



**GENERACIÓN NETA POR TIPO DE PLANTA
(GWH)**

DESCRIPCIÓN	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Plantas Térmicas	543.61	735.47	659.31	723.24	842.82	1,029.30	1,027.68	1,274.16	1,370.30	1,713.10
. Nicaragua (GEOSA)	321.19	477.25	482.05	666.76	636.64	680.73	583.64	672.18	552.00	468.15
. Managua (GECSA)	222.42	258.22	177.27	56.47	206.19	334.73	312.44	357.58	222.17	212.54
. Censa - Amfels							117.71	208.29	161.89	138.46
. Empresa Energética de Corinto, Ltda.									123.06	477.90
. Tipitapa Power Company									278.16	382.60
. 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)								23.69	25.05	27.19
. Monte Rosa										
. Agroindustrial Azucarera S.A. (Timal)						13.85	13.89	12.42	7.98	6.25
Plantas Hidroeléctricas	335.63	255.98	481.56	375.29	398.58	423.99	397.94	288.66	385.53	204.13
. Centroamérica (HIDROGESA)	198.56	154.30	272.12	218.38	208.59	236.40	233.67	171.27	253.15	120.68
. Santa Bárbara (HIDROGESA)	133.92	97.93	202.93	151.30	181.17	179.51	155.56	111.90	128.96	81.16
. Wabule	1.50	2.08	2.65	2.99	3.61	0.94	3.02	2.78	-	-
. Las Canoas	1.64	1.66	3.88	2.63	5.20	7.14	5.69	2.71	3.42	2.29
. Atder - BL El Bote										
Plantas Turbinas a Gas	0.67	0.46	18.89	115.06	88.22	23.31	90.66	296.36	138.79	57.55
. Chinandega (GEOSA)	0.67	0.12	-	5.59	22.55	2.13	17.18	38.73	18.64	3.75
. Las Brisas (GECSA)	-	0.35	18.89	109.47	65.66	21.18	73.48	257.63	120.15	53.80
Plantas Geotérmicas	427.66	435.10	376.62	327.84	280.75	243.27	187.37	107.13	90.39	120.75
. Ormat Momotombo Power Company a/	427.66	435.10	376.62	327.84	280.75	243.27	187.37	107.13	90.39	120.75
. Polaris Energy Nicaragua, S.A. (Pensa)										
Plantas Eólicas										
. Consorcio Eólico, S.A. (AMAYO)										
Sistema Interconectado Nacional (SIN)	1,307.57	1,427.01	1,536.39	1,541.43	1,610.38	1,719.87	1,703.66	1,966.30	1,985.02	2,095.53
Sistemas Aislados (Diesel Oil)	16.63	19.56	22.02	23.00	20.80	13.15	13.88	16.92	21.13	21.07
Sistemas Aislados (Fuel Oil)										
Sistemas Aislados (Hidro)										
Sistemas Aislados	16.63	19.56	22.02	23.00	20.80	13.15	13.88	16.92	21.13	21.07
TOTAL (S.I.N. +Aislados)	1,324.20	1,446.57	1,558.42	1,564.43	1,631.18	1,733.02	1,717.54	1,983.23	2,006.15	2,116.60

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

S.I.N. = Plantas Térmicas + Hidroeléctricas + Turbinas a Gas + Geotérmicas + Eólicas.



**GENERACIÓN NETA POR TIPO DE INSUMOS
(GWH)**

DESCRIPCIÓN	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
S.I.N.	1,307.57	1,427.01	1,536.39	1,541.43	1,610.38	1,719.87	1,703.66	1,966.30	1,985.02	2,095.53
Térmicas (Fuel Oil)	543.61	735.47	659.31	723.24	842.82	1,015.45	1,013.79	1,238.05	1,337.27	1,679.65
Térmicas (Diesel)	0.67	0.46	18.89	115.06	88.22	23.31	90.66	296.36	138.79	57.55
Térmicas (Residuos Vegetales)	0.00	0.00	0.00	0.00	0.00	13.85	13.89	36.11	33.02	33.45
Hidroeléctricas	335.63	255.98	481.56	375.29	398.58	423.99	397.94	288.66	385.53	204.13
Geotérmicas	427.66	435.10	376.62	327.84	280.75	243.27	187.37	107.13	90.39	120.75
Eólicas										
SISTEMAS AISLADOS	16.63	19.56	22.02	23.00	20.80	13.15	13.88	16.92	21.13	21.07
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)	16.63	19.56	22.02	23.00	20.80	13.15	13.88	16.92	21.13	21.07
Hidroeléctricas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NACIONAL	1,324.20	1,446.57	1,558.42	1,564.43	1,631.18	1,733.02	1,717.54	1,983.23	2,006.15	2,116.60

