

1.3) Electrical Energy Balance – National Market (MWh)

	2007	2008	2009	2010	2011
Net Generation (a)	959.123	458.762	742.493	1.139.984	948.604
Purchased Energy (b)	7.901.354	8.627.954	9.298.357	9.457.234	10.210.635
Import Energy (c)	0	83	0	0	0
Export Energy (d)	561.817	198.749	509.771	400.423	140.311
Net Energy Available (e=a+b+c-d)	8.298.659	8.888.050	9.531.080	10.196.795	11.018.928
Own Energy Consumption (f)	9.807	10.555	11.149	9.962	19.453
Total Energy Loss (g)	2.708.409	2.902.506	3.068.799	3.322.238	3.428.954
Total Billed Energy (h=e-f-g)	5.580.443	5.974.989	6.451.131	6.864.594	7.570.520

1.4) Electrical Power Losses – National Market (%)

	2007	2008	2009	2010	2011
Transmission	7,5	9,0	7,6	7,6	7,6
Distribution	25,1	23,6	24,6	25,0	23,5
Total	32,6	32,6	32,2	32,6	31,1

1.5) Electrical Power Consumption by Systems (MWh)

	2007	2008	2009	2010	2011
Metropolitan	4.495.896	4.608.465	5.030.163	5.350.571	5.701.299
Center	695.550	785.890	833.743	900.000	976.585
South	648.821	700.572	747.787	804.588	889.612
North	304.088	318.931	373.928	411.177	428.861
East	1.424.042	1.559.043	1.682.596	1.813.605	2.028.185
West	100.650	107.219	128.399	131.687	146.828
Total Electrical System	7.669.048	8.080.120	8.796.617	9.411.629	10.171.369
Own Consumption (*1)	7.141	7.776	7.973	7.874	8.308
Transmission Loss	623.310	800.492	726.521	778.097	840.186
Total Interconnected National System	8.299.498	8.888.388	9.531.110	10.197.601	11.019.864

Obs.: (*1) Own consumption in generation and transmission.

1.6) Peak Power Demand by Systems (MW)

	2007	2008	2009	2010	2011
Metropolitan	830	878	992	1.006	1.146
Center	139	161	173	180	203
South	131	139	154	162	184
North	57	67	73	81	87
East	264	284	309	331	366
West	20	23	27	27	31
Total Systems (non-simultaneous)	1.441	1.551	1.728	1.787	2.017
Coincidence Factor	0.95	0.96	0.94	0.97	0.96
Total Systems (simultaneous)	1.371	1.486	1.619	1.725	1.939
Transmission Loss	150	163	191	167	198
Total Interconnected National System	1.521	1.648	1.810	1.892	2.137

II. TRANSMISSION

	2007	2008	2009	2010	2011
Transmission Lines (km)					
500 kV	16	16	16	16	16
220 kV	3.672	3.672	3.672	4.048	4.090
66 kV	1.372	1.372	1.394	1.403	1.409
Transformer Capacity (MVA)					
500/220 kV	2.000	2.000	2.000	2.375	2.375
220/66 kV	1.671	1.703	1.703	1.903	2.101
220/23kV	918	921	1.033	1.163	1.361
66/23 kV	1.361	1.401	1.527	1.706	1.808
Substation (N°)	62	63	67	67	70

Obs.: The values correspond to the cumulative total as of december of each year.

III. DISTRIBUTION

3.1) Distribution System

	2007	2008	2009	2010	2011
Distribution Lines (km)					
Medium Voltage	29.948	30.593	30.911	32.482	33.338
Low Voltage	28.462	28.662	28.774	29.506	29.866
Distribution Transformers					
Number of Transformers	36.070	37.415	37.947	38.103	39.425
Installed Capacity (MVA)	2.334	2.368	2.399	2.426	2.484
Public Ligthting (N°)	117.372	123.990	125.150	126.612	132.481
Connected Customers (N°)	1.159.144	1.198.432	1.230.562	1.271.785	1.312.757

Obs.: The values correspond to the cumulative total as of december of each year.

3.2) Service Interruption Index – Metropolitan Area

	2007	2008	2009	2010	2011
Equivalent Frequency Interruption by Capacity (N°/kVA-year)	14,9	17,2	16,9	15,3	16,3
Equivalent Duration Interruption by Capacity (hours/kVA-year)	7,2	12,4	11,4	12,4	10,7

IV. COMMERCIALIZATION

4.1) Billed Energy (MWh)

