



GENERACIÓN BRUTA POR TIPO DE PLANTA

(GWH)

PLANTAS ELÉCTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Plantas Térmicas	581.53	782.52	704.34	761.07	900.82	1,119.90	1,114.99	1,376.74	1,462.74	1,837.75
. Nicaragua (GEOSA)	338.15	499.37	507.19	699.30	680.44	729.01	624.95	717.99	590.01	501.70
. Managua (GECSA)	243.38	283.15	197.15	61.77	220.39	361.45	339.94	385.85	238.95	230.53
. Censa - Amfels							120.78	213.90	166.39	142.94
. Empresa Energética de Corinto, Ltda.									129.74	503.22
. Tipitapa Power Company									282.75	388.29
. Generadora San Rafael, S.A. (Gesarsa)										
. Hugo Chávez (ALBANISA) - Motor Comb. Interna										
. Che Guevara I (Tipitapa) (ALBANISA)										
. Che Guevara II (Masaya) (ALBANISA)										
. 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)								30.80	35.88	42.60
. Monte Rosa										
. Agroindustrial Azucarera S.A. (Timal)						29.44	29.32	28.20	19.01	28.48
Plantas Hidroeléctricas	336.68	256.95	482.96	383.21	406.91	430.71	407.14	295.56	393.26	209.55
. Centroamérica (HIDROGESA)	199.04	154.75	272.71	225.55	216.09	242.32	242.09	177.53	260.24	125.49
. Santa Bárbara (HIDROGESA)	134.45	98.40	203.64	151.96	181.87	180.18	156.19	112.46	129.51	81.72
. 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	2.35
. 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	59.76
. Chinandega (GEOSA)	0.67	0.12	-	5.63	22.75	2.17	17.50	39.48	18.98	3.82
. Las Brisas (GECSA)		0.35	19.01	109.79	65.76	21.28	73.62	260.98	124.89	55.94
Plantas Geotérmicas	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14	134.16
. Ormat Momotombo Power Company a/	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14	134.16
. Polaris Energy Nicaragua, S.A. (PENSA)										
Plantas Eólicas										
. Consorcio Eólico, S.A. (AMAYO)										
Sistema Interconectado Nacional (SIN)	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	2,241.22
Sistemas Aislados (Diesel Oil)	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46	21.47
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	21.47
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	2,262.69



GENERACIÓN BRUTA POR TIPO DE INSUMOS

(GWH)

PLANTAS ELÉCTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
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	2,241.22
Térmicas (Bunker)	581.53	782.52	704.34	761.07	900.82	1,090.46	1,085.67	1,317.74	1,407.85	1,766.67
Térmicas (Diesel)	0.67	0.46	19.01	115.42	88.52	23.46	91.13	300.46	143.87	59.76
Térmicas (Bagazo de Caña)	0.00	0.00	0.00	0.00	0.00	29.44	29.32	59.00	54.89	71.09
Hidroeléctricas	336.68	256.95	482.96	383.21	406.91	430.71	407.14	295.56	393.26	209.55
Geotérmicas	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14	134.16
Eólicas										
SISTEMAS AISLADOS	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46	21.47
Térmicas (Fuel Oil)	0.00	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	21.47
Hidroeléctricas	0.00	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	2,262.69

GENERACIÓN BRUTA POR TIPO DE GENERACIÓN

(GWH)

PLANTAS ELÉCTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Hidroeléctricas	336.68	256.95	482.96	383.21	406.91	430.71	407.14	295.56	393.26	209.55
Geotérmicas	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14	134.16
Eólicas										
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	1,826.43
Térmicas (Bagazo de Caña)	0.00	0.00	0.00	0.00	0.00	29.44	29.32	59.00	54.89	71.09
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	2,241.22
Hidroeléctricas	0.00	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	21.47
TOTAL AISLADOS	17.04	20.69	22.85	23.91	21.50	13.46	14.22	17.23	21.46	21.47
Hidroeléctricas	336.68	256.95	482.96	383.21	406.91	430.71	407.14	295.56	393.26	209.55
Geotérmicas	457.69	467.97	405.55	359.51	309.55	276.50	208.75	120.53	102.14	134.16
Eólicas										
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	1,847.90
Térmicas (Bagazo de Caña)	0.00	0.00	0.00	0.00	0.00	29.44	29.32	59.00	54.89	71.09
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	2,262.69

