

**GENERACION BRUTA POR TIPO DE PLANTA
(GWH)**

PLANTAS ELECTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999
Plantas Térmicas	581.53	782.52	704.34	761.07	900.82	1,119.90	1,114.99	1,376.74	1,462.74
. Nicaragua (GEOSA)	338.15	499.37	507.19	699.30	680.44	729.01	624.95	717.99	590.01
. Managua (GECOSA)	243.38	283.15	197.15	61.77	220.39	361.45	339.94	385.85	238.95
. Censa - Amfels							120.78	213.90	166.39
. Empresa Energética de Corinto, Ltda.									129.74
. Tipitapa Power Company									282.75
. Generadora San Rafael, S.A. (Gesarsa)									
. Che Guevara I (Tipitapa) (GECOSA)									
. Che Guevara II (Masaya) (GECOSA)									
. Che Guevara III (Managua) (GECOSA)									
. Nic.Sugar Estate Ltd. (NSEL)								30.80	35.88
. Monte Rosa									
. Agroindustrial Azucarera S.A. (Timal)						29.44	29.32	28.20	19.01
Plantas Hidroeléctricas	336.68	256.95	482.96	383.21	406.91	430.71	407.14	295.56	393.26
. Centroamérica (HIDROGESA)	199.04	154.75	272.71	225.55	216.09	242.32	242.09	177.53	260.24
. Santa Bárbara (HIDROGESA)	134.45	98.40	203.64	151.96	181.87	180.18	156.19	112.46	129.51
. Wabule	1.52	2.11	2.67	3.02	3.65	0.96	3.05	2.81	-
. Las Canoas	1.67	1.70	3.94	2.69	5.29	7.25	5.81	2.76	3.50
. Atder - BL El Bote									
Plantas Turbinas a Gas	0.67	0.46	19.01	115.42	88.52	23.46	91.13	300.46	143.87
. Chinandega (GEOSA)	0.67	0.12	-	5.63	22.75	2.17	17.50	39.48	18.98
. Las Brisas (GECOSA)		0.35	19.01	109.79	65.76	21.28	73.62	260.98	124.89
. Hugo Chavez (GECOSA) - Motor Comb. Interna									
Plantas Geotérmicas	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14
. Ormat Momotombo Power Company	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14
. Polaris Energy Nicaragua, S.A. (PENSA)									
Sistema Interconectado Nacional (\$)	1,376.58	1,507.91	1,611.86	1,619.20	1,705.81	1,850.56	1,822.01	2,093.29	2,102.01
Sistemas Aislados (Diesel Oil)	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46
Sistemas Aislados (Fuel Oil)									
Sistemas Aislados (Hidro)									
Sistemas Aislados	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46
TOTAL (S.I.N. +Aislados)	1,393.62	1,528.60	1,634.71	1,643.11	1,727.31	1,864.02	1,836.23	2,110.53	2,123.47

Estadísticas del Sector Eléctrico

GENERACION BRUTA POR TIPO DE COMBUSTIBLE

(GWH)

PLANTAS ELECTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999
S.I.N.	1,376.58	1,507.91	1,611.86	1,619.20	1,705.81	1,850.56	1,822.01	2,093.29	2,102.01
Térmicas (Bunker)	581.53	782.52	704.34	761.07	900.82	1,090.46	1,085.67	1,317.74	1,407.85
Térmicas (Diesel)	0.67	0.46	19.01	115.42	88.52	23.46	91.13	300.46	143.87
Térmicas (Bagazo de Caña)	0.00	0.00	0.00	0.00	0.00	29.44	29.32	59.00	54.89
Hidroeléctricas	336.68	256.95	482.96	383.21	406.91	430.71	407.14	295.56	393.26
Geotérmicas	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14
SISTEMAS AISLADOS	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46
Térmicas (Fuel Oil)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Térmicas (Diesel)	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46
Hidroeléctricas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NACIONAL	1,393.62	1,528.60	1,634.71	1,643.11	1,727.31	1,864.02	1,836.23	2,110.53	2,123.47