	2007	2008	2009	2010	2011
Residential	2.300.746	2.472.885	2.691.463	2.848.571	3.204.965
Commercial	1.050.721	1.136.234	1.217.851	1.266.325	1.404.820
Industrial	1.463.326	1.536.273	1.517.290	1.623.020	1.709.464
General	429.510	482.513	490.293	496.661	592.259
Government	194.247	197.412	369.457	470.323	489.290
Public Lighting	141.893	149.672	164.776	159.696	169.722
Total Nacional Market	5.580.443	5.974.989	6.451.131	6.864.594	7.570.520
Export	516.677	187.682	448.213	355.233	135.862
Total	6.097.121	6.162.671	6.899.345	7.219.827	7.706.382

4.2) Revenue from Energy (million G)

	2007	2008	2009	2010	2011
Residential	818.676	873.905	952.792	1.005.170	1.160.231
Commercial	362.050	390.553	412.863	429.359	482.140
Industrial	316.664	343.917	352.177	373.193	412.150
General	116.972	128.107	136.887	144.084	162.097
Government	54.297	54.115	79.703	95.285	128.296
Public Lighting	67.660	67.839	65.644	64.030	63.968
Total Nacional Market	1.736.319	1.858.435	2.000.066	2.111.121	2.408.882
Export	48.651	20.838	119.915	90.809	42.263
Total	1.784.971	1.879.273	2.119.980	2.201.929	2.451.144

4.3) Billed Customers (N°)

	2007	2008	2009	2010	2011
Residential	932.967	974.815	998.595	1.027.864	1.058.182
Commercial	108.900	112.141	112.448	115.058	116.851
Industrial	14.593	15.964	16.715	17.511	18.573
General	19.177	20.938	20.837	21.297	21.514
Government	7.106	7.474	10.548	10.971	11.510
Public Lighting	0	0	0	0	0
Total Nacional Market	1.082.743	1.131.332	1.159.143	1.192.701	1.226.630
Export	2	1	1	1	1
Total	1.082.745	1.131.333	1.159.144	1.192.702	1.226.631

Obs.: The figures correspond to the 31st of december of each year.

4.4) Average Consumption per Customers (kWh/mes)

	2007	2008	2009	2010	2011
Residential	206	211	225	231	252
Commercial	804	844	903	917	1.002
Industrial	8.356	8.019	7.565	7.724	7.670
General	1.866	1.920	1.961	1.943	2.294
Government	2.278	2.201	2.919	3.572	3.542
Public Lighting	0	0	0	0	0
Total Nacional Market	429	440	464	480	514

4.5) Electricity Consumption per Capita

	2007	2008	2009	2010	2011
National Consumption (MWh)	5.580.443	5.974.989	6.451.131	6.864.594	7.570.520
Total Population (inhabitants) (*1)	6.119.642	6.230.143	6.340.639	6.451.122	6.561.785
Electricity Consumption per Capita (kWh/año)	912	959	1.017	1.064	1.154

Obs.: (*1) Estimated population as of 31st of december of each year.

4.6) National Electricity Coverage

	2007	2008	2009	2010	2011
Served Population (inhabitants)	5.864.503	6.084.206	6.265.572	6.473.417	6.517.224
Total Population (inhabitants) (*1)	6.174.645	6.285.148	6.395.642	6.506.218	6.616.976
National Electricity Coverage (%)	95,0	96,8	98,0	99,5	98,5

Obs.: (*1) Estimated population as of 31st of december of each year.

V. ELECTRICITY RATES

5.1) Average Rates of Electricity (G/kWh)

	2007	2008	2009	2010	2011
Residential	355,8	353,4	354,0	352,9	362,0
Commercial	344,6	343,7	339,0	339,1	343,2
Industrial	216,4	223,9	232,1	229,9	241,1
General	272,3	265,5	279,2	290,1	273,7
Government	279,5	274,1	215,7	202,6	262,2
Public Lighting	476,8	453,3	398,4	401,0	376,9
Average Nacional Market	311,1	311,0	310,0	307,5	318,2

Obs.: Tax not included.

5.2) Social Tariffs for Electricity

	2007	2008	2009	2010	2011
Subsidized Customers (N°) (*1)	321.630	290.967	284.126	280.048	281.756
Subsidized Amount (million G)	37.601	37.702	43.841	44.924	53.050

(*1) Values correspond to the average of the period from January to December of each year.

VI. HUMAN RESOURCES

6.1) Permanent Employees by Occupational Level (N°)

	2007	2008	2009	2010	2011
Professional	600	612	612	639	674
Technical	587	598	601	588	596
Administrative	1.048	1.061	1.089	1.131	1.199
Operational	1.090	1.104	1.127	1.172	1.286
Total	3.325	3.375	3.429	3.530	3.755

Obs.: Values correspond to the 31st of December of each year.

6.2) Permanent Employees by Sector (N°)

	2007	2008	2009	2010	2011
Generation	399	405	411	424	451
Transmission	366	371	377	388	413
Distribution	964	979	994	1.024	1.089
Commercialization	698	709	720	741	789
Administrative	898	911	927	954	1.013
Total	3.325	3.375	3.429	3.531	3.755

Obs.: Values correspond to the 31st of December of each year.

