

## [ANEXO N°1]

### Información base y limpieza de data

- Alimentador A5-C1

DEMAND (kVA)									
<i>Date data</i> (t)	<i>Time base</i> (t)	<i>Original data</i> (At)	<i>Standard Deviation</i> (D)	<i>Local 2 point Prom data</i> (x')	<i>MIN VALUE</i> (x'-2D)	<i>MAX VALUE</i> (x'+2D)	<i>Clean data</i> (At)	<i>OK Original data</i> (????)	
dic-95	1	624	273	624	79	1.169	1.248	LOW VALUE	
ene-96	2	600		624	79	1.169	1.224	LOW VALUE	
feb-96	3	624		588	43	1.133	1.248	LOW VALUE	
mar-96	4	576		588	43	1.133	1.200	LOW VALUE	
abr-96	5	552		696	151	1.241	1.176	LOW VALUE	
may-96	6	816		612	67	1.157	1.440	LOW VALUE	
jun-96	7	672		740	195	1.285	1.296	LOW VALUE	
jul-96	8	664		352	(193)	897	1.288	LOW VALUE	
ago-96	9	32		648	103	1.193	727	LOW VALUE	
sep-96	10	632		452	(93)	997	1.256	LOW VALUE	
oct-96	11	872		636	91	1.181	1.496	LOW VALUE	
nov-96	12	640		756	211	1.301	1.264	LOW VALUE	
dic-96	13	640		724	179	1.269	1.264	LOW VALUE	
ene-97	14	808		704	159	1.249	1.432	LOW VALUE	
feb-97	15	768		792	247	1.337	1.392	LOW VALUE	
mar-97	16	776		828	283	1.373	1.400	LOW VALUE	
abr-97	17	888		840	295	1.385	1.512	LOW VALUE	
may-97	18	904		892	347	1.437	1.528	LOW VALUE	
jun-97	19	896		908	363	1.453	1.520	LOW VALUE	
jul-97	20	912		768	223	1.313	1.536	LOW VALUE	
ago-97	21	640		908	363	1.453	1.264	LOW VALUE	
sep-97	22	904		784	239	1.329	1.528	LOW VALUE	
oct-97	23	928		872	327	1.417	1.552	LOW VALUE	
nov-97	24	840		884	339	1.429	1.464	LOW VALUE	

dic-97	25	840	864	319	1.409	1.464	LOW VALUE
ene-98	26	888	800	255	1.345	1.512	LOW VALUE
feb-98	27	760	824	279	1.369	1.384	LOW VALUE
mar-98	28	760	736	191	1.281	1.384	LOW VALUE
abr-98	29	712	736	191	1.281	1.336	LOW VALUE
may-98	30	712	852	307	1.397	1.336	LOW VALUE
jun-98	31	992	848	303	1.393	1.616	LOW VALUE
jul-98	32	984	888	343	1.433	1.608	LOW VALUE
ago-98	33	784	932	387	1.477	1.408	LOW VALUE
sep-98	34	880	804	259	1.349	1.504	LOW VALUE
oct-98	35	824	832	287	1.377	1.448	LOW VALUE
nov-98	36	784	800	255	1.345	1.408	LOW VALUE
dic-98	37	776	748	203	1.293	1.400	LOW VALUE
ene-99	38	712	812	267	1.357	1.336	LOW VALUE
feb-99	39	848	756	211	1.301	1.472	LOW VALUE
mar-99	40	800	792	247	1.337	1.424	LOW VALUE
abr-99	41	736	820	275	1.365	1.360	LOW VALUE
may-99	42	840	780	235	1.325	1.464	LOW VALUE
jun-99	43	824	840	295	1.385	1.448	LOW VALUE
jul-99	44	840	844	299	1.389	1.464	LOW VALUE
ago-99	45	864	780	235	1.325	1.488	LOW VALUE
sep-99	46	720	832	287	1.377	1.344	LOW VALUE
oct-99	47	800	816	271	1.361	1.424	LOW VALUE
nov-99	48	912	669	124	1.214	1.536	LOW VALUE
dic-99	49	538	1.084	539	1.629	1.163	LOW VALUE
ene-00	50	1256	890	344	1.435	1.256	OK
feb-00	51	1241	1.287	741	1.832	1.241	OK
mar-00	52	1317	1.343	798	1.888	1.317	OK
abr-00	53	1445	1.435	889	1.980	1.445	OK
may-00	54	1552	1.499	953	2.044	1.552	OK
jun-00	55	1552	1.521	975	2.066	1.552	OK
jul-00	56	1489	1.462	917	2.007	1.489	OK
ago-00	57	1372	1.456	911	2.001	1.372	OK
sep-00	58	1423	1.437	892	1.982	1.423	OK
oct-00	59	1502	1.438	892	1.983	1.502	OK
nov-00	60	1452	1.438	892	1.983	1.452	OK
dic-00	61	1373	1.413	867	1.958	1.373	OK
ene-01	62	1373	1.408	862	1.953	1.373	OK
feb-01	63	1442	1.408	862	1.953	1.442	OK
mar-01	64	1442	1.442	897	1.987	1.442	OK
abr-01	65	1442	1.442	897	1.987	1.442	OK
may-01	66	1442	1.252	706	1.797	1.442	OK
jun-01	67	1061	1.233	687	1.778	1.061	OK
jul-01	68	1023	1.133	587	1.678	1.023	OK
ago-01	69	1204	1.248	703	1.793	1.204	OK
sep-01	70	1473	1.322	776	1.867	1.473	OK

oct-01	71	1439		1.512	967	2.057	1.439	OK
nov-01	72	1551		1.421	876	1.966	1.551	OK
dic-01	73	1403		1.478	932	2.023	1.403	OK
ene-02	74	1404		1.449	904	1.994	1.404	OK
feb-02	75							
mar-02	76							
ago-09	165							
sep-09	166							
oct-09	167	1534	167	1.534	1.200	1.868	1.534	OK
nov-09	168	1534		1.534	1.200	1.868	1.534	OK
dic-09	169	1534		1.534	1.200	1.868	1.534	OK
ene-10	170	1534		1.534	1.200	1.868	1.534	OK
feb-10	171	1534		1.534	1.200	1.868	1.534	OK
mar-10	172	1534		1.534	1.200	1.868	1.534	OK
abr-10	173	1534		1.534	1.200	1.868	1.534	OK
may-10	174	1534		1.534	1.200	1.868	1.534	OK
jun-10	175	1534		1.534	1.200	1.868	1.534	OK
jul-10	176	1534		1.534	1.200	1.868	1.534	OK
ago-10	177	1534		1.534	1.200	1.868	1.534	OK
sep-10	178	1534		1.534	1.200	1.868	1.534	OK
oct-10	179	1534		1.534	1.200	1.868	1.534	OK
nov-10	180	1534		1.534	1.200	1.868	1.534	OK
dic-10	181	1534		1.534	1.200	1.868	1.534	OK
ene-11	182	1534		1.358	1.024	1.691	1.534	OK
feb-11	183	1181		1.331	997	1.665	1.181	OK
mar-11	184	1128		1.213	879	1.547	1.128	OK
abr-11	185	1245		1.201	867	1.535	1.245	OK
may-11	186	1274		1.272	938	1.606	1.274	OK
jun-11	187	1299		1.274	940	1.608	1.299	OK
jul-11	188			1.275	941	1.608	941	LOW VALUE
ago-11	189	1250		1.250	916	1.584	1.250	OK
sep-11	190	1250		1.250	916	1.584	1.250	OK
oct-11	191	1250		1.240	906	1.573	1.250	OK
nov-11	192	1229		1.236	902	1.570	1.229	OK
dic-11	193	1222		1.178	844	1.511	1.222	OK
ene-12	194	1126		1.174	840	1.507	1.126	OK
feb-12	195	1125		1.126	792	1.460	1.125	OK
mar-12	196	1126		1.136	802	1.469	1.126	OK
abr-12	197	1146		1.178	844	1.512	1.146	OK
may-12	198	1230		1.196	862	1.529	1.230	OK
jun-12	199	1245		1.238	904	1.571	1.245	OK
jul-12	200	1245		1.245	911	1.579	1.245	OK
ago-12	201	1245		1.245	911	1.579	1.245	OK
sep-12	202	1245		1.245	911	1.579	1.245	OK
oct-12	203	1245		1.245	911	1.579	1.245	OK
nov-12	204	1245		1.245	911	1.579	1.245	OK

dic-12	205	1245	1.148	814	1.481	1.245	OK
ene-13	206	1050	1.148	814	1.481	1.050	OK
feb-13	207	1050	1.050	716	1.384	1.050	OK
mar-13	208	1050	1.073	739	1.407	1.050	OK
abr-13	209	1096	1.117	783	1.451	1.096	OK
may-13	210	1184	1.140	806	1.474	1.184	OK
jun-13	211	1184	1.184	850	1.518	1.184	OK
jul-13	212	1184	1.115	781	1.449	1.184	OK
ago-13	213	1046	1.078	744	1.411	1.046	OK
sep-13	214	971	1.057	723	1.390	971	OK
oct-13	215	1067	1.071	737	1.404	1.067	OK
nov-13	216	1170	1.061	727	1.394	1.170	OK
dic-13	217	1054	1.112	778	1.446	1.054	OK
ene-14	218	1054	1.054	720	1.388	1.054	OK
feb-14	219	1054	1.054	720	1.388	1.054	OK
mar-14	220	1054	1.054	720	1.388	1.054	OK
abr-14	221	1054	1.090	756	1.423	1.054	OK
may-14	222	1125	1.090	756	1.423	1.125	OK
jun-14	223	1125	1.125	791	1.459	1.125	OK
jul-14	224	1125	1.124	790	1.457	1.125	OK
ago-14	225	1122	856	522	1.190	1.122	OK
sep-14	226	587	1.085	751	1.419	751	LOW VALUE
oct-14	227	1048	804	470	1.138	1.048	OK
nov-14	228	1021	1.035	701	1.368	1.021	OK
dic-14	229	1021	1.021	687	1.355	1.021	OK
ene-15	230	1021	1.021	687	1.355	1.021	OK
feb-15	231	1021	1.021	687	1.355	1.021	OK
mar-15	232	1021	985	651	1.319	1.021	OK
abr-15	233	949	1.058	724	1.391	949	OK
may-15	234	1094	1.022	688	1.355	1.094	OK
jun-15	235	1094	1.094	760	1.428	1.094	OK
jul-15	236	1094	1.094	760	1.428	1.094	OK
ago-15	237	1094	1.070	736	1.404	1.094	OK
sep-15	238	1046	849	515	1.182	1.046	OK
oct-15	239	603	950	616	1.284	616	LOW VALUE
nov-15	240	854	759	425	1.092	854	OK
dic-15	241	914	729	395	1.062	914	OK

