



RENDIMIENTOS POR PLANTA

DESCRIPCIÓN	UNIDAD	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Plantas Térmicas		12.22	12.48	12.33	13.43	13.14	13.27	13.64	13.73	14.59	15.24
. Nicaragua (GEOSA)	kWh/Gln. Fuel Oil	13.03	13.33	13.18	13.80	13.47	13.50	13.42	13.61	13.47	13.34
. Managua (GECSA)		11.25	11.21	10.57	10.30	12.19	12.81	13.24	13.75	13.61	13.45
. Censa - AMFELS								16.37	15.37	15.37	15.63
. Empresa Energética de Corinto										17.55	17.49
. Tipitapa Power Company										16.71	16.73
. Generadora San Rafael, S.A. (Gesarsa)											
. Che Guevara I (Tipitapa) (ALBANISA)											
. Che Guevara II (Masaya) (ALBANISA)	kWh/Gln. Fuel Oil + Diesel										
. Che Guevara III (Managua) (ALBANISA)											
. Che Guevara IV (Masaya) (ALBANISA)											
. Che Guevara V (Masaya) (ALBANISA)											
. Che Guevara VI (Nagarote) (ALBANISA)											
. Che Guevara VII (Nagarote) (ALBANISA)											
. Che Guevara VIII (León) (ALBANISA)											
. Nic.Sugar Estate Ltd. (NSEL)	kWh/Gln. Fuel Oil								8.83	11.51	
. Nic.Sugar Estate Ltd. (NSEL)	kWh/Ton. Bagazo										241.19
. Monte Rosa											
. Agroindustrial Azucarera S.A. (Timal)								164.18	164.18	164.20	166.77
Plantas Hidroeléctricas		0.52	0.51	0.51	0.52	0.49	0.53	0.48	0.49	0.50	0.49
. Centroamérica	kWh/m³ Agua	0.60	0.60	0.62	0.60	0.60	0.60	0.60	0.60	0.60	0.60
. Santa Bárbara		0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
. Wabule		0.29	0.30	0.30	0.30	0.30	0.26	0.07	0.38	0.00	0.00
. Las Canoas		0.06	0.06	0.06	0.07	0.06			0.04	0.04	0.05
. Atder - BL El Bote											
Plantas Turbinas a Gas			7.72	8.99	10.26	10.50	9.87	9.69	10.01	11.82	12.70
. Chinandega (GEOSA)	kWh/Gln. Diesel	7.72	7.18	0.00	8.14	8.44	8.33	8.87	8.82	8.91	8.70
. Las Brisas (GECSA)			9.81	10.26	10.66	10.48	9.85	10.32	12.46	13.58	12.46
. Hugo Chavez (GECSA) - Motores Combustión Int.											
Planta Geotérmica		114.56	106.21	104.96	95.22	92.98	87.03	89.46	84.13	85.48	90.22
. Ormat Momotombo Power Company a/	kWh/Ton.Vapor Geotérmico	114.56	106.21	104.96	95.22	92.98	87.03	89.46	84.13	85.48	90.22
. Polaris Energy Nicaragua, S.A. (PENSA)											
. Ormat Energy Converters (OEC)	kWh/M³ Agua Caliente										
Sistemas Aislados	kWh/Gln. Diesel	12.66	12.92	12.19	12.16	12.13	11.82	11.70	12.48	11.65	11.47
Sistemas Aislados	kWh/Gln. Fuel Oil										
Sistemas Aislados	kWh/M³ Agua										

a/ A partir del mes de Julio de 1999 dada en arrendamiento a la empresa Ormat International Inc.



