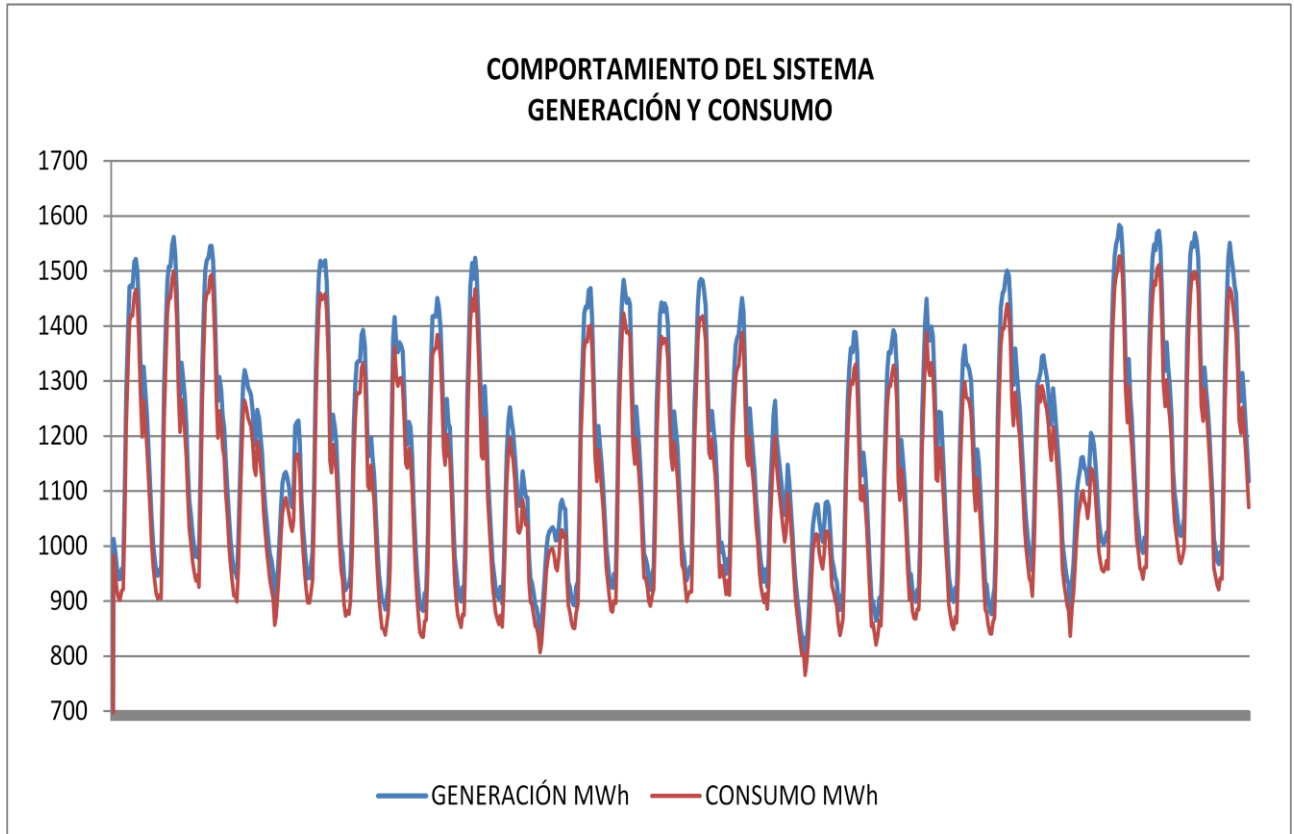


X. DEMANDA MÁXIMA MENSUAL Y ANUAL

mes	Demanda Máxima
ago-14	1,445.00
sep-14	1,486.00
oct-14	1,486.00
nov-14	1,435.00
dic-14	1,462.00
ene-15	1,502.00
feb-15	1,475.00
mar-15	1,529.00
abr-15	1,566.00
may-15	1,607.00
jun-15	1,609.00
jul-15	1,612.00



XI. COMPORTAMIENTO DEL SISTEMA (GENERACIÓN/CONSUMO) MENSUAL



XII. COSTOS DE POTENCIA Y ENERGÍA CONTRATADA

JULIO	EDEMET				ENSA			
	HIDRO	TÉRMICO	EÓLICO	TOTAL	HIDRO	TÉRMICO	EÓLICO	TOTAL
COSTO POTENCIA (B/.)	7,744,455.77	3,775,207.00	0.00	11,519,662.77	3,275,830.01	4,063,890.36	0.00	7,339,720.37
COSTO ENERGÍA (B/.)	17,797,822.98	11,611,006.97	1,682,951.54	31,091,781.49	11,786,672.79	12,251,555.08	764,869.87	24,803,097.74
COSTO TOTAL (B/.)	25,542,278.75	15,386,213.97	1,682,951.54	42,611,444.25	15,062,502.80	16,315,445.44	764,869.87	32,142,818.11
ENERGÍA (MWh)	287,928.53	78,980.19	16,812.65	383,721.36	157,630.18	17,041.98	7,641.57	285,265.41
MONÓMICO (B./MWh)	88.71	194.81	100.10	111.05	95.56	957.37	100.09	112.68