### ENERGY (kWh) promedio diario por mes

Date data (t)	Time base (t)	Original data (At)	Standard Deviation (D)	Local 3 point Prom data (x')	MIN VALUE (x'-2D)	MAX VALUE (x'+2D)	Clean data (At)	OK Original data (???)
dic-95	1	6.380	2.543	6.380	1.294	11.466	7.524	OK
ene-96	2	6.583		6.777	1.691	11.863	7.727	OK
feb-96	3	7.369		7.479	2.393	12.565	8.513	OK



mar-96	4	8.484	7.772	2.686	12.858	9.628	OK
abr-96	5	7.463	7.831	2.745	12.917	8.607	OK
may-96	6	7.546	7.323	2.237	12.409	8.690	OK
jun-96	7	6.960	6.950	1.864	12.036	8.104	OK
jul-96	8	6.345	6.634	1.548	11.720	7.489	OK
ago-96	9	6.596	6.131	1.045	11.217	7.740	OK
sep-96	10	5.452	7.173	2.087	12.259	6.596	OK
oct-96	11	9.471	8.002	2.916	13.088	10.615	OK
nov-96	12	9.084	8.428	3.342	13.514	10.228	OK
dic-96	13	6.729	7.788	2.702	12.874	7.873	OK
ene-97	14	7.550	7.329	2.243	12.415	8.694	OK
feb-97	15	7.707	7.299	2.213	12.385	8.851	OK
mar-97	16	6.641	7.796	2.710	12.882	7.785	OK
abr-97	17	9.041	8.756	3.670	13.842	10.185	OK
may-97	18	10.585	10.308	5.222	15.394	11.729	OK
jun-97	19	11.299	10.746	5.660	15.832	12.443	OK
jul-97	20	10.353	9.768	4.682	14.854	11.497	OK
ago-97	21	7.652	9.304	4.218	14.390	8.796	OK
sep-97	22	9.908	6.620	1.534	11.706	11.052	OK
oct-97	23	2.299	8.407	3.321	13.493	4.465	LOW VALUE
nov-97	24	13.014	8.022	2.936	13.108	14.158	OK
dic-97	25	8.753	11.608	6.522	16.694	9.897	OK
ene-98	26	13.057	12.084	6.998	17.170	13.057	OK
feb-98	27	14.443	13.395	8.309	18.481	14.443	OK
mar-98	28	12.686	12.851	7.765	17.937	12.686	OK
abr-98	29	11.425	11.962	6.876	17.048	11.425	OK
may-98	30	11.774	12.401	7.315	17.487	11.774	OK
jun-98	31	14.004	12.914	7.828	18.000	14.004	OK
jul-98	32	12.963	13.484	8.398	18.569	12.963	OK
ago-98	33		11.094	6.008	16.179	6.008	LOW VALUE
sep-98	34	9.224	10.644	5.558	15.730	9.224	OK
oct-98	35	12.064	11.605	6.519	16.691	12.064	OK
nov-98	36	13.528	11.581	6.495	16.667	13.528	OK
dic-98	37	9.151	10.843	5.757	15.929	9.151	OK
ene-99	38	9.849	10.126	5.040	15.212	9.849	OK
feb-99	39	11.379	10.689	5.603	15.775	11.379	OK
mar-99	40	10.840	11.635	6.549	16.721	10.840	OK
abr-99	41	12.687	12.252	7.166	17.338	12.687	OK
may-99	42	13.229	13.376	8.290	18.462	13.229	OK
jun-99	43	14.211	13.404	8.318	18.490	14.211	OK
jul-99	44	12.772	12.003	6.917	17.089	12.772	OK
ago-99	45	9.025	10.899	5.813	15.984	9.025	OK
sep-99	46		10.794	5.708	15.880	5.708	LOW VALUE
oct-99	47	12.563	13.210	8.124	18.295	12.563	OK
nov-99	48	13.856	11.484	6.398	16.570	13.856	OK
dic-99	49	8.033	10.567	5.481	15.653	8.033	OK

ene-00	50	9.811		9.973	4.887	15.059	9.811	OK
feb-00	51	12.074		11.072	5.986	16.158	12.074	OK
mar-00	52	11.331		11.866	6.780	16.952	11.331	OK
abr-00	53	12.193		13.016	7.930	18.102	12.193	OK
may-00	54	15.523		14.193	9.107	19.279	15.523	OK
jun-00	55	14.863		14.640	9.554	19.726	14.863	OK
jul-00	56	13.535		12.958	7.872	18.044	13.535	OK
ago-00	57	10.477		11.742	6.656	16.828	10.477	OK
sep-00	58	11.213		11.987	6.901	17.073	11.213	OK
oct-00	59	14.271		13.198	8.112	18.284	14.271	OK
nov-00	60	14.110		12.803	7.717	17.889	14.110	OK
dic-00	61	10.028		11.717	6.631	16.803	10.028	OK
ene-01	62	11.014		10.521	5.435	15.607	11.014	OK
feb-01	63			8.592	3.506	13.677	3.506	LOW VALUE
mar-01	64	6.169		5.025	(61)	10.110	6.169	OK
abr-01	65	3.880		5.027	(59)	10.113	3.880	OK
may-01	66			4.687	(399)	9.773	5.032	OK
jun-01	67	5.148		5.080	(6)	10.166	5.148	OK
jul-01	68	5.059		6.656	1.570	11.742	5.059	OK
ago-01	69	9.760		9.316	4.230	14.402	9.760	OK
sep-01	70	13.129		12.316	7.230	17.402	13.129	OK
oct-01	71	14.060		13.627	8.541	18.713	14.060	OK
nov-01	72	13.693		12.546	7.460	17.632	13.693	OK
dic-01	73	9.884		11.098	6.012	16.184	9.884	OK
ene-02	74	9.716		9.800	4.714	14.886	9.716	OK
feb-02	75							
mar-02	76							
ago-09	165							
sep-09	166							
oct-09	167	13.523	1.684	13.523	10.155	16.891	13.523	OK
nov-09	168	15.467		14.291	10.923	17.660	15.467	OK
dic-09	169	13884		13.758	10.390	17.126	13.884	OK
ene-10	170	11.923		12.355	8.986	15.723	11.923	OK
feb-10	171	11.257		11.580	8.212	14.949	11.257	OK
mar-10	172	11.561		12.353	8.984	15.721	11.561	OK
abr-10	173	14.240		12.901	9.533	16.270	14.240	OK
may-10	174	12.903		13.830	10.462	17.198	12.903	OK
jun-10	175	14.347		13.402	10.033	16.770	14.347	OK
jul-10	176	12.955		13.385	10.016	16.753	12.955	OK
ago-10	177	12.852		11.571	8.203	14.940	12.852	OK
sep-10	178	8.907		10.711	7.343	14.079	8.907	OK
oct-10	179	10.374		10.640	7.272	14.009	10.374	OK
nov-10	180	12.640		11.181	7.813	14.549	12.640	OK
dic-10	181	10.529		10.923	7.555	14.291	10.529	OK
ene-11	182	9.600		10.195	6.827	13.564	9.600	OK
feb-11	183	10.457		9.937	6.569	13.306	10.457	OK

mar-11	184	9.755	10.488	7.120	13.857	9.755	OK
abr-11	185	11.253	10.788	7.419	14.156	11.253	OK
may-11	186	11.355	11.376	8.008	14.744	11.355	OK
jun-11	187	11.520	11.438	8.069	14.806	11.520	OK
jul-11	188		10.199	6.830	13.567	6.830	LOW VALUE
ago-11	189	8.877	9.025	5.657	12.393	8.877	OK
sep-11	190	9.173	6.017	2.648	9.385	9.173	OK
oct-11	191	0	6.933	3.565	10.302	3.565	LOW VALUE
nov-11	192	11.627	7.609	4.241	10.977	10.977	UP VALUE
dic-11	193	11.200	10.448	7.079	13.816	11.200	OK
ene-12	194	8.516	9.639	6.270	13.007	8.516	OK
feb-12	195	9.200	8.830	5.462	12.198	9.200	OK
mar-12	196	8.774	9.689	6.321	13.057	8.774	OK
abr-12	197	11.093	9.994	6.626	13.363	11.093	OK
may-12	198	10.116	10.839	7.470	14.207	10.116	OK
jun-12	199	11.307	11.631	8.263	15.000	11.307	OK
jul-12	200	13.471	12.010	8.642	15.378	13.471	OK
ago-12	201	11.252	11.228	7.859	14.596	11.252	OK
sep-12	202	8.960	9.559	6.191	12.927	8.960	OK
oct-12	203	8.465	9.506	6.138	12.874	8.465	OK
nov-12	204	11.093	10.149	6.781	13.518	11.093	OK
dic-12	205	10.890	9.702	6.334	13.070	10.890	OK
ene-13	206	7.123	9.261	5.893	12.630	7.123	OK
feb-13	207	9.771	8.367	4.998	11.735	9.771	OK
mar-13	208	8.206	8.979	5.611	12.347	8.206	OK
abr-13	209	8.960	9.042	5.674	12.411	8.960	OK
may-13	210	9.961	10.023	6.654	13.391	9.961	OK
jun-13	211	11.147	10.098	6.730	13.467	11.147	OK
jul-13	212	9.187	9.961	6.592	13.329	9.187	OK
ago-13	213	9.548	8.894	5.526	12.262	9.548	OK
sep-13	214	7.947	8.206	4.838	11.574	7.947	OK
oct-13	215	7.123	8.828	5.459	12.196	7.123	OK
nov-13	216	11.413	9.447	6.079	12.816	11.413	OK
dic-13	217	9.806	9.877	6.509	13.246	9.806	OK
ene-14	218	8.413	9.159	5.790	12.527	8.413	OK
feb-14	219	9.257	8.591	5.223	11.959	9.257	OK
mar-14	220	8.103	8.631	5.263	11.999	8.103	OK
abr-14	221	8.533	9.197	5.828	12.565	8.533	OK
may-14	222	8.310	9.545	6.177	12.913	8.310	OK
jun-14	223	11.840	10.502	7.133	13.870	11.840	OK
jul-14	224	9.497	8.742	5.373	12.110	9.497	OK
ago-14	225	10.168	8.501	5.132	11.869	10.168	OK
sep-14	226	6.560	8.702	5.334	12.071	6.560	OK
oct-14	227	8.774	9.286	5.917	12.654	8.774	OK
nov-14	228	10.773	9.183	5.814	12.551	10.773	OK
dic-14	229	8.310	8.258	4.890	11.627	8.310	OK

ene-15	230	8.465	8.479	5.110	11.847	8.465	OK
feb-15	231	8.000	8.543	5.175	11.912	8.000	OK
mar-15	232	7.690	8.837	5.468	12.205	7.690	OK
abr-15	233	9.760	9.327	5.959	12.695	9.760	OK
may-15	234	8.723	9.352	5.983	12.720	8.723	OK
jun-15	235	9.173	9.046	5.677	12.414	9.173	OK
jul-15	236	9.652	7.850	4.482	11.218	9.652	OK
ago-15	237	9.858	7.627	4.259	10.995	9.858	OK
sep-15	238	7.627	6.846	3.478	10.214	7.627	OK
oct-15	239	6.065	7.302	3.933	10.670	6.065	OK
nov-15	240	8.213	7.564	4.195	10.932	8.213	OK
dic-15	241	8.413	8.313	4.945	11.681	8.413	OK