GENERACION BRUTA POR TIPO DE GENERACION

(GWH)

PLANTAS ELECTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999
Hidroeléctricas	336.68	256.95	482.96	383.21	406.91	430.71	407.14	295.56	393.26
Geotérmicas	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14
Termoeléctricas (Fuel Oil + Diesel)	582.20	782.99	723.35	876.49	989.34	1,113.92	1,176.80	1,618.20	1,551.72
Térmicas (Bagazo de Caña)	0.00	0.00	0.00	0.00	0.00	29.44	29.32	59.00	54.89
TOTAL S.I.N.	1,376.58	1,507.91	1,611.86	1,619.20	1,705.81	1,850.56	1,822.01	2,093.29	2,102.01
Hidroeléctricas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Termoeléctricas (Fuel Oil + Diesel)	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46
TOTAL AISLADOS	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46
Hidroeléctricas	336.68	256.95	482.96	383.21	406.91	430.71	407.14	295.56	393.26
Geotérmicas	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14
Termoeléctricas (Fuel Oil + Diesel)	599.24	803.68	746.20	900.39	1,010.84	1,127.38	1,191.02	1,635.44	1,573.17
Térmicas (Bagazo de Caña)	0.00	0.00	0.00	0.00	0.00	29.44	29.32	59.00	54.89
TOTAL NACIONAL	1,393.62	1,528.60	1,634.71	1,643.11	1,727.31	1,864.02	1,836.23	2,110.53	2,123.47

GENERACION BRUTA POR TIPO DE GENERACION

(%)

PLANTAS ELECTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999
Hidroeléctricas	24.16	16.81	29.54	23.32	23.56	23.11	22.17	14.00	18.52
Geotérmicas	32.84	30.61	24.81	21.88	17.92	14.83	11.37	5.71	4.81
Termoeléctricas (Fuel Oil + Diesel)	41.78	51.22	44.25	53.34	57.28	59.76	64.09	76.67	73.07
Térmicas (Residuos Vegetales)	0.00	0.00	0.00	0.00	0.00	1.58	1.60	2.80	2.59
TOTAL S.I.N.	98.78	98.65	98.60	98.54	98.76	99.28	99.23	99.18	98.99
Hidroeléctricas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Termoeléctricas (Fuel Oil + Diesel)	1.22	1.35	1.40	1.46	1.24	0.72	0.77	0.82	1.01
TOTAL AISLADOS	1.22	1.35	1.40	1.46	1.24	0.72	0.77	0.82	1.01
Hidroeléctricas	24.16	16.81	29.54	23.32	23.56	23.11	22.17	14.00	18.52
Geotérmicas	32.84	30.61	24.81	21.88	17.92	14.83	11.37	5.71	4.81
Termoeléctricas (Fuel Oil + Diesel)	43.00	52.58	45.65	54.80	58.52	60.48	64.86	77.49	74.08
Térmicas (Residuos Vegetales)	0.00	0.00	0.00	0.00	0.00	1.58	1.60	2.80	2.59
TOTAL NACIONAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Estadísticas del Sector Eléctrico