RENDIMIENTOS POR PLANTA

DESCRIPCION	UNIDAD	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Plantas Térmicas		15.23	15.11	15.34	15.36	15.49	15.28	16.11	15.76	15.79	15.57
. Nicaragua (GEOSA)	kWh/Gln. Fuel Oil	13.21	13.27	13.31	13.49	13.44	13.48	13.45	13.48	13.34	12.98
. Managua (GECSA)		13.09	12.85	12.74	12.72	12.74	12.22	13.00	12.42	12.41	12.39
. Censa - AMFELS		15.94	16.28	16.41	16.55	16.40	16.49	16.21	18.30	17.65	16.55
. Empresa Energética de Corinto		17.63	17.52	17.62	17.65	17.62	17.53	17.62	17.81	17.80	17.64
. Tipitapa Power Company		16.70	16.64	16.68	16.74	16.53	16.54	16.51	16.49	16.49	16.53
. Generadora San Rafael, S.A. (Gesarsa)		kWh/Gln. Fuel Oil+Diesel				12.71			14.55	14.26	14.95
. Che Guevara I (Tipitapa) (ALBANISA)	kWh/Gln. Fuel Oil + Diesel									16.25	16.36
. Che Guevara II (Masaya) (ALBANISA)										16.33	16.44
. Che Guevara III (Managua) (ALBANISA)										16.33	16.41
. Che Guevara IV (Masaya) (ALBANISA)										16.45	16.50
. Che Guevara V (Masaya) (ALBANISA)										16.43	16.49
. Che Guevara VI (Nagarote) (ALBANISA)										15.58	16.67
. Che Guevara VII (Nagarote) (ALBANISA)											16.15
. Che Guevara VIII (León) (ALBANISA)											16.66
. Nic.Sugar Estate Ltd. (NSEL)	kWh/Ton. Bagazo										
. Nic.Sugar Estate Ltd. (NSEL)		318.02	476.44	427.44	301.89	345.42	328.20	338.21	330.72	337.89	317.50
. Monte Rosa			184.11	254.34	196.27	351.24	355.76	354.41	355.58	360.23	346.00
. Agroindustrial Azucarera S.A. (Timal)											
Ptas. Hidroeléctricas		0.56	0.55	0.55	0.55	0.54	0.55	0.53	0.54	0.54	0.54
. Centroamérica	kWh/m³ Agua	0.61	0.60	0.60	0.60	0.60	0.60	0.58	0.60	0.60	0.60
. Santa Bárbara		0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
. Wabule											
. Las Canoas											
. Atder - BL El Bote								0.23	0.23	0.23	0.23
. Hugo Chavez (GECSA) - Motores Combustión Int.								14.48	14.28	14.35	14.10
Ptas. Turbinas a Gas		12.34	13.20	12.30	12.66	13.08	14.40	13.38	13.35	14.02	13.81
. Chinandega (GEOSA)	kWh/Gln. Diesel	7.62	8.84	7.48	7.28	7.25	7.43	0.00	0.00	0.00	0.00
. Las Brisas (GECSA)		12.77	13.36	12.58	12.91	13.27	14.56	12.64	11.00	12.69	13.07
. Hugo Chavez (GECSA) - Motores Combustión Int.								14.48	14.28	14.35	14.10
. Ormat Momotombo Power Company a/											
. Polaris Energy Nicaragua, S.A. (PENSA)	kWh/Ton.Vapor Geotérmico	100.25	108.11	121.56	114.86	108.16	100.68	95.60	97.71	90.79	90.79
. Ormat Energy Converters (OEC)	kWh/M³ Agua Caliente			6.20	6.06	6.06	6.06	6.06	6.07	6.06	6.06
Sistemas Aislados	kWh/Gln. Diesel	14.77	11.46	11.27	11.76	11.88	14.48	14.23	12.20	12.31	12.87
Sistemas Aislados	kWh/Gln. Fuel Oil+Diesel		14.35	14.07	13.77	12.61	13.99	13.46	13.92	13.44	13.85
Sistemas Aislados	kWh/M³ Agua		0.34	0.42	0.37	0.34	0.34	0.34	0.00	0.00	0.00

a/ A partir del mes de Julio de 1999 dada en arrendamiento a la empresa Ormat International Inc.