- Alimentador A7

**DEMAND (kVA)**

Date data (t)	Time base (t)	Original data (At)	Standard Deviation (D)	Local 2 point Prom data (x')	MIN VALUE (x'-2D)	Clean data (At)	MAX VALUE (x'+2D)	OK Original data (????)
dic-95	1	1.226	270	1.226	687	1.226	1.765	OK
ene-96	2	1.226		1.226	687	1.226	1.765	OK
feb-96	3	1.226		1.117	578	1.226	1.656	OK
mar-96	4	1.008		1.188	648	1.008	1.727	OK
abr-96	5	1.149		1.079	539	1.149	1.618	OK
may-96	6	1.149		1.149	610	1.149	1.688	OK
jun-96	7	1.149		1.149	610	1.149	1.688	OK
jul-96	8	1.149		1.149	610	1.149	1.688	OK
ago-96	9	1.149		1.149	610	1.149	1.688	OK
sep-96	10	1.149		1.149	610	1.149	1.688	OK
oct-96	11	1.149		1.115	575	1.149	1.654	OK
nov-96	12	1.080		1.094	555	1.080	1.633	OK
dic-96	13	1.039		1.082	542	1.039	1.621	OK
ene-97	14	1.083		810	270	1.083	1.349	OK
feb-97	15	580		844	304	580	1.383	OK
mar-97	16	604		814	275	604	1.353	OK
abr-97	17	1.048		888	348	1.048	1.427	OK
may-97	18	1.171		1.149	610	1.171	1.688	OK
jun-97	19	1.250		1.211	671	1.250	1.750	OK
jul-97	20	1.250		1.250	711	1.250	1.789	OK
ago-97	21	1.250		1.183	644	1.250	1.722	OK
sep-97	22	1.116		1.255	716	1.116	1.794	OK
oct-97	23	1.260		1.186	646	1.260	1.725	OK
nov-97	24	1.255		1.266	727	1.255	1.805	OK
dic-97	25	1.272		1.224	684	1.272	1.763	OK

ene-98	26	1.192	1.267	728	1.192	1.806	OK
feb-98	27	1.262	1.227	688	1.262	1.766	OK
mar-98	28	1.262	1.262	723	1.262	1.801	OK
abr-98	29	1.262	1.299	760	1.262	1.838	OK
may-98	30	1.336	1.275	736	1.336	1.814	OK
jun-98	31	1.288	1.282	743	1.288	1.821	OK
jul-98	32	1.228	1.124	585	1.228	1.663	OK
ago-98	33	960	1.206	666	960	1.745	OK
sep-98	34	1.183	1.150	610	1.183	1.689	OK
oct-98	35	1.339	1.254	714	1.339	1.793	OK
nov-98	36	1.324	1.332	792	1.324	1.871	OK
dic-98	37	1.324	1.238	699	1.324	1.777	OK
ene-99	38	1.152	1.244	705	1.152	1.783	OK
feb-99	39	1.164	1.054	514	1.164	1.593	OK
mar-99	40	955	1.190	651	955	1.729	OK
abr-99	41	1.216	1.098	558	1.216	1.637	OK
may-99	42	1.240	1.219	679	1.240	1.758	OK
jun-99	43	1.221	1.207	667	1.221	1.746	OK
jul-99	44	1.173	1.075	535	1.173	1.614	OK
ago-99	45	928	587	47	928	1.126	OK
sep-99	46	-	1.018	479	479	1.557	LOW VALUE
oct-99	47	1.108	1.424	885	1.108	1.963	OK
nov-99	48	2.848	1.144	605	1.683	1.683	UP VALUE
dic-99	49	1.180	1.424	885	1.180	1.963	OK
ene-00	50	-	590	51	51	1.129	LOW VALUE
feb-00	51	-	-	(539)	-	539	OK
mar-00	52	-	-	(539)	-	539	OK
abr-00	53	-	-	(539)	-	539	OK
may-00	54	-	588	49	49	1.127	LOW VALUE
jun-00	55	1.176	589	50	1.128	1.128	UP VALUE
jul-00	56	1.178	1.073	533	1.178	1.612	OK
ago-00	57	969	1.169	629	969	1.708	OK
sep-00	58	1.159	1.131	592	1.159	1.670	OK
oct-00	59	1.293	1.224	684	1.293	1.763	OK
nov-00	60	1.288	775	235	1.288	1.314	OK
dic-00	61	256	1.172	633	633	1.711	LOW VALUE
ene-01	62	1.056	128	(411)	667	667	UP VALUE
feb-01	63	-	1.184	645	645	1.723	LOW VALUE
mar-01	64	1.312	589	50	1.128	1.128	UP VALUE
abr-01	65	1.178	1.286	747	1.178	1.825	OK
may-01	66	1.260	1.219	680	1.260	1.758	OK
jun-01	67	1.260	1.242	703	1.260	1.781	OK
jul-01	68	1.224	1.127	587	1.224	1.666	OK
ago-01	69	993	1.189	650	993	1.728	OK
sep-01	70	1.154	1.069	529	1.154	1.608	OK
oct-01	71	1.144	1.149	610	1.144	1.688	OK

nov-01	72	1.144		1.144	605	1.144	1.683	OK
dic-01	73	1.144		1.171	631	1.144	1.710	OK
ene-02	74	1.197		1.157	618	1.197	1.696	OK
feb-02	75							
mar-02	76							
ago-09	165							
sep-09	166							
oct-09	167	1.066	108	1.006	790	1.066	1.222	OK
nov-09	168	943		1.005	788	943	1.221	OK
dic-09	169	943		1.006	789	943	1.222	OK
ene-10	170	1.068		928	711	1.068	1.144	OK
feb-10	171	912		1.006	789	912	1.222	OK
mar-10	172	943		983	767	943	1.199	OK
abr-10	173	1.054		981	764	1.054	1.197	OK
may-10	174	1.018		1.056	840	1.018	1.272	OK
jun-10	175	1.058		1.019	803	1.058	1.235	OK
jul-10	176	1.020		1.044	828	1.020	1.260	OK
ago-10	177	1.030		780	564	996		UP VALUE
sep-10	178	540		964	748	748	1.180	LOW VALUE
oct-10	179	898		719	503	898	935	OK
nov-10	180	898		898	682	898	1.114	OK
dic-10	181	898		876	660	898	1.092	OK
ene-11	182	854		872	655	854	1.088	OK
feb-11	183	845		859	643	845	1.075	OK
mar-11	184	864		860	643	864	1.076	OK
abr-11	185	874		883	667	874	1.099	OK
may-11	186	902		891	674	902	1.107	OK
jun-11	187	907		902	686	907	1.118	OK
jul-11	188			755	538	538	971	LOW VALUE
ago-11	189	602		602	386	602	818	OK
sep-11	190	602		742	525	602	958	OK
oct-11	191	881		772	556	881	988	OK
nov-11	192	942		903	686	942	1.119	OK
dic-11	193	924		916	700	924	1.132	OK
ene-12	194	890		897	680	890	1.113	OK
feb-12	195	869		871	655	869	1.087	OK
mar-12	196	852		892	675	852	1.108	OK
abr-12	197	914		916	699	914	1.132	OK
may-12	198	983		983	766	979	1.199	OK
jun-12	199	1.051		976	759	1.051	1.192	OK
jul-12	200	972		1.012	795	972	1.228	OK
ago-12	201	972		840	624	972	1.056	OK
sep-12	202	708		964	747	747	1.180	LOW VALUE
oct-12	203	955		832	615	955	1.048	OK
nov-12	204	955		936	720	955	1.152	OK
dic-12	205	917		973	757	917	1.189	OK

ene-13	206	991	891	674	991	1.107	OK
feb-13	207	864	921	704	864	1.137	OK
mar-13	208	850	889	673	850	1.105	OK
abr-13	209	914	932	715	914	1.148	OK
may-13	210	1.013	908	692	1.013	1.124	OK
jun-13	211	902	954	738	902	1.170	OK
jul-13	212	895	888	672	895	1.104	OK
ago-13	213	874	853	637	874	1.069	OK
sep-13	214	811	908	691	811	1.124	OK
oct-13	215	941	864	648	941	1.080	OK
nov-13	216	917	879	662	917	1.095	OK
dic-13	217	816	864	648	816	1.080	OK
ene-14	218	811	781	565	811	997	OK
feb-14	219	746	790	573	746	1.006	OK
mar-14	220	768	793	577	768	1.009	OK
abr-14	221	840	814	597	840	1.030	OK
may-14	222	859	874	657	859	1.090	OK
jun-14	223	907	844	627	907	1.060	OK
jul-14	224	828	904	687	828	1.120	OK
ago-14	225	900	761	545	900	977	OK
sep-14	226	694	856	639	694	1.072	OK
oct-14	227	811	784	568	811	1.000	OK
nov-14	228	874	733	517	874	949	OK
dic-14	229	655	699	482	655	915	OK
ene-15	230	523	606	390	523	822	OK
feb-15	231	557	520	303	557	736	OK
mar-15	232	516	561	344	516	777	OK
abr-15	233	564	723	506	564	939	OK
may-15	234	929	725	509	929	941	OK
jun-15	235	886	908	691	886	1.124	OK
jul-15	236	886	882	666	886	1.098	OK
ago-15	237	878	882	666	878	1.098	OK
sep-15	238	878	674	458	878	890	OK
oct-15	239	470	754	537	537	970	LOW VALUE
nov-15	240	629	457	241	629	673	OK
dic-15	241	444	550	333	444	766	OK