GENERACIÓN BRUTA POR TIPO DE GENERACIÓN

(%)

PLANTAS ELÉCTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Hidroeléctricas	24.16	16.81	29.54	23.32	23.56	23.11	22.17	14.00	18.52	9.26
Geotérmicas	32.84	30.61	24.81	21.88	17.92	14.83	11.37	5.71	4.81	5.93
Eólicas										
Termoeléctricas (Fuel Oil + Diesel)	41.78	51.22	44.25	53.34	57.28	59.76	64.09	76.67	73.07	80.72
Térmicas (Residuos Vegetales)	0.00	0.00	0.00	0.00	0.00	1.58	1.60	2.80	2.59	3.14
TOTAL S.I.N.	98.78	98.65	98.60	98.54	98.76	99.28	99.23	99.18	98.99	99.05
Hidroeléctricas	0.00	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	0.95
TOTAL AISLADOS	1.22	1.35	1.40	1.46	1.24	0.72	0.77	0.82	1.01	0.95
Hidroeléctricas	24.16	16.81	29.54	23.32	23.56	23.11	22.17	14.00	18.52	9.26
Geotérmicas	32.84	30.61	24.81	21.88	17.92	14.83	11.37	5.71	4.81	5.93
Eólicas										
Termoeléctricas (Fuel Oil + Diesel)	43.00	52.58	45.65	54.80	58.52	60.48	64.86	77.49	74.08	81.67
Térmicas (Residuos Vegetales)	0.00	0.00	0.00	0.00	0.00	1.58	1.60	2.80	2.59	3.14
TOTAL NACIONAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00



GENERACIÓN BRUTA POR TIPO DE PLANTA

(GWH)