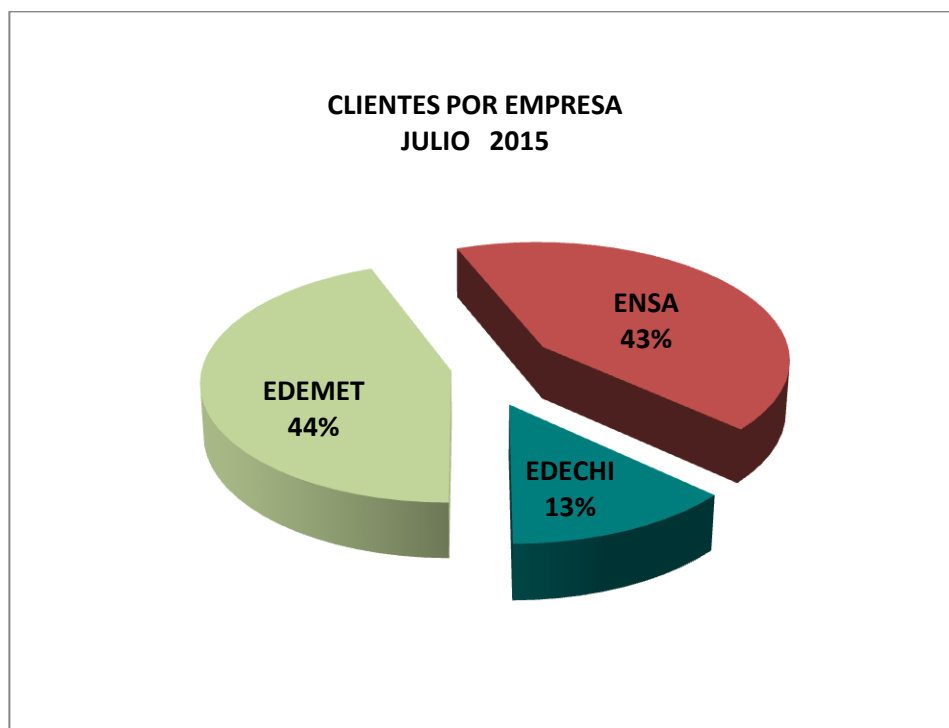
JULIO	EDECHI				TOTAL			
	HIDRO	TÉRMICO	EÓLICO	TOTAL	HIDRO	TÉRMICO	EÓLICO	TOTAL
COSTO POTENCIA (B/.)	645,626.24	683,412.84	0.00	1,329,039.08	11,665,912.02	8,522,510.20	0.00	20,188,422.22
COSTO ENERGÍA (B/.)	3,648,741.05	2,423,193.72	566,006.98	6,637,941.74	33,233,236.82	26,285,755.76	3,013,828.39	62,532,820.97
COSTO TOTAL (B/.)	4,294,367.29	3,106,606.56	566,006.98	7,966,980.82	44,899,148.83	34,808,265.96	3,013,828.39	82,721,243.19
ENERGÍA (MWh)	49,149.77	16,451.00	5,654.40	71,255.17	494,708.47	112,473.16	30,108.61	637,290.25
MONÓMICO (B./MWh)	87.37	188.84	100.10	111.81	90.76	309.48	100.10	129.80

XIII. ENERGÍA ADQUIRIDA EN CONTRATOS Y EN EL MERCADO OCASIONAL POR LAS DISTRIBUIDORAS

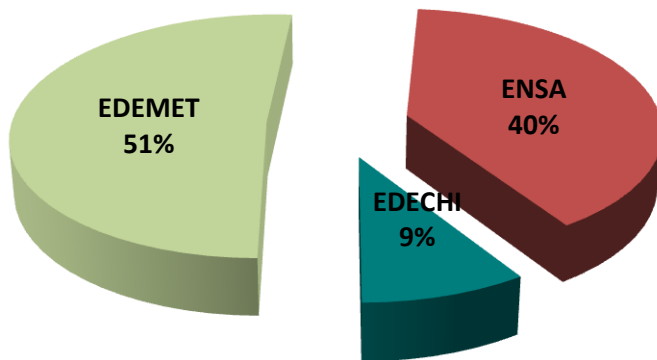
MWh	EDEMET	ENSA	EDECHI	TOTAL
Energía en Contratos	383,721.36	318,239.00	71,255.166	773,215.53
Energía en Ocasional	10,683.41	426.00	1,520.035	11,109.41
Total	394,404.77	318,665.00	72,775.20	784,324.94
% Mercado Ocasional	2.71%	0.13%	2.09%	1.42%

XIV. CLIENTES, VENTAS E INGRESOS POR DISTRIBUIDORA

	NÚMERO DE CLIENTES	VENTAS (kWh)	INGRESOS US \$
EDEMET	426,846	351,009,370.00	60,588,014.37
ENSA	411,293	270,861,000.00	61,605,000.00
EDECHI	127,864	62,851,026.00	12,751,888.88
TOTAL	966,003	684,721,396.00	134,944,903



**VENTAS DE ENERGÍA POR EMPRESA
JULIO 2015**



**INGRESOS POR EMPRESA
JULIO 2015**