### ENERGY (kWh) promedio diario por mes

Date data (t)	Time base (t)	Original data (At)	Standard Deviation (D)	Local 3 point Prom data (x')	MIN VALUE (x'-2D)	Clean data (At)	MAX VALUE (x'+2D)	OK Original data (???)
dic-95	1	9.771	2.625	9.771	4.521	9.771	15.021	OK
ene-96	2	9.691		10.275	5.025	9.691	15.525	OK
feb-96	3	11.364		10.364	5.114	11.364	15.614	OK
mar-96	4	10.037		10.308	5.058	10.037	15.558	OK

abr-96	5	9.523	10.173	4.923	9.523	15.423	OK
may-96	6	10.960	10.456	5.206	10.960	15.706	OK
jun-96	7	10.886	10.379	5.129	10.886	15.629	OK
jul-96	8	9.290	8.467	3.217	9.290	13.717	OK
ago-96	9	5.226	8.563	3.313	5.226	13.813	OK
sep-96	10	11.172	9.012	3.762	11.172	14.262	OK
oct-96	11	10.639	10.728	5.478	10.639	15.978	OK
nov-96	12	10.374	9.747	4.497	10.374	14.997	OK
dic-96	13	8.229	8.399	3.149	8.229	13.649	OK
ene-97	14	6.593	6.449	1.199	6.593	11.699	OK
feb-97	15	4.526	5.335	85	4.526	10.585	OK
mar-97	16	4.885	5.743	493	4.885	10.993	OK
abr-97	17	7.819	7.681	2.431	7.819	12.931	OK
may-97	18	10.339	10.461	5.211	10.339	15.711	OK
jun-97	19	13.224	11.650	6.400	13.224	16.900	OK
jul-97	20	11.388	11.567	6.317	11.388	16.817	OK
ago-97	21	10.089	10.028	4.778	10.089	15.278	OK
sep-97	22	8.607	10.455	5.205	8.607	15.705	OK
oct-97	23	12.669	11.149	5.899	12.669	16.399	OK
nov-97	24	12.171	11.305	6.055	12.171	16.555	OK
dic-97	25	9.074	10.411	5.161	9.074	15.661	OK
ene-98	26	9.987	10.639	5.389	9.987	15.889	OK
feb-98	27	12.857	11.357	6.107	12.857	16.607	OK
mar-98	28	11.226	11.567	6.317	11.226	16.817	OK
abr-98	29	10.618	11.678	6.428	10.618	16.928	OK
may-98	30	13.189	12.176	6.926	13.189	17.426	OK
jun-98	31	12.720	12.390	7.140	12.720	17.640	OK
jul-98	32	11.261	11.991	6.741	11.261	17.240	OK
ago-98	33		11.351	6.101	6.101	16.600	LOW VALUE
sep-98	34	11.440	11.817	6.567	11.440	17.067	OK
oct-98	35	12.194	12.237	6.987	12.194	17.487	OK
nov-98	36	13.076	11.247	5.997	13.076	16.497	OK
dic-98	37	8.471	10.860	5.610	8.471	16.110	OK
ene-99	38	11.032	10.205	4.955	11.032	15.455	OK
feb-99	39	11.112	10.888	5.638	11.112	16.138	OK
mar-99	40	10.520	11.182	5.932	10.520	16.432	OK
abr-99	41	11.914	11.723	6.473	11.914	16.973	OK
may-99	42	12.734	12.403	7.153	12.734	17.653	OK
jun-99	43	12.560	11.843	6.593	12.560	17.093	OK
jul-99	44	10.234	9.792	4.542	10.234	15.042	OK
ago-99	45	6.581	5.605	355	6.581	10.855	OK
sep-99	46	-	5.765	515	515	11.015	LOW VALUE
oct-99	47	10.714	7.571	2.321	10.714	12.821	OK
nov-99	48	12.000	9.729	4.479	12.000	14.979	OK
dic-99	49	6.472	6.157	907	6.472	11.407	OK
ene-00	50	-	2.157	(3.093)	814	7.407	OK



feb-00	51	-	-	(5.250)	814	5.250	OK	
mar-00	52	-	-	(5.250)	814	5.250	OK	
abr-00	53	-	-	(5.250)	814	5.250	OK	
may-00	54	-	2.750	(2.500)	814	8.000	OK	
jun-00	55	8.250	6.301	1.051	8.250	11.551	OK	
jul-00	56	10.652	8.873	3.623	10.652	14.123	OK	
ago-00	57	7.717	9.348	4.098	7.717	14.598	OK	
sep-00	58	9.675	9.772	4.522	9.675	15.022	OK	
oct-00	59	11.923	11.751	6.501	11.923	17.001	OK	
nov-00	60	13.655	11.574	6.324	13.655	16.824	OK	
dic-00	61	9.145	10.797	5.547	9.145	16.047	OK	
ene-01	62	9.590	6.245	995	9.590	11.495	OK	
feb-01	63	-	6.922	1.672	1.672	12.172	LOW VALUE	
mar-01	64	11.177	6.792	1.542	11.177	12.042	OK	
abr-01	65	9.200	10.689	5.439	9.200	15.939	OK	
may-01	66	11.690	11.221	5.971	11.690	16.471	OK	
jun-01	67	12.774	11.561	6.311	12.774	16.811	OK	
jul-01	68	10.219	10.386	5.136	10.219	15.636	OK	
ago-01	69	8.164	9.471	4.221	8.164	14.721	OK	
sep-01	70	10.029	9.361	4.111	10.029	14.611	OK	
oct-01	71	9.890	9.865	4.615	9.890	15.115	OK	
nov-01	72	9.675	8.586	3.336	9.675	13.836	OK	
dic-01	73	6.194	8.670	3.420	6.194	13.920	OK	
ene-02	74	10.142	8.168	2.918	10.142	13.418	OK	
feb-02	75							
mar-02	76							
ago-09	165							
sep-09	166							
oct-09	167	7.432	1.522	7.432	4.387	7.432	10.477	OK
nov-09	168	8.880		8.224	5.180	8.880	11.269	OK
dic-09	169	8.361		8.534	5.489	8.361	11.579	OK
ene-10	170	8.361		8.260	5.215	8.361	11.304	OK
feb-10	171	8.057		8.311	5.267	8.057	11.356	OK
mar-10	172	8.516		8.751	5.706	8.516	11.796	OK
abr-10	173	9.680		9.110	6.066	9.680	12.155	OK
may-10	174	9.135		9.445	6.400	9.135	12.490	OK
jun-10	175	9.520		9.393	6.348	9.520	12.437	OK
jul-10	176	9.523		9.186	6.142	9.523	12.231	OK
ago-10	177	8.516		7.560	4.515	8.516	10.604	OK
sep-10	178	4.640		6.605	3.560	4.640	9.649	OK
oct-10	179	6.658		6.619	3.575	6.658	9.664	OK
nov-10	180	8.560		7.602	4.557	8.560	10.646	OK
dic-10	181	7.587		7.421	4.376	7.587	10.466	OK
ene-11	182	6.116		7.168	4.123	6.116	10.212	OK
feb-11	183	7.800		7.271	4.226	7.800	10.316	OK
mar-11	184	7.897		7.952	4.908	7.897	10.997	OK

abr-11	185	8.160	7.856	4.811	8.160	10.900	OK
may-11	186	7.510	8.503	5.459	7.510	11.548	OK
jun-11	187	9.840	8.675	5.630	9.840	11.720	OK
jul-11	188		7.282	4.237	4.237	10.326	LOW VALUE
ago-11	189	4.723	4.802	1.757	4.723	7.846	OK
sep-11	190	4.880	3.201	156	4.880	6.246	OK
oct-11	191	0	4.373	1.329	1.329	7.418	LOW VALUE
nov-11	192	8.240	5.431	2.386	8.240	8.475	OK
dic-11	193	8.052	7.418	4.373	8.052	10.462	OK
ene-12	194	5.961	7.300	4.255	5.961	10.344	OK
feb-12	195	7.886	6.895	3.851	7.886	9.940	OK
mar-12	196	6.839	7.735	4.690	6.839	10.780	OK
abr-12	197	8.480	7.584	4.539	8.480	10.628	OK
may-12	198	7.432	8.637	5.593	7.432	11.682	OK
jun-12	199	10.000	9.140	6.095	10.000	12.184	OK
jul-12	200	9.987	9.372	6.327	9.987	12.417	OK
ago-12	201	8.129	8.172	5.127	8.129	11.217	OK
sep-12	202	6.400	7.372	4.327	6.400	10.417	OK
oct-12	203	7.587	7.756	4.711	7.587	10.800	OK
nov-12	204	9.280	8.848	5.803	9.280	11.893	OK
dic-12	205	9.677	8.151	5.107	9.677	11.196	OK
ene-13	206	5.497	7.944	4.899	5.497	10.988	OK
feb-13	207	8.657	7.144	4.099	8.657	10.188	OK
mar-13	208	7.277	7.765	4.720	7.277	10.809	OK
abr-13	209	7.360	7.589	4.544	7.360	10.633	OK
may-13	210	8.129	8.470	5.425	8.129	11.514	OK
jun-13	211	9.920	8.752	5.707	9.920	11.796	OK
jul-13	212	8.206	8.752	5.707	8.206	11.796	OK
ago-13	213	8.129	6.938	3.894	8.129	9.983	OK
sep-13	214	4.480	6.216	3.171	4.480	9.261	OK
oct-13	215	6.039	6.786	3.742	6.039	9.831	OK
nov-13	216	9.840	8.158	5.113	9.840	11.202	OK
dic-13	217	8.594	8.080	5.035	8.594	11.125	OK
ene-14	218	5.806	7.600	4.555	5.806	10.645	OK
feb-14	219	8.400	6.851	3.807	8.400	9.896	OK
mar-14	220	6.348	7.049	4.005	6.348	10.094	OK
abr-14	221	6.400	6.340	3.295	6.400	9.384	OK
may-14	222	6.271	7.264	4.219	6.271	10.308	OK
jun-14	223	9.120	7.625	4.580	9.120	10.670	OK
jul-14	224	7.484	8.451	5.406	7.484	11.495	OK
ago-14	225	8.748	6.744	3.699	8.748	9.789	OK
sep-14	226	4.000	6.004	2.960	4.000	9.049	OK
oct-14	227	5.265	5.675	2.630	5.265	8.720	OK
nov-14	228	7.760	6.277	3.232	7.760	9.322	OK
dic-14	229	5.806	6.225	3.181	5.806	9.270	OK
ene-15	230	5.110	5.410	2.365	5.110	8.455	OK

feb-15	231	5.314	5.255	2.211	5.314	8.300	OK
mar-15	232	5.342	5.632	2.587	5.342	8.677	OK
abr-15	233	6.240	5.951	2.906	6.240	8.996	OK
may-15	234	6.271	6.357	3.312	6.271	9.402	OK
jun-15	235	6.560	6.135	3.090	6.560	9.180	OK
jul-15	236	5.574	6.677	3.632	5.574	9.722	OK
ago-15	237	7.897	5.610	2.566	7.897	8.655	OK
sep-15	238	3.360	5.275	2.230	3.360	8.320	OK
oct-15	239	4.568	4.296	1.251	4.568	7.341	OK
nov-15	240	4.960	4.699	1.654	4.960	7.743	OK
dic-15	241	4.568	4.764	1.719	4.568	7.809	OK