PLANTAS ELÉCTRICAS	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Hidroeléctricas	335.63	255.98	481.56	375.29	398.58	423.99	397.94	288.66	385.53	204.13
Geotérmicas	427.66	435.10	376.62	327.84	280.75	243.27	187.37	107.13	90.39	120.75
Eólicas										
Termoeléctricas (Fuel Oil + Diesel)	544.28	735.93	678.21	838.29	931.04	1,038.77	1,104.45	1,534.41	1,476.07	1,737.20
Térmicas (Residuos Vegetales)	0.00	0.00	0.00	0.00	0.00	13.85	13.89	36.11	33.02	33.45
TOTAL S.I.N.	1,307.57	1,427.01	1,536.39	1,541.43	1,610.38	1,719.87	1,703.66	1,966.30	1,985.02	2,095.53
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)	16.63	19.56	22.02	23.00	20.80	13.15	13.88	16.92	21.13	21.07
TOTAL AISLADOS	16.63	19.56	22.02	23.00	20.80	13.15	13.88	16.92	21.13	21.07
Hidroeléctricas	335.63	255.98	481.56	375.29	398.58	423.99	397.94	288.66	385.53	204.13
Geotérmicas	427.66	435.10	376.62	327.84	280.75	243.27	187.37	107.13	90.39	120.75
Eólicas										
Termoeléctricas (Fuel Oil + Diesel)	560.92	755.48	700.23	861.29	951.84	1,051.91	1,118.33	1,551.33	1,497.20	1,758.27
Térmicas (Residuos Vegetales)	0.00	0.00	0.00	0.00	0.00	13.85	13.89	36.11	33.02	33.45
TOTAL NACIONAL	1,324.20	1,446.57	1,558.42	1,564.43	1,631.18	1,733.02	1,717.54	1,983.23	2,006.15	2,116.60

Dirección de Estudios Económicos y Tarifas - INE



GENERACIÓN NETA POR TIPO DE PLANTA

(GWH)

DESCRIPCIÓN	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Plantas Térmicas	1,878.15	1,926.57	2,008.09	2,082.79	2,045.59	2,183.35	2,244.00	2,202.69	2,438.78	2,389.52
. Nicaragua (GEOSA)	452.44	571.25	487.11	505.28	419.68	546.15	515.98	559.60	496.43	370.66
. Managua (GECSA)	241.92	183.05	183.87	216.88	179.17	180.02	211.42	209.11	161.96	162.51
. Censa - Amfels	242.60	189.91	289.17	318.51	319.61	314.24	217.65	153.50	150.97	240.69
. Empresa Energética de Corinto, Ltda.	497.47	485.14	505.95	499.59	523.87	528.40	550.12	518.84	511.18	508.61
. Tipitapa Power Company	410.21	401.44	407.89	409.06	399.83	420.18	409.24	392.96	390.61	376.70
. Generadora San Rafael, S.A. (Gesarsa)				5.55	0.00	0.00	4.50	11.60	8.98	2.24
. Hugo Chávez (ALBANISA) - Motor Comb. Interna							99.81	47.56	39.17	10.35
. Che Guevara I (Tipitapa) (ALBANISA)								48.63	98.95	44.93
. Che Guevara II (Masaya) (ALBANISA)								45.28	94.04	44.21
. Che Guevara III (Managua) (ALBANISA)								17.99	102.18	57.74
. Che Guevara IV (Masaya) (ALBANISA)									89.93	43.87
. Che Guevara V (Masaya) (ALBANISA)									85.02	32.91
. Che Guevara VI (Nagarote) (ALBANISA)									3.35	63.61
. Che Guevara VII (Nagarote) (ALBANISA)									-	138.17
. Che Guevara VIII (León) (ALBANISA)									-	67.77
. Nic.Sugar Estate Ltd. (NSEL)	32.55	72.99	97.36	84.19	113.60	100.42	122.38	98.25	87.93	113.48
. Monte Rosa		22.80	36.74	43.73	89.83	93.93	112.90	99.37	118.07	111.08
. Agroindustrial Azucarera S.A. (Timal)	0.96									
Plantas Hidroeléctricas	189.50	296.05	291.76	311.41	426.25	299.25	300.56	529.47	290.16	499.25
. Centroamérica (HIDROGESA)	123.46	180.20	171.31	194.59	230.25	184.88	168.17	294.82	179.00	269.78
. Santa Bárbara (HIDROGESA)	65.95	115.85	120.45	116.82	196.00	114.37	131.41	230.97	108.06	226.08
. Wabule	-	-	-							
. Las Canoas	0.09	-	-							
. Atder - BL El Bote							0.97	3.68	3.10	3.39
Plantas Turbinas a Gas	44.91	11.11	18.86	26.00	25.34	69.13	107.12	14.05	8.26	3.61
. Chinandega (GEOSA)	2.50	0.18	0.72	0.70	0.49	0.82	0.00	0.00	0.00	0.00
. Las Brisas (GECSA)	42.41	10.94	18.14	25.29	24.85	68.31	107.12	14.05	8.26	3.61
Plantas Geotérmicas	187.56	191.22	242.40	227.16	241.21	276.98	211.06	289.84	262.84	268.25
. Ormat Momotombo Power Company a/	187.56	191.22	242.40	227.16	223.17	225.58	146.45	218.38	189.96	199.62
. Polaris Energy Nicaragua, S.A. (Pensa)					18.05	51.39	64.62	71.46	72.88	68.63
Plantas Eólicas									109.22	160.30
. Consorcio Eólico, S.A. (AMAYO)									109.22	160.30
Sistema Interconectado Nacional (SIN)	2,300.11	2,424.96	2,561.11	2,647.35	2,738.39	2,828.71	2,862.75	3,036.05	3,109.26	3,320.92
Sistemas Aislados (Diesel Oil)	28.49	17.34	12.58	13.63	16.80	18.50	21.92	22.72	16.19	14.92
Sistemas Aislados (Fuel Oil)		10.90	17.33	18.42	19.70	22.09	19.87	23.35	24.91	28.18
Sistemas Aislados (Hidro)		0.30	0.42	0.40	0.37	0.31	0.06	0.00	0.00	0.00
Sistemas Aislados	28.49	28.53	30.34	32.45	36.87	40.90	41.86	46.08	41.09	43.10
TOTAL (S.I.N. +Aislados)	2,328.61	2,453.49	2,591.44	2,679.81	2,775.26	2,869.61	2,904.60	3,082.12	3,150.35	3,364.02