**GENERACION BRUTA POR TIPO DE PLANTA
(GWH)**

PLANTAS ELECTRICAS	2000	2001	2002	2003	2004	2005	2006	2007	2008
Plantas Térmicas	1,837.75	1,990.88	2,064.25	2,151.08	2,284.39	2,282.42	2,404.29	2,380.02	2,392.93
. Nicaragua (GEOSA)	501.70	485.38	613.94	525.86	542.99	450.74	583.00	550.99	597.93
. Managua (GECSA)	230.53	266.80	205.38	200.62	235.14	195.00	198.94	227.72	227.28
. Censa - Amfels	142.94	250.19	196.34	297.76	327.66	328.12	319.51	224.33	158.18
. Empresa Energética de Corinto, Ltd	503.22	524.68	511.89	533.55	526.85	552.51	556.62	578.77	546.48
. Tipitapa Power Company	388.29	416.01	406.00	411.48	412.40	404.42	423.44	412.94	397.69
. Generadora San Rafael, S.A. (Gesarsa)					5.60	0.00	0.00	4.59	11.90
. Che Guevara I (Tipitapa) (GECSA)									50.26
. Che Guevara II (Masaya) (GECSA)									46.83
. Che Guevara III (Managua) (GECSA)									18.56
. Nic.Sugar Estate Ltd. (NSEL)	42.60	46.86	83.34	115.03	149.24	202.22	184.91	216.55	189.86
. Monte Rosa			47.34	66.78	84.51	149.40	137.87	164.12	147.97
. Agroindustrial Azucarera S.A. (Tim)	28.48	0.96							
Plantas Hidroeléctricas	209.55	196.80	303.34	297.39	320.97	433.10	307.61	306.47	534.45
. Centroamérica (HIDROGESA)	125.49	130.18	187.04	176.43	203.59	236.32	192.63	173.43	298.89
. Santa Bárbara (HIDROGESA)	81.72	66.53	116.30	120.96	117.39	196.78	114.98	132.07	231.86
. Wabule									
. Las Canoas	2.35	0.10							
. Atder - BL El Bote								0.98	3.70
Plantas Turbinas a Gas	59.76	49.15	12.84	21.65	27.54	27.04	72.30	236.16	63.84
. Chinandega (GEOSA)	3.82	2.55	0.29	0.73	0.71	0.49	0.82	-	-
. Las Brisas (GECSA)	55.94	46.60	12.54	20.92	26.83	26.55	71.48	133.55	14.97
. Hugo Chavez (GECSA) - Motor Comb. Interna								102.61	48.87
Plantas Geotérmicas	134.16	206.08	210.27	270.70	254.84	270.76	310.99	243.24	322.14
. Ormat Momotombo Power Compan	134.16	206.08	210.27	270.70	254.84	251.18	254.81	174.28	245.38
. Polaris Energy Nicaragua, S.A. (PENSA)						19.58	56.19	68.95	76.76
Sistema Interconectado Nacional (\$	2,241.22	2,442.91	2,590.69	2,740.82	2,887.74	3,013.32	3,095.19	3,165.89	3,313.37
Sistemas Aislados (Diesel Oil)	21.47	29.02	17.55	12.74	13.77	16.99	18.83	22.33	23.05
Sistemas Aislados (Fuel Oil)			11.24	17.82	19.01	20.44	22.99	20.85	24.54
Sistemas Aislados (Hidro)			0.47	0.59	0.55	0.51	0.44	0.09	-
Sistemas Aislados	21.47	29.02	29.26	31.14	33.34	37.95	42.25	43.27	47.59
TOTAL (S.I.N. +Aislados)	2,262.69	2,471.93	2,619.94	2,771.96	2,921.08	3,051.27	3,137.44	3,209.17	3,360.95

GENERACION BRUTA POR TIPO DE COMBUSTIBLE

(GWH)

PLANTAS ELECTRICAS	2000	2001	2002	2003	2004	2005	2006	2007	2008
S.I.N.	2,241.22	2,442.91	2,590.69	2,740.82	2,887.74	3,013.32	3,095.19	3,165.89	3,313.37
Térmicas (Bunker)	1,766.67	1,943.06	1,933.56	1,969.27	2,050.64	1,930.79	2,081.51	1,999.35	2,055.10
Térmicas (Diesel)	59.76	49.15	12.84	21.65	27.54	27.04	72.30	236.16	63.84
Térmicas (Bagazo de Caña)	71.09	47.82	130.69	181.81	233.75	351.62	322.78	380.67	337.83
Hidroeléctricas	209.55	196.80	303.34	297.39	320.97	433.10	307.61	306.47	534.45
Geotérmicas	134.16	206.08	210.27	270.70	254.84	270.76	310.99	243.24	322.14
SISTEMAS AISLADOS	21.47	29.02	29.26	31.14	33.34	37.95	42.25	43.27	47.59
Térmicas (Fuel Oil)	0.00	0.00	11.24	17.82	19.01	20.44	22.99	20.85	24.54
Térmicas (Diesel)	21.47	29.02	17.55	12.74	13.77	16.99	18.83	22.33	23.05
Hidroeléctricas	0.00	0.00	0.47	0.59	0.55	0.51	0.44	0.09	0.00
NACIONAL	2,262.69	2,471.93	2,619.94	2,771.96	2,921.08	3,051.27	3,137.44	3,209.17	3,360.95