- Alimentador A68

DEMAND (kVA)									
Date data (t)	Time base (t)	Original data (At)	Standard Deviation (D)	Local Prom data (x')	MIN VALUE (x'-2D)	Clean data (At)	MAX VALUE (x'+2D)	OK Original data (???)	
dic-95	1	4.882	913	4.882	3.055	4.882	6.708	OK	
ene-96	2	4.882		4.882	3.055	4.882	6.708	OK	
feb-96	3	4.882		4.426	2.599	4.882	6.252	OK	
mar-96	4	3.970		4.918	3.091	3.970	6.744	OK	
abr-96	5	4.954		4.891	3.065	4.954	6.718	OK	
may-96	6	5.813		5.383	3.557	5.813	7.210	OK	
jun-96	7	5.813		5.813	3.986	5.813	7.639	OK	
jul-96	8	5.813		5.813	3.986	5.813	7.639	OK	
ago-96	9	5.813		5.813	3.986	5.813	7.639	OK	
sep-96	10	5.813		5.813	3.986	5.813	7.639	OK	
oct-96	11	5.813		5.813	3.986	5.813	7.639	OK	
nov-96	12	5.813		5.261	3.434	5.813	7.087	OK	
dic-96	13	4.709		5.585	3.758	4.709	7.411	OK	
ene-97	14	5.357		4.239	2.413	5.357	6.066	OK	
feb-97	15	3.770		4.560	2.734	3.770	6.387	OK	
mar-97	16	3.763		5.072	3.245	3.763	6.899	OK	
abr-97	17	6.374		5.296	3.469	6.374	7.123	OK	
may-97	18	6.829		6.653	4.826	6.829	8.479	OK	
jun-97	19	6.931		6.880	5.053	6.931	8.707	OK	
jul-97	20	6.931		6.931	5.105	6.931	8.758	OK	
ago-97	21	6.931		6.650	4.823	6.931	8.476	OK	
sep-97	22	6.368		7.030	5.204	6.368	8.857	OK	
oct-97	23	7.130		6.746	4.919	7.130	8.572	OK	
nov-97	24	7.123		7.126	5.300	7.123	8.953	OK	
dic-97	25	7.123		6.749	4.922	7.123	8.575	OK	
ene-98	26	6.374		7.168	5.341	6.374	8.995	OK	

feb-98	27	7.213	7.923	6.097	7.213	9.750	OK
mar-98	28	9.472	7.270	5.444	9.097	9.097	UP VALUE
abr-98	29	7.328	8.349	6.522	7.328	10.175	OK
may-98	30	7.226	7.184	5.357	7.226	9.011	OK
jun-98	31	7.040	7.114	5.287	7.040	8.940	OK
jul-98	32	7.002	6.212	4.386	7.002	8.039	OK
ago-98	33	5.385	6.525	4.698	5.385	8.351	OK
sep-98	34	6.048	6.228	4.402	6.048	8.055	OK
oct-98	35	7.072	6.602	4.775	7.072	8.428	OK
nov-98	36	7.155	7.373	5.546	7.155	9.199	OK
dic-98	37	7.674	6.998	5.172	7.674	8.825	OK
ene-99	38	6.841	7.142	5.316	6.841	8.969	OK
feb-99	39	6.611	6.374	4.547	6.611	8.201	OK
mar-99	40	5.907	6.762	4.935	5.907	8.588	OK
abr-99	41	6.912	6.522	4.695	6.912	8.348	OK
may-99	42	7.136	7.398	5.571	7.136	9.225	OK
jun-99	43	7.884	7.222	5.395	7.884	9.049	OK
jul-99	44	7.308	6.822	4.995	7.308	8.649	OK
ago-99	45	5.760	6.854	5.027	5.760	8.681	OK
sep-99	46	6.400	6.362	4.535	6.400	8.188	OK
oct-99	47	6.963	7.005	5.178	6.963	8.831	OK
nov-99	48	7.609	6.982	5.155	7.609	8.809	OK
dic-99	49	7.001	7.539	5.712	7.001	9.365	OK
ene-00	50	7.469	7.043	5.216	7.469	8.869	OK
feb-00	51	7.085	7.392	5.565	7.085	9.219	OK
mar-00	52	7.315	7.571	5.745	7.315	9.398	OK
abr-00	53	8.058	8.211	6.385	8.058	10.038	OK
may-00	54	9.107	8.595	6.769	9.107	10.422	OK
jun-00	55	9.133	8.269	6.442	9.133	10.095	OK
jul-00	56	7.430	7.450	5.623	7.430	9.276	OK
ago-00	57	5.766	6.627	4.801	5.766	8.454	OK
sep-00	58	5.824	6.442	4.615	5.824	8.268	OK
oct-00	59	7.117	6.371	4.545	7.117	8.198	OK
nov-00	60	6.918	4.797	2.970	6.623	6.623	UP VALUE
dic-00	61	2.477	6.493	4.666	4.666	8.319	LOW VALUE
ene-01	62	6.067	4.723	2.897	6.067	6.550	OK
feb-01	63	6.970	6.518	4.692	6.970	8.345	OK
mar-01	64	6.970	6.835	5.009	6.970	8.662	OK
abr-01	65	6.701	7.357	5.530	6.701	9.183	OK
may-01	66	7.744	7.008	5.181	7.744	8.834	OK
jun-01	67	7.315	7.286	5.460	7.315	9.113	OK
jul-01	68	6.829	6.822	4.996	6.829	8.649	OK
ago-01	69	6.330	6.298	4.471	6.330	8.124	OK
sep-01	70	5.766	6.477	4.650	5.766	8.303	OK
oct-01	71	6.624	6.614	4.788	6.624	8.441	OK
nov-01	72	7.462	7.043	5.217	7.462	8.870	OK

dic-01	73	7.462		6.931	5.105	7.462	8.758	OK
ene-02	74	6.400		6.987	5.161	6.400	8.814	OK
feb-02	75							
mar-02	76							
ago-09	165							
sep-09	166							
oct-09	167	6061	592	6.061	4.877	6.061	7.245	OK
nov-09	168	6196		6.388	5.204	6.196	7.571	OK
dic-09	169	6714		6.321	5.137	6.714	7.504	OK
ene-10	170	6445		6.160	4.976	6.445	7.344	OK
feb-10	171	5606		6.324	5.140	5.606	7.507	OK
mar-10	172	6202		5.990	4.806	6.202	7.174	OK
abr-10	173	6374		6.308	5.124	6.374	7.491	OK
may-10	174	6413		6.317	5.133	6.413	7.500	OK
jun-10	175	6259		6.308	5.124	6.259	7.491	OK
jul-10	176	6202		6.231	5.047	6.202	7.414	OK
ago-10	177	6202		4.794	3.610	5.978	5.978	UP VALUE
sep-10	178	3386		5.552	4.368	4.368	6.736	LOW VALUE
oct-10	179	4902		4.522	3.338	4.902	5.706	OK
nov-10	180	5658		5.370	4.186	5.658	6.553	OK
dic-10	181	5837		5.322	4.138	5.837	6.506	OK
ene-11	182	4986		5.418	4.234	4.986	6.601	OK
feb-11	183	4998		5.056	3.872	4.998	6.240	OK
mar-11	184	5126		5.376	4.192	5.126	6.560	OK
abr-11	185	5754		5.491	4.307	5.754	6.675	OK
may-11	186	5856		6.032	4.848	5.856	7.216	OK
jun-11	187	6310		5.856	4.672	6.310	7.040	OK
jul-11	188			4.305	3.121	3.121	5.489	LOW VALUE
ago-11	189	2300		2.300	1.116	2.300	3.484	OK
sep-11	190	2300		3.736	2.552	2.552	4.919	LOW VALUE
oct-11	191	5171		3.791	2.607	4.974	4.974	UP VALUE
nov-11	192	5281		5.584	4.400	5.281	6.768	OK
dic-11	193	5997		5.246	4.062	5.997	6.429	OK
ene-12	194	5210		5.392	4.208	5.210	6.576	OK
feb-12	195	4787		5.028	3.844	4.787	6.211	OK
mar-12	196	4845		4.887	3.703	4.845	6.070	OK
abr-12	197	4986		5.325	4.141	4.986	6.509	OK
may-12	198	5805		5.508	4.324	5.805	6.691	OK
jun-12	199	6029		5.776	4.592	6.029	6.960	OK
jul-12	200	5747		5.888	4.704	5.747	7.072	OK
ago-12	201	5747		4.759	3.575	5.747	5.942	OK
sep-12	202	3770		5.635	4.451	4.451	6.819	LOW VALUE
oct-12	203	5523		4.871	3.687	5.523	6.054	OK
nov-12	204	5971		5.674	4.490	5.971	6.857	OK
dic-12	205	5824		5.635	4.451	5.824	6.819	OK
ene-13	206	5299		5.335	4.151	5.299	6.518	OK

feb-13	207	4845	5.296	4.112	4.845	6.480	OK
mar-13	208	5293	5.232	4.048	5.293	6.416	OK
abr-13	209	5619	5.277	4.093	5.619	6.461	OK
may-13	210	5261	5.600	4.416	5.261	6.784	OK
jun-13	211	5581	5.274	4.090	5.581	6.457	OK
jul-13	212	5286	5.344	4.160	5.286	6.528	OK
ago-13	213	5107	4.803	3.619	5.107	5.987	OK
sep-13	214	4320	5.277	4.093	4.320	6.460	OK
oct-13	215	5446	4.983	3.799	5.446	6.166	OK
nov-13	216	5645	5.248	4.064	5.645	6.432	OK
dic-13	217	5050	5.300	4.116	5.050	6.483	OK
ene-14	218	4954	4.804	3.620	4.954	5.987	OK
feb-14	219	4557	4.887	3.703	4.557	6.070	OK
mar-14	220	4489	4.487	3.303	4.819	5.670	OK
abr-14	221	4416	5.079	3.895	4.416	6.262	OK
may-14	222	5338	5.079	3.895	5.338	6.262	OK
jun-14	223	5741	5.460	4.276	5.741	6.643	OK
jul-14	224	5581	5.556	4.372	5.581	6.739	OK
ago-14	225	5370	4.791	3.607	5.370	5.974	OK
sep-14	226	4000	5.328	4.144	4.144	6.512	LOW VALUE
oct-14	227	5286	4.653	3.469	5.286	5.837	OK
nov-14	228	5306	5.408	4.224	5.306	6.592	OK
dic-14	229	5530	5.408	4.224	5.530	6.592	OK
ene-15	230	5510	5.130	3.946	5.510	6.314	OK
feb-15	231	4730	5.347	4.163	4.730	6.531	OK
mar-15	232	5184	4.762	3.578	5.184	5.946	OK
abr-15	233	4794	5.459	4.275	4.794	6.643	OK
may-15	234	5734	5.264	4.080	5.734	6.448	OK
jun-15	235	5734	5.734	4.550	5.734	6.918	OK
jul-15	236	5734	5.616	4.432	5.734	6.800	OK
ago-15	237	5498	5.616	4.432	5.498	6.800	OK
sep-15	238	5498	5.012	3.828	5.498	6.195	OK
oct-15	239	4525	4.759	3.575	4.525	5.942	OK
nov-15	240	4019	4.394	3.210	4.019	5.577	OK
dic-15	241	4262	4.019	2.835	4.262	5.203	OK