6.3) Personnel Index

	2007	2008	2009	2010	2011
Connected Customers per Employee (N°/employee)	349	355	359	360	350
Billed Electricity per Employee (MWh/employee-year)	1.678	1.770	1.881	1.945	2.016

VII. FINANCIAL MANAGEMENT

7.1) Balance Sheet (million G)

	2007	2008	2009	2010	2011
Assets					
Current	1.772.456	2.114.980	2.406.128	2.528.783	2.507.938
Non-current	6.608.903	7.277.291	6.676.617	7.320.565	7.760.275
Total Assets	8.381.359	9.392.271	9.082.745	9.849.348	10.268.213
Liabilities					
Current	854.171	834.998	967.024	1.106.345	925.523
Non-current	1.877.332	1.798.327	1.530.998	1.628.233	1.454.441
Total Liabilities	2.731.503	2.633.326	2.498.022	2.734.578	2.379.964
Equity	5.649.856	6.758.945	6.584.723	7.114.770	7.888.250
Total Liabilities and Equity	8.381.359	9.392.271	9.082.745	9.849.348	10.268.213

7.2) Income Statement (million G)

	2007	2008	2009	2010	2011
Operating Income (a)	1.873.772	1.958.716	2.212.802	2.272.446	2.533.689
Operating Expenses (b)	1.555.403	1.626.487	1.897.880	1.989.551	2.146.192
Net Operating Income (c=a-b)	318.369	332.229	314.922	282.895	387.497
Non-Operating Income (d)	263.125	295.763	294.935	296.101	706.721
Non-Operating Expense (e)	152.108	147.448	132.841	221.687	499.547
Profit Before Tax (f=c+d-e)	429.386	480.544	477.016	357.309	594.671
Income Tax Expense (g)	30.088	44.657	26.436	27.345	55.120
Net Profit For The Year (h=f-g)	399.298	435.887	450.580	329.964	539.551

7.3) Profitability Rate – Law 966/64

	2007	2008	2009	2010	2011
Net Revenue (billion G) [a]	318.369	332.229	314.922	282.895	387.497
Immobilized Investment (billion G) [b]	5.046.735	5.232.344	4.713.197	4.926.935	5.476.579
Profitability Rate (%) [c=(a/b)x100]	6,31	6,35	6,68	5,74	7,08

7.4) Generation Cost (G/kWh)

	2007	2008	2009	2010	2011
Hydro Generation	52,9	123,5	70,5	50,5	63,9
Thermal Generation	15.571,6	18.275,5	15.057,8	13.470,7	17.455,6
Purchased Energy	112,1	103,3	128,4	129,2	118,0
Average Cost of Generation	106,7	105,5	125,1	121,8	114,7

ANDE's Mission Statement:

To satisfy the country's electrical power needs and act in the regional electricity sector, with social and environmental responsibility, to excel in management and provision of services in order to contribute towards national development and to the welfare of its population.



Office for General Planning and Corporate Policy
Research and Investment Division
Statistical Research Department

STATISTICAL SUMMARY

2007-2011

I. GENERATION

1.1) Origin of Electrical Energy (MWh)

	2007	2008	2009	2010	2011
Gross Generated Energy					
Acaray	960.310	459.858	743.814	1.141.482	949.913
Pedro J. Caballero	19	39	23	0	0
Bahía Negra, Nueva Mestre	615	603	671	674	800
Salto del Guairá	0	0	40	194	104
Gross Total Energy	960.945	460.500	744.548	1.142.350	950.816
Purchased Energy					
Itaipú	7.570.341	7.760.008	7.348.019	7.272.103	8.036.041
Yacyretá	331.012	867.946	1.950.338	2.185.131	2.174.594
Total Purchased Energy	7.901.354	8.627.954	9.298.357	9.457.234	10.210.635
Energy Imports					
Enersul (Br)	0	26	0	0	0
Emsa (Ar)	0	57	0	0	0
Total Energy Imports	0	83	0	0	0
Total Origin	8.862.298	9.088.537	10.042.905	10.599.584	11.161.451

1.2) Destination of Electrical Energy (MWh)

	2007	2008	2009	2010	2011
National Consumption					
Interconnected National System	8.299.498	8.888.388	9.531.110	10.197.601	11.019.864
Bahía Negra, Nueva Mestre	615	603	671	674	800
Total National Consumption	8.300.114	8.888.991	9.531.781	10.198.274	11.020.664
Energy Export					
Ebisa (Ar)	366.391	199.546	510.934	401.310	140.788
Copel (Br)	195.794	0	190	0	0
Total Energy Export	562.185	199.546	511.124	401.310	140.788
Total Destination	8.862.298	9.088.537	10.042.905	10.599.584	11.161.451