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

S.I.N. = Plantas Térmicas + Hidroeléctricas + Turbinas a Gas + Geotérmicas + Eólicas.



**GENERACIÓN NETA POR TIPO DE INSUMOS
(GWH)**

DESCRIPCIÓN	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
S.I.N.	2,300.11	2,424.96	2,561.11	2,647.35	2,738.39	2,828.71	2,862.75	3,036.05	3,109.26	3,320.92
Térmicas (Fuel Oil)	1,844.65	1,830.78	1,873.99	1,954.87	1,842.16	1,989.00	1,908.90	1,957.51	2,193.60	2,154.61
Térmicas (Diesel)	44.91	11.11	18.86	26.00	25.34	69.13	206.94	61.61	47.44	13.96
Térmicas (Residuos Vegetales)	33.50	95.79	134.10	127.92	203.43	194.35	235.29	197.62	206.00	224.56
Hidroeléctricas	189.50	296.05	291.76	311.41	426.25	299.25	300.56	529.47	290.16	499.25
Geotérmicas	187.56	191.22	242.40	227.16	241.21	276.98	211.06	289.84	262.84	268.25
Eólicas									109.22	160.30
SISTEMAS AISLADOS	28.49	28.53	30.34	32.45	36.87	40.90	41.86	46.08	41.09	43.10
Térmicas (Fuel Oil)	0.00	10.90	17.33	18.42	19.70	22.09	19.87	23.35	24.91	28.18
Térmicas (Diesel)	28.49	17.34	12.58	13.63	16.80	18.50	21.92	22.72	16.19	14.92
Hidroeléctricas	0.00	0.30	0.42	0.40	0.37	0.31	0.06	0.00	0.00	0.00
NACIONAL	2,328.61	2,453.49	2,591.44	2,679.81	2,775.26	2,869.61	2,904.60	3,082.12	3,150.35	3,364.02

PLANTAS ELÉCTRICAS	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Hidroeléctricas	189.50	296.05	291.76	311.41	426.25	299.25	300.56	529.47	290.16	499.25
Geotérmicas	187.56	191.22	242.40	227.16	241.21	276.98	211.06	289.84	262.84	268.25
Eólicas									109.22	160.30
Termoeléctricas (Fuel Oil + Diesel)	1,889.55	1,841.89	1,892.85	1,980.86	1,867.50	2,058.12	2,115.84	2,019.11	2,241.04	2,168.57
Térmicas (Residuos Vegetales)	33.50	95.79	134.10	127.92	203.43	194.35	235.29	197.62	206.00	224.56
TOTAL S.I.N.	2,300.11	2,424.96	2,561.11	2,647.35	2,738.39	2,828.71	2,862.75	3,036.05	3,109.26	3,320.92
Hidroeléctricas	0.00	0.30	0.42	0.40	0.37	0.31	0.06	0.00	0.00	0.00
Termoeléctricas (Fuel Oil + Diesel)	28.49	28.24	29.92	32.05	36.49	40.59	41.79	46.08	41.09	43.10
TOTAL AISLADOS	28.49	28.53	30.34	32.45	36.87	40.90	41.86	46.08	41.09	43.10
Hidroeléctricas	189.50	296.34	292.18	311.82	426.62	299.57	300.62	529.47	290.16	499.25
Geotérmicas	187.56	191.22	242.40	227.16	241.21	276.98	211.06	289.84	262.84	268.25
Eólicas									109.22	160.30
Termoeléctricas (Fuel Oil + Diesel)	1,918.05	1,870.13	1,922.76	2,012.91	1,904.00	2,098.71	2,157.63	2,065.19	2,282.13	2,211.67
Térmicas (Residuos Vegetales)	33.50	95.79	134.10	127.92	203.43	194.35	235.29	197.62	206.00	224.56
TOTAL NACIONAL	2,328.61	2,453.49	2,591.44	2,679.81	2,775.26	2,869.61	2,904.60	3,082.12	3,150.35	3,364.02

Dirección de Estudios Económicos y Tarifas - INE