### ENERGY (kWh) PROMEDIO DIARIO POR MES

Date data (t)	Time base (t)	Original data (At)	Standard Deviation (D)	Local 3 point Prom data (x')	MIN VALUE (x'-2D)	Clean data (At)	MAX VALUE (x'+2D)	OK Original data (???)
dic-95	1	31.075	10.540	31.075	9.996	31.075	52.154	OK
ene-96	2	38.032		37.801	16.721	38.032	58.880	OK
feb-96	3	44.295		40.438	19.358	44.295	61.517	OK
mar-96	4	38.986		40.664	19.584	38.986	61.743	OK

abr-96	5	38.710	40.802	19.723	38.710	61.881	OK
may-96	6	44.710	42.435	21.356	44.710	63.515	OK
jun-96	7	43.886	43.118	22.039	43.886	64.197	OK
jul-96	8	40.758	37.166	16.087	40.758	58.246	OK
ago-96	9	26.855	34.400	13.320	26.855	55.479	OK
sep-96	10	35.586	34.899	13.820	35.586	55.978	OK
oct-96	11	42.256	38.921	17.842	42.256	60.000	OK
nov-96	12		36.524	15.444	15.444	57.603	LOW VALUE
dic-96	13	30.791	36.247	15.168	30.791	57.326	OK
ene-97	14	41.703	36.233	15.154	41.703	57.313	OK
feb-97	15	36.206	36.506	15.426	36.206	57.585	OK
mar-97	16	31.608	38.777	17.697	31.608	59.856	OK
abr-97	17	48.516	47.220	26.141	48.516	68.299	OK
may-97	18	61.536	60.886	39.807	61.536	81.966	OK
jun-97	19	72.607	64.227	43.148	72.607	85.307	OK
jul-97	20	58.539	58.038	36.959	58.539	79.117	OK
ago-97	21	42.968	49.946	28.867	42.968	71.025	OK
sep-97	22	48.331	52.455	31.375	48.331	73.534	OK
oct-97	23	66.065	59.389	38.310	66.065	80.468	OK
nov-97	24	63.771	58.931	37.851	63.771	80.010	OK
dic-97	25	46.956	54.251	33.172	46.956	75.330	OK
ene-98	26	52.026	55.525	34.445	52.026	76.604	OK
feb-98	27	67.592	60.655	39.576	67.592	81.735	OK
mar-98	28	62.348	62.643	41.563	62.348	83.722	OK
abr-98	29	57.988	63.485	42.406	57.988	84.565	OK
may-98	30	70.120	64.889	43.810	70.120	85.969	OK
jun-98	31	66.560	66.455	45.376	66.560	87.535	OK
jul-98	32	62.686	64.623	43.544	62.686	85.702	OK
ago-98	33		57.797	36.717	36.717	78.876	LOW VALUE
sep-98	34	52.907	57.712	36.632	52.907	78.791	OK
oct-98	35	62.516	60.617	39.538	62.516	81.696	OK
nov-98	36	66.428	57.858	36.779	66.428	78.937	OK
dic-98	37	44.630	55.379	34.299	44.630	76.458	OK
ene-99	38	55.078	52.256	31.177	55.078	73.336	OK
feb-99	39	57.061	55.414	34.334	57.061	76.493	OK
mar-99	40	54.102	58.159	37.080	54.102	79.238	OK
abr-99	41	63.314	61.920	40.840	63.314	82.999	OK
may-99	42	68.343	66.428	45.349	68.343	87.507	OK
jun-99	43	67.627	65.065	43.986	67.627	86.145	OK
jul-99	44	59.226	55.704	34.624	59.226	76.783	OK
ago-99	45	40.258	49.742	28.663	40.258	70.821	OK
sep-99	46		47.900	26.821	26.821	68.979	LOW VALUE
oct-99	47	55.542	60.411	39.332	55.542	81.490	OK
nov-99	48	65.280	53.474	32.395	65.280	74.554	OK
dic-99	49	39.601	53.114	32.035	39.601	74.193	OK
ene-00	50	54.461	54.526	33.447	54.461	75.606	OK

feb-00	51	69.517		61.846	40.767	69.517	82.925	OK
mar-00	52	61.560		64.437	43.358	61.560	85.516	OK
abr-00	53	62.234		68.241	47.162	62.234	89.320	OK
may-00	54	80.929		71.454	50.375	80.929	92.534	OK
jun-00	55	71.200		70.714	49.635	71.200	91.793	OK
jul-00	56	60.013		58.123	37.043	60.013	79.202	OK
ago-00	57	43.155		51.056	29.977	43.155	72.135	OK
sep-00	58	50.000		52.729	31.650	50.000	73.808	OK
oct-00	59	65.032		61.149	40.069	65.032	82.228	OK
nov-00	60	68.414		59.643	38.564	68.414	80.723	OK
dic-00	61	45.484		55.446	34.366	45.484	76.525	OK
ene-01	62	52.439		48.962	27.882	52.439	70.041	OK
feb-01	63			54.187	33.108	33.108	75.266	LOW VALUE
mar-01	64	55.935		53.994	32.915	55.935	75.073	OK
abr-01	65	52.053		57.742	36.663	52.053	78.822	OK
may-01	66	65.239		62.495	41.416	65.239	83.575	OK
jun-01	67	70.194		66.340	45.261	70.194	87.419	OK
jul-01	68	63.587		60.860	39.780	63.587	81.939	OK
ago-01	69	48.798		54.452	33.373	48.798	75.531	OK
sep-01	70	50.971		54.501	33.422	50.971	75.580	OK
oct-01	71	63.734		61.635	40.556	63.734	82.714	OK
nov-01	72	70.200		61.230	40.150	70.200	82.309	OK
dic-01	73	49.755		57.533	36.454	49.755	78.613	OK
ene-02	74	52.645		51.200	30.121	52.645	72.279	OK
feb-02	75							
mar-02	76							
ago-09	165							
sep-09	166							
oct-09	167	50.168	8.104	50.168	33.961	50.168	66.375	OK
nov-09	168	67.200		60.525	44.317	67.200	76.732	OK
dic-09	169	64.206		60.318	44.111	64.206	76.525	OK
ene-10	170	49.548		54.528	38.320	49.548	70.735	OK
feb-10	171	49.829		51.293	35.086	49.829	67.501	OK
mar-10	172	54.503		55.257	39.050	54.503	71.465	OK
abr-10	173	61.440		56.953	40.746	61.440	73.160	OK
may-10	174	54.916		59.265	43.058	54.916	75.473	OK
jun-10	175	61.440		58.880	42.673	61.440	75.087	OK
jul-10	176	60.284		59.018	42.810	60.284	75.225	OK
ago-10	177	55.329		49.204	32.997	55.329	65.412	OK
sep-10	178	32.000		41.359	25.152	32.000	57.566	OK
oct-10	179	36.748		41.476	25.269	36.748	57.683	OK
nov-10	180	55.680		47.119	30.912	55.680	63.326	OK
dic-10	181	48.929		47.601	31.394	48.929	63.808	OK
ene-11	182	38.194		44.660	28.453	38.194	60.867	OK
feb-11	183	46.857		44.729	28.521	46.857	60.936	OK
mar-11	184	49.135		49.206	32.999	49.135	65.414	OK



abr-11	185	51.627	49.897	33.690	51.627	66.104	OK
may-11	186	48.929	54.283	38.076	48.929	70.490	OK
jun-11	187	62.293	55.611	39.404	62.293	71.818	OK
jul-11	188		47.869	31.662	31.662	64.076	LOW VALUE
ago-11	189	33.445	34.003	17.795	33.445	50.210	OK
sep-11	190	34.560	22.668	6.461	34.560	38.876	OK
oct-11	191	0	29.511	13.304	13.304	45.718	LOW VALUE
nov-11	192	53.973	36.021	19.814	52.228	52.228	UP VALUE
dic-11	193	54.090	49.440	33.233	54.090	65.648	OK
ene-12	194	40.258	47.449	31.242	40.258	63.657	OK
feb-12	195	48.000	44.697	28.489	48.000	60.904	OK
mar-12	196	45.832	48.984	32.777	45.832	65.191	OK
abr-12	197	53.120	48.606	32.398	53.120	64.813	OK
may-12	198	46.865	53.453	37.245	46.865	69.660	OK
jun-12	199	60.373	55.909	39.702	60.373	72.117	OK
jul-12	200	60.490	57.010	40.803	60.490	73.218	OK
ago-12	201	50.168	49.330	33.123	50.168	65.538	OK
sep-12	202	37.333	42.793	26.585	37.333	59.000	OK
oct-12	203	40.877	44.061	27.854	40.877	60.268	OK
nov-12	204	53.973	51.230	35.022	53.973	67.437	OK
dic-12	205	58.839	49.367	33.160	58.839	65.575	OK
ene-13	206	35.290	48.367	32.159	35.290	64.574	OK
feb-13	207	50.971	42.861	26.654	50.971	59.069	OK
mar-13	208	42.323	45.960	29.753	42.323	62.168	OK
abr-13	209	44.587	44.454	28.247	44.587	60.661	OK
may-13	210	46.452	49.902	33.695	46.452	66.109	OK
jun-13	211	58.667	49.964	33.757	58.667	66.172	OK
jul-13	212	44.774	50.584	34.376	44.774	66.791	OK
ago-13	213	48.310	42.690	26.483	48.310	58.898	OK
sep-13	214	34.987	40.084	23.877	34.987	56.291	OK
oct-13	215	36.955	43.750	27.542	36.955	59.957	OK
nov-13	216	59.307	49.292	33.084	59.307	65.499	OK
dic-13	217	51.613	50.186	33.979	51.613	66.394	OK
ene-14	218	39.639	45.655	29.448	39.639	61.863	OK
feb-14	219	45.714	40.907	24.700	45.714	57.114	OK
mar-14	220	37.368	39.783	23.576	37.368	55.990	OK
abr-14	221	36.267	38.240	22.032	36.267	54.447	OK
may-14	222	41.084	44.273	28.065	41.084	60.480	OK
jun-14	223	55.467	49.250	33.043	55.467	65.458	OK
jul-14	224	51.200	53.517	37.310	51.200	69.724	OK
ago-14	225	53.884	45.908	29.701	53.884	62.115	OK
sep-14	226	32.640	39.990	23.782	32.640	56.197	OK
oct-14	227	33.445	41.157	24.950	33.445	57.365	OK
nov-14	228	57.387	46.312	30.104	57.387	62.519	OK
dic-14	229	48.103	49.202	32.995	48.103	65.409	OK
ene-15	230	42.116	44.473	28.266	42.116	60.680	OK

feb-15	231	43.200	42.546	26.339	43.200	58.754	OK
mar-15	232	42.323	45.148	28.940	42.323	61.355	OK
abr-15	233	49.920	46.851	30.644	49.920	63.058	OK
may-15	234	48.310	48.957	32.749	48.310	65.164	OK
jun-15	235	48.640	46.975	30.767	48.640	63.182	OK
jul-15	236	43.974	48.901	32.694	43.974	65.109	OK
ago-15	237	54.090	48.190	31.983	54.090	64.398	OK
sep-15	238	46.507	37.180	20.972	46.507	53.387	OK
oct-15	239	10.942	32.519	16.311	16.311	48.726	LOW VALUE
nov-15	240	40.107	30.298	14.091	40.107	46.505	OK
dic-15	241	39.845	39.976	23.769	39.845	56.183	OK