PLANTAS ELÉCTRICAS	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Plantas Térmicas	1,990.88	2,064.25	2,151.08	2,284.39	2,282.42	2,404.29	2,482.63	2,441.80	2,697.41	2,641.90
. Nicaragua (GEOSA)	485.38	613.94	525.86	542.99	450.74	583.00	550.99	597.93	531.34	397.42
. Managua (GECSA)	266.80	205.38	200.62	235.14	195.00	198.94	227.72	227.28	176.27	176.09
. Censa - Amfels	250.19	196.34	297.76	327.66	328.12	319.51	224.33	158.18	155.60	247.68
. Empresa Energética de Corinto, Ltda.	524.68	511.89	533.55	526.85	552.51	556.62	578.77	546.48	538.44	535.83
. Tipitapa Power Company	416.01	406.00	411.48	412.40	404.42	423.44	412.94	397.69	395.21	381.36
. Generadora San Rafael, S.A. (Gesarsa)				5.60	0.00	0.00	4.59	11.90	9.20	2.30
. Hugo Chávez (ALBANISA) - Motor Comb. Interna							102.61	48.87	39.69	10.56
. Che Guevara I (Tipitapa) (ALBANISA)								50.26	102.19	46.10
. Che Guevara II (Masaya) (ALBANISA)								46.83	97.25	45.68
. Che Guevara III (Managua) (ALBANISA)								18.56	105.48	59.53
. Che Guevara IV (Masaya) (ALBANISA)									92.77	45.35
. Che Guevara V (Masaya) (ALBANISA)									87.90	34.02
. Che Guevara VI (Nagarote) (ALBANISA)									3.50	65.00
. Che Guevara VII (Nagarote) (ALBANISA)										141.04
. Che Guevara VIII (León) (ALBANISA)										69.28
. Nic.Sugar Estate Ltd. (NSEL)	46.86	83.34	115.03	149.24	202.22	184.91	216.55	189.86	190.07	216.80
. Monte Rosa		47.34	66.78	84.51	149.40	137.87	164.12	147.97	172.50	167.84
. Agroindustrial Azucarera S.A. (Timal)	0.96									
Plantas Hidroeléctricas	196.80	303.34	297.39	320.97	433.10	307.61	306.47	534.45	296.72	503.15
. Centroamérica (HIDROGESA)	130.18	187.04	176.43	203.59	236.32	192.63	173.43	298.89	185.01	272.80
. Santa Bárbara (HIDROGESA)	66.53	116.30	120.96	117.39	196.78	114.98	132.07	231.86	108.59	226.94
. Wabule										
. Las Canoas	0.10									
. Atder - BL El Bote							0.98	3.70	3.11	3.41
Plantas Turbinas a Gas	49.15	12.84	21.65	27.54	27.04	72.30	133.55	14.97	8.95	3.92
. Chinandega (GEOSA)	2.55	0.29	0.73	0.71	0.49	0.82	-	-	-	-
. Las Brisas (GECSA)	46.60	12.54	20.92	26.83	26.55	71.48	133.55	14.97	8.95	3.92
Plantas Geotérmicas	206.08	210.27	270.70	254.84	270.76	310.99	243.24	322.14	296.53	302.11
. Ormat Momotombo Power Company a/	206.08	210.27	270.70	254.84	251.18	254.81	174.28	245.38	217.89	227.72
. Polaris Energy Nicaragua, S.A. (PENSA)					19.58	56.19	68.95	76.76	78.63	74.39
Plantas Eólicas									112.00	163.39
. Consorcio Eólico, S.A. (AMAYO)									112.00	163.39
Sistema Interconectado Nacional (SIN)	2,442.91	2,590.69	2,740.82	2,887.74	3,013.32	3,095.19	3,165.89	3,313.37	3,411.60	3,614.47
Sistemas Aislados (Diesel Oil)	29.02	17.55	12.74	13.77	16.99	18.83	22.33	23.05	16.37	15.17
Sistemas Aislados (Fuel Oil)		11.24	17.82	19.01	20.44	22.99	20.85	24.54	26.09	29.43
Sistemas Aislados (Hidro)		0.47	0.59	0.55	0.51	0.44	0.09	-	-	-
Sistemas Aislados	29.02	29.26	31.14	33.34	37.95	42.25	43.27	47.59	42.46	44.60
TOTAL (S.I.N. +Aislados)	2,471.93	2,619.94	2,771.96	2,921.08	3,051.27	3,137.44	3,209.17	3,360.95	3,454.06	3,659.07



GENERACIÓN BRUTA POR TIPO DE INSUMOS

(GWH)

PLANTAS ELÉCTRICAS	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
S.I.N.	2,442.91	2,590.69	2,740.82	2,887.74	3,013.32	3,095.19	3,165.89	3,313.37	3,411.60	3,614.47
Térmicas (Bunker)	1,943.06	1,933.56	1,969.27	2,050.64	1,930.79	2,081.51	1,999.35	2,055.10	2,295.15	2,246.69
Térmicas (Diesel)	49.15	12.84	21.65	27.54	27.04	72.30	236.16	63.84	48.65	14.48
Térmicas (Bagazo de Caña)	47.82	130.69	181.81	233.75	351.62	322.78	380.67	337.83	362.56	384.65
Hidroeléctricas	196.80	303.34	297.39	320.97	433.10	307.61	306.47	534.45	296.72	503.15
Geotérmicas	206.08	210.27	270.70	254.84	270.76	310.99	243.24	322.14	296.53	302.11
Eólicas									112.00	163.39
SISTEMAS AISLADOS	29.02	29.26	31.14	33.34	37.95	42.25	43.27	47.59	42.46	44.60
Térmicas (Fuel Oil)	0.00	11.24	17.82	19.01	20.44	22.99	20.85	24.54	26.09	29.43
Térmicas (Diesel)	29.02	17.55	12.74	13.77	16.99	18.83	22.33	23.05	16.37	15.17
Hidroeléctricas	0.00	0.47	0.59	0.55	0.51	0.44	0.09	0.00	0.00	0.00
NACIONAL	2,471.93	2,619.94	2,771.96	2,921.08	3,051.27	3,137.44	3,209.17	3,360.95	3,454.06	3,659.07