GENERACION BRUTA POR TIPO DE GENERACION

(GWH)

PLANTAS ELECTRICAS	2000	2001	2002	2003	2004	2005	2006	2007	2008
Hidroeléctricas	209.55	196.80	303.34	297.39	320.97	433.10	307.61	306.47	534.45
Geotérmicas	134.16	206.08	210.27	270.70	254.84	270.76	310.99	243.24	322.14
Termoeléctricas (Fuel Oil + Diesel)	1,826.43	1,992.21	1,946.39	1,990.92	2,078.18	1,957.84	2,153.81	2,235.51	2,118.95
Térmicas (Bagazo de Caña)	71.09	47.82	130.69	181.81	233.75	351.62	322.78	380.67	337.83
TOTAL S.I.N.	2,241.22	2,442.91	2,590.69	2,740.82	2,887.74	3,013.32	3,095.19	3,165.89	3,313.37
Hidroeléctricas	0.00	0.00	0.47	0.59	0.55	0.51	0.44	0.09	0.00
Termoeléctricas (Fuel Oil + Diesel)	21.47	29.02	28.79	30.56	32.79	37.44	41.82	43.18	47.59
TOTAL AISLADOS	21.47	29.02	29.26	31.14	33.34	37.95	42.25	43.27	47.59
Hidroeléctricas	209.55	196.80	303.80	297.98	321.52	433.61	308.05	306.57	534.45
Geotérmicas	134.16	206.08	210.27	270.70	254.84	270.76	310.99	243.24	322.14
Termoeléctricas (Fuel Oil + Diesel)	1,847.90	2,021.23	1,975.18	2,021.48	2,110.97	1,995.27	2,195.62	2,278.69	2,166.53
Térmicas (Bagazo de Caña)	71.09	47.82	130.69	181.81	233.75	351.62	322.78	380.67	337.83
TOTAL NACIONAL	2,262.69	2,471.93	2,619.94	2,771.96	2,921.08	3,051.27	3,137.44	3,209.17	3,360.95

GENERACION BRUTA POR TIPO DE GENERACION

(%)

PLANTAS ELECTRICAS	2000	2001	2002	2003	2004	2005	2006	2007	2008
Hidroeléctricas	9.26	7.96	11.58	10.73	10.99	14.19	9.80	9.55	15.90
Geotérmicas	5.93	8.34	8.03	9.77	8.72	8.87	9.91	7.58	9.58
Termoeléctricas (Fuel Oil + Diesel)	80.72	80.59	74.29	71.82	71.14	64.16	68.65	69.66	63.05
Térmicas (Residuos Vegetales)	3.14	1.93	4.99	6.56	8.00	11.52	10.29	11.86	10.05
TOTAL S.I.N.	99.05	98.83	98.88	98.88	98.86	98.76	98.65	98.65	98.58
Hidroeléctricas	0.00	0.00	0.02	0.02	0.02	0.02	0.01	0.00	0.00
Termoeléctricas (Fuel Oil + Diesel)	0.95	1.17	1.10	1.10	1.12	1.23	1.33	1.35	1.42
TOTAL AISLADOS	0.95	1.17	1.12	1.12	1.14	1.24	1.35	1.35	1.42
Hidroeléctricas	9.26	7.96	11.60	10.75	11.01	14.21	9.82	9.55	15.90
Geotérmicas	5.93	8.34	8.03	9.77	8.72	8.87	9.91	7.58	9.58
Termoeléctricas (Fuel Oil + Diesel)	81.67	81.77	75.39	72.93	72.27	65.39	69.98	71.01	64.46
Térmicas (Residuos Vegetales)	3.14	1.93	4.99	6.56	8.00	11.52	10.29	11.86	10.05
TOTAL NACIONAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00