[ANEXO N° 2]

**Pronóstico local para el período Febrero 2002-Septiembre 2009**

✓ **Método de Suavizado Exponencial de Holt-Winters**

• **Alimentador A5-C1**

EXPONENTIAL SMOOTHING WITH TREND & SEASONALITY

**DEMAND (kVA)**

Alpha	Beta	Gamma
0,52	0,70	-

<i>Date data (Mes-AA)</i>	<i>Time Period (t)</i>	<i>Actual Demand (At)</i>	<i>Smoothed Average (St)</i>	<i>Smoothed Trend (Tt)</i>	<i>Smoothed Seasonal (It)</i>	<i>Forecast (Ft)</i>
dic-01	73	1403	1.538	0,00	0,91	1.394
ene-02	74	1404	1.500	0,00	0,94	1.473
feb-02	75	<b>1.473</b>	1.486	0,00	0,99	1.501
mar-02	76	<b>1.501</b>	1.487	0,00	1,01	1.498
abr-02	77	<b>1.498</b>	1.483	0,00	1,01	1.505
may-02	78	<b>1.505</b>	1.457	0,00	1,04	1.559
jun-02	79	<b>1.559</b>	1.544	0,00	0,99	1.398
jul-02	80	<b>1.398</b>	1.471	0,00	0,96	1.538
ago-02	81	<b>1.538</b>	1.542	0,00	0,98	1.407
sep-02	82	<b>1.407</b>	1.487	0,00	0,96	1.510
oct-02	83	<b>1.510</b>	1.521	0,00	0,99	1.448
nov-02	84	<b>1.448</b>	1.482	0,00	0,98	1.523
dic-02	85	<b>1.523</b>	1.580	0,00	0,95	1.351
ene-03	86	<b>1.351</b>	1.503	0,00	0,91	1.489
feb-03	87	<b>1.489</b>	1.500	0,00	0,99	1.495
mar-03	88	<b>1.495</b>	1.491	0,00	1,00	1.514
abr-03	89	<b>1.514</b>	1.495	0,00	1,01	1.506
may-03	90	<b>1.506</b>	1.472	0,00	1,03	1.552
jun-03	91	<b>1.552</b>	1.518	0,00	1,01	1.464
jul-03	92	<b>1.464</b>	1.518	0,00	0,96	1.463
ago-03	93	<b>1.463</b>	1.501	0,00	0,98	1.495
sep-03	94	<b>1.495</b>	1.534	0,00	0,97	1.435
oct-03	95	<b>1.435</b>	1.492	0,00	0,97	1.514
nov-03	96	<b>1.514</b>	1.516	0,00	0,99	1.469
dic-03	97	<b>1.469</b>	1.533	0,00	0,96	1.438
ene-04	98	<b>1.438</b>	1.556	0,00	0,92	1.398
feb-04	99	<b>1.398</b>	1.479	0,00	0,96	1.545
mar-04	100	<b>1.545</b>	1.510	0,00	1,02	1.486
abr-04	101	<b>1.486</b>	1.488	0,00	1,00	1.528
may-04	102	<b>1.528</b>	1.487	0,00	1,03	1.529
jun-04	103	<b>1.529</b>	1.498	0,00	1,02	1.508
jul-04	104	<b>1.508</b>	1.532	0,00	0,98	1.444
ago-04	105	<b>1.444</b>	1.504	0,00	0,97	1.498
sep-04	106	<b>1.498</b>	1.526	0,00	0,98	1.457
oct-04	107	<b>1.457</b>	1.514	0,00	0,96	1.479
nov-04	108	<b>1.479</b>	1.500	0,00	0,99	1.506
dic-04	109	<b>1.506</b>	1.540	0,00	0,97	1.433
ene-05	110	<b>1.433</b>	1.549	0,00	0,92	1.417
feb-05	111	<b>1.417</b>	1.511	0,00	0,94	1.486
mar-05	112	<b>1.486</b>	1.485	0,00	1,01	1.538
abr-05	113	<b>1.538</b>	1.510	0,00	1,01	1.489
may-05	114	<b>1.489</b>	1.478	0,00	1,01	1.552
jun-05	115	<b>1.552</b>	1.502	0,00	1,03	1.506
jul-05	116	<b>1.506</b>	1.522	0,00	0,99	1.469
ago-05	117	<b>1.469</b>	1.521	0,00	0,97	1.469
sep-05	118	<b>1.469</b>	1.511	0,00	0,97	1.488
oct-05	119	<b>1.488</b>	1.528	0,00	0,97	1.458
nov-05	120	<b>1.458</b>	1.500	0,00	0,98	1.510
dic-05	121	<b>1.510</b>	1.529	0,00	0,98	1.457
ene-06	122	<b>1.457</b>	1.554	0,00	0,93	1.412
feb-06	123	<b>1.412</b>	1.524	0,00	0,93	1.467

mar-06	124	<b>1.467</b>	1.490	0,00	0,99	1.533
abr-06	125	<b>1.533</b>	1.501	0,00	1,02	1.510
may-06	126	<b>1.510</b>	1.496	0,00	1,01	1.521
jun-06	127	<b>1.521</b>	1.486	0,00	1,02	1.539
jul-06	128	<b>1.539</b>	1.525	0,00	1,00	1.466
ago-06	129	<b>1.466</b>	1.522	0,00	0,96	1.473
sep-06	130	<b>1.473</b>	1.516	0,00	0,97	1.482
oct-06	131	<b>1.482</b>	1.521	0,00	0,97	1.473
nov-06	132	<b>1.473</b>	1.514	0,00	0,97	1.486
dic-06	133	<b>1.486</b>	1.513	0,00	0,98	1.488
ene-07	134	<b>1.488</b>	1.556	0,00	0,95	1.412
feb-07	135	<b>1.412</b>	1.535	0,00	0,92	1.450
mar-07	136	<b>1.450</b>	1.497	0,00	0,98	1.521
abr-07	137	<b>1.521</b>	1.495	0,00	1,02	1.525
may-07	138	<b>1.525</b>	1.502	0,00	1,01	1.511
jun-07	139	<b>1.511</b>	1.488	0,00	1,02	1.540
jul-07	140	<b>1.540</b>	1.513	0,00	1,01	1.491
ago-07	141	<b>1.491</b>	1.531	0,00	0,97	1.459
sep-07	142	<b>1.459</b>	1.515	0,00	0,97	1.488
oct-07	143	<b>1.488</b>	1.522	0,00	0,98	1.475
nov-07	144	<b>1.475</b>	1.518	0,00	0,97	1.482
dic-07	145	<b>1.482</b>	1.513	0,00	0,98	1.491
ene-08	146	<b>1.491</b>	1.543	0,00	0,96	1.437
feb-08	147	<b>1.437</b>	1.549	0,00	0,93	1.425
mar-08	148	<b>1.425</b>	1.504	0,00	0,96	1.511
abr-08	149	<b>1.511</b>	1.494	0,00	1,01	1.531
may-08	150	<b>1.531</b>	1.502	0,00	1,02	1.515
jun-08	151	<b>1.515</b>	1.494	0,00	1,02	1.530
jul-08	152	<b>1.530</b>	1.502	0,00	1,02	1.514
ago-08	153	<b>1.514</b>	1.532	0,00	0,98	1.459
sep-08	154	<b>1.459</b>	1.521	0,00	0,96	1.479
oct-08	155	<b>1.479</b>	1.518	0,00	0,97	1.485
nov-08	156	<b>1.485</b>	1.523	0,00	0,97	1.476
dic-08	157	<b>1.476</b>	1.514	0,00	0,98	1.493
ene-09	158	<b>1.493</b>	1.534	0,00	0,97	1.455
feb-09	159	<b>1.455</b>	1.553	0,00	0,93	1.421
mar-09	160	<b>1.421</b>	1.518	0,00	0,94	1.485
abr-09	161	<b>1.485</b>	1.491	0,00	1,00	1.539
may-09	162	<b>1.539</b>	1.502	0,00	1,02	1.517
jun-09	163	<b>1.517</b>	1.498	0,00	1,01	1.525
jul-09	164	<b>1.525</b>	1.499	0,00	1,02	1.523
ago-09	165	<b>1.523</b>	1.525	0,00	0,99	1.474
sep-09	166	<b>1.474</b>	1.529	0,00	0,96	1.466
oct-09	167	1.534	1.552	0,00	0,98	1.491
nov-09	168	1.534	1.564	0,00	0,98	1.512