GENERACIÓN BRUTA POR TIPO DE GENERACIÓN

(GWH)

PLANTAS ELÉCTRICAS	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hidroeléctricas	196.80	303.34	297.39	320.97	433.10	307.61	306.47	534.45	296.72	503.15
Geotérmicas	206.08	210.27	270.70	254.84	270.76	310.99	243.24	322.14	296.53	302.11
Eólicas									112.00	163.39
Termoeléctricas (Fuel Oil + Diesel)	1,992.21	1,946.39	1,990.92	2,078.18	1,957.84	2,153.81	2,235.51	2,118.95	2,343.80	2,261.17
Térmicas (Bagazo de Caña)	47.82	130.69	181.81	233.75	351.62	322.78	380.67	337.83	362.56	384.65
TOTAL S.I.N.	2,442.91	2,590.69	2,740.82	2,887.74	3,013.32	3,095.19	3,165.89	3,313.37	3,411.60	3,614.47
Hidroeléctricas	0.00	0.47	0.59	0.55	0.51	0.44	0.09	0.00	0.00	0.00
Termoeléctricas (Fuel Oil + Diesel)	29.02	28.79	30.56	32.79	37.44	41.82	43.18	47.59	42.46	44.60
TOTAL AISLADOS	29.02	29.26	31.14	33.34	37.95	42.25	43.27	47.59	42.46	44.60
Hidroeléctricas	196.80	303.80	297.98	321.52	433.61	308.05	306.57	534.45	296.72	503.15
Geotérmicas	206.08	210.27	270.70	254.84	270.76	310.99	243.24	322.14	296.53	302.11
Eólicas									112.00	163.39
Termoeléctricas (Fuel Oil + Diesel)	2,021.23	1,975.18	2,021.48	2,110.97	1,995.27	2,195.62	2,278.69	2,166.53	2,386.25	2,305.77
Térmicas (Bagazo de Caña)	47.82	130.69	181.81	233.75	351.62	322.78	380.67	337.83	362.56	384.65
TOTAL NACIONAL	2,471.93	2,619.94	2,771.96	2,921.08	3,051.27	3,137.44	3,209.17	3,360.95	3,454.06	3,659.07

GENERACIÓN BRUTA POR TIPO DE GENERACIÓN

(%)

PLANTAS ELÉCTRICAS	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hidroeléctricas	7.96	11.58	10.73	10.99	14.19	9.80	9.55	15.90	8.59	13.75
Geotérmicas	8.34	8.03	9.77	8.72	8.87	9.91	7.58	9.58	8.58	8.26
Eólicas									3.24	4.47
Termoeléctricas (Fuel Oil + Diesel)	80.59	74.29	71.82	71.14	64.16	68.65	69.66	63.05	67.86	61.80
Térmicas (Residuos Vegetales)	1.93	4.99	6.56	8.00	11.52	10.29	11.86	10.05	10.50	10.51
TOTAL S.I.N.	98.83	98.88	98.88	98.86	98.76	98.65	98.65	98.58	98.77	98.78
Hidroeléctricas	0.00	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00	0.00
Termoeléctricas (Fuel Oil + Diesel)	1.17	1.10	1.10	1.12	1.23	1.33	1.35	1.42	1.23	1.22
TOTAL AISLADOS	1.17	1.12	1.12	1.14	1.24	1.35	1.35	1.42	1.23	1.22
Hidroeléctricas	7.96	11.60	10.75	11.01	14.21	9.82	9.55	15.90	8.59	13.75
Geotérmicas	8.34	8.03	9.77	8.72	8.87	9.91	7.58	9.58	8.58	8.26
Eólicas									3.24	4.47
Termoeléctricas (Fuel Oil + Diesel)	81.77	75.39	72.93	72.27	65.39	69.98	71.01	64.46	69.09	63.02
Térmicas (Residuos Vegetales)	1.93	4.99	6.56	8.00	11.52	10.29	11.86	10.05	10.50	10.51
TOTAL NACIONAL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00