**EXPONENTIAL SMOOTHING WITH TREND & SEASONALITY**  
**ENERGY(kWh)**

Alpha	Beta	Gamma
<b>0,61</b>	<b>0,95</b>	-

<i>Date Period (Mmm-AA)</i>	<i>Time Period (t)</i>	<i>Actual Demand (At)</i>	<i>Smoothed Average (St)</i>	<i>Smoothed Trend (Tt)</i>	<i>Smoothed Seasonal (It)</i>	<i>Forecast (Ft)</i>
dic-01	73	9884	13.676	0,00	0,72	10.815
ene-02	74	9716	11.839	0,00	0,83	12.460
feb-02	75	<b>12.460</b>	18.242	0,00	0,68	6.604
mar-02	76	<b>6.604</b>	11.206	0,00	0,61	17.962
abr-02	77	<b>17.962</b>	17.282	0,00	1,03	9.509
may-02	78	<b>9.509</b>	11.798	0,00	0,82	19.819
jun-02	79	<b>19.819</b>	15.109	0,00	1,30	13.574
jul-02	80	<b>13.574</b>	13.819	0,00	0,99	15.782
ago-02	81	<b>15.782</b>	15.885	0,00	0,99	12.676
sep-02	82	<b>12.676</b>	15.799	0,00	0,80	12.790
oct-02	83	<b>12.790</b>	14.965	0,00	0,86	14.000
nov-02	84	<b>14.000</b>	14.808	0,00	0,95	14.246
dic-02	85	<b>14.246</b>	17.777	0,00	0,80	10.722
ene-03	86	<b>10.722</b>	14.859	0,00	0,73	14.670
feb-03	87	<b>14.670</b>	19.018	0,00	0,77	10.056
mar-03	88	<b>10.056</b>	17.487	0,00	0,58	11.584
abr-03	89	<b>11.584</b>	13.682	0,00	0,86	18.008
may-03	90	<b>18.008</b>	18.683	0,00	0,96	11.260
jun-03	91	<b>11.260</b>	12.555	0,00	0,92	24.357
jul-03	92	<b>24.357</b>	19.975	0,00	1,21	12.372
ago-03	93	<b>12.372</b>	15.415	0,00	0,81	19.770
sep-03	94	<b>19.770</b>	21.040	0,00	0,93	12.370
oct-03	95	<b>12.370</b>	17.019	0,00	0,73	18.014
nov-03	96	<b>18.014</b>	18.256	0,00	0,98	16.096
dic-03	97	<b>16.096</b>	19.431	0,00	0,83	14.559

ene-04	98	<b>14.559</b>	19.798	0,00	0,73	14.122
feb-04	99	<b>14.122</b>	18.958	0,00	0,75	15.178
mar-04	100	<b>15.178</b>	23.447	0,00	0,64	10.934
abr-04	101	<b>10.934</b>	16.938	0,00	0,66	20.067
may-04	102	<b>20.067</b>	19.398	0,00	1,03	16.207
jun-04	103	<b>16.207</b>	18.344	0,00	0,89	17.793
jul-04	104	<b>17.793</b>	16.141	0,00	1,11	22.154
ago-04	105	<b>22.154</b>	22.939	0,00	0,96	13.105
sep-04	106	<b>13.105</b>	17.517	0,00	0,76	21.397
oct-04	107	<b>21.397</b>	24.630	0,00	0,86	12.845
nov-04	108	<b>12.845</b>	17.563	0,00	0,74	24.253
dic-04	109	<b>24.253</b>	24.743	0,00	0,97	14.522
ene-05	110	<b>14.522</b>	21.702	0,00	0,67	18.185
feb-05	111	<b>18.185</b>	23.333	0,00	0,78	16.190
mar-05	112	<b>16.190</b>	24.440	0,00	0,66	15.022
abr-05	113	<b>15.022</b>	23.500	0,00	0,64	16.034
may-05	114	<b>16.034</b>	18.655	0,00	0,87	24.218
jun-05	115	<b>24.218</b>	23.965	0,00	1,00	16.513
jul-05	116	<b>16.513</b>	18.441	0,00	0,91	26.543
ago-05	117	<b>26.543</b>	24.092	0,00	1,09	17.668
sep-05	118	<b>17.668</b>	23.625	0,00	0,75	18.247
oct-05	119	<b>18.247</b>	22.127	0,00	0,83	20.364
nov-05	120	<b>20.364</b>	25.325	0,00	0,80	16.463
dic-05	121	<b>16.463</b>	20.203	0,00	0,82	24.630
ene-06	122	<b>24.630</b>	30.222	0,00	0,81	13.585
feb-06	123	<b>13.585</b>	22.442	0,00	0,61	23.504
mar-06	124	<b>23.504</b>	30.426	0,00	0,77	14.846
abr-06	125	<b>14.846</b>	26.014	0,00	0,57	19.475
may-06	126	<b>19.475</b>	23.832	0,00	0,82	22.581
jun-06	127	<b>22.581</b>	23.010	0,00	0,98	23.934
jul-06	128	<b>23.934</b>	25.087	0,00	0,95	20.849
ago-06	129	<b>20.849</b>	21.403	0,00	0,98	27.459
sep-06	130	<b>27.459</b>	30.731	0,00	0,89	16.016
oct-06	131	<b>16.016</b>	23.806	0,00	0,68	25.400
nov-06	132	<b>25.400</b>	28.625	0,00	0,88	19.071
dic-06	133	<b>19.071</b>	25.302	0,00	0,76	23.552
ene-07	134	<b>23.552</b>	27.652	0,00	0,85	20.440
feb-07	135	<b>20.440</b>	31.093	0,00	0,66	16.977
mar-07	136	<b>16.977</b>	25.629	0,00	0,67	23.846
abr-07	137	<b>23.846</b>	35.331	0,00	0,67	14.715
may-07	138	<b>14.715</b>	24.729	0,00	0,61	28.962
jun-07	139	<b>28.962</b>	27.626	0,00	1,05	24.297
jul-07	140	<b>24.297</b>	26.348	0,00	0,92	26.290
ago-07	141	<b>26.290</b>	26.638	0,00	0,99	25.824
sep-07	142	<b>25.824</b>	28.163	0,00	0,92	23.608
oct-07	143	<b>23.608</b>	32.147	0,00	0,73	19.164
nov-07	144	<b>19.164</b>	25.776	0,00	0,75	28.387
dic-07	145	<b>28.387</b>	32.922	0,00	0,86	19.517
ene-08	146	<b>19.517</b>	26.853	0,00	0,73	27.968
feb-08	147	<b>27.968</b>	36.511	0,00	0,76	17.595
mar-08	148	<b>17.595</b>	30.315	0,00	0,58	24.376
abr-08	149	<b>24.376</b>	34.019	0,00	0,71	20.308
may-08	150	<b>20.308</b>	33.700	0,00	0,60	20.625
jun-08	151	<b>20.625</b>	25.182	0,00	0,83	35.219
jul-08	152	<b>35.219</b>	33.081	0,00	1,06	23.258
ago-08	153	<b>23.258</b>	27.282	0,00	0,86	32.638
sep-08	154	<b>32.638</b>	32.389	0,00	1,00	24.974
oct-08	155	<b>24.974</b>	33.452	0,00	0,75	23.698
nov-08	156	<b>23.698</b>	32.309	0,00	0,73	25.105
dic-08	157	<b>25.105</b>	30.470	0,00	0,83	27.689
ene-09	158	<b>27.689</b>	34.928	0,00	0,79	22.332
feb-09	159	<b>22.332</b>	31.536	0,00	0,71	26.562
mar-09	160	<b>26.562</b>	40.007	0,00	0,66	18.440
abr-09	161	<b>18.440</b>	31.353	0,00	0,59	28.574
may-09	162	<b>28.574</b>	41.142	0,00	0,69	18.899
jun-09	163	<b>18.899</b>	29.930	0,00	0,64	34.163
jul-09	164	<b>34.163</b>	31.377	0,00	1,09	31.653
ago-09	165	<b>31.653</b>	34.709	0,00	0,91	26.960
sep-09	166	<b>26.960</b>	29.931	0,00	0,91	34.816
oct-09	167	13.523	22.734	0,00	0,60	22.323
nov-09	168	15.467	21.714	0,00	0,71	16.694

• Alimentador A7

EXPONENTIAL SMOOTHING WITH TREND & SEASONALITY  
DEMAND (kVA)

Alpha	Beta	Gamma
0,30	0,35	-

Date Data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
dic-01	73	1144	1.128	0,00	0,94	967
ene-02	74	1197	1.318	0,00	0,76	768
feb-02	75	<b>768</b>	1.288	0,00	0,62	831
mar-02	76	<b>831</b>	1.280	0,00	0,65	847
abr-02	77	<b>847</b>	1.250	0,00	0,70	919
may-02	78	<b>919</b>	1.224	0,00	0,78	986
jun-02	79	<b>986</b>	1.082	0,00	1,18	1.614
jul-02	80	<b>1614</b>	1.168	0,00	1,25	1.274
ago-02	81	<b>1274</b>	1.211	0,00	1,00	1.134
sep-02	82	<b>1134</b>	1.198	0,00	0,96	1.177
oct-02	83	<b>1177</b>	1.159	0,00	1,07	1.323
nov-02	84	<b>1323</b>	1.161	0,00	1,14	1.315
dic-02	85	<b>1315</b>	1.231	0,00	0,99	1.094
ene-03	86	<b>1094</b>	1.293	0,00	0,79	936
feb-03	87	<b>936</b>	1.359	0,00	0,64	800
mar-03	88	<b>800</b>	1.318	0,00	0,64	890
abr-03	89	<b>890</b>	1.302	0,00	0,70	927
may-03	90	<b>927</b>	1.270	0,00	0,76	1.010
jun-03	91	<b>1010</b>	1.147	0,00	1,07	1.494
jul-03	92	<b>1494</b>	1.161	0,00	1,26	1.433
ago-03	93	<b>1.433</b>	1.243	0,00	1,05	1.161
sep-03	94	<b>1.161</b>	1.232	0,00	0,96	1.197
oct-03	95	<b>1.197</b>	1.197	0,00	1,05	1.322
nov-03	96	<b>1.322</b>	1.187	0,00	1,13	1.361
dic-03	97	<b>1.361</b>	1.244	0,00	1,02	1.171
ene-04	98	<b>1.171</b>	1.316	0,00	0,83	983
feb-04	99	<b>983</b>	1.380	0,00	0,67	846
mar-04	100	<b>846</b>	1.364	0,00	0,63	880
abr-04	101	<b>880</b>	1.334	0,00	0,68	950
may-04	102	<b>950</b>	1.309	0,00	0,75	1.013
jun-04	103	<b>1.013</b>	1.199	0,00	0,99	1.403
jul-04	104	<b>1.403</b>	1.173	0,00	1,24	1.514
ago-04	105	<b>1.514</b>	1.252	0,00	1,11	1.235
sep-04	106	<b>1.235</b>	1.265	0,00	0,96	1.197
oct-04	107	<b>1.197</b>	1.228	0,00	1,02	1.325
nov-04	108	<b>1.325</b>	1.212	0,00	1,12	1.386
dic-04	109	<b>1.386</b>	1.254	0,00	1,05	1.241
ene-05	110	<b>1.241</b>	1.329	0,00	0,86	1.035
feb-05	111	<b>1.035</b>	1.396	0,00	0,69	887
mar-05	112	<b>887</b>	1.398	0,00	0,63	881
abr-05	113	<b>881</b>	1.366	0,00	0,67	956
may-05	114	<b>956</b>	1.339	0,00	0,74	1.021
jun-05	115	<b>1.021</b>	1.246	0,00	0,93	1.330
jul-05	116	<b>1.330</b>	1.194	0,00	1,20	1.544
ago-05	117	<b>1.544</b>	1.254	0,00	1,15	1.323
sep-05	118	<b>1.323</b>	1.290	0,00	0,98	1.208
oct-05	119	<b>1.208</b>	1.258	0,00	1,00	1.318
nov-05	120	<b>1.318</b>	1.235	0,00	1,10	1.404
dic-05	121	<b>1.404</b>	1.264	0,00	1,07	1.299
ene-06	122	<b>1.299</b>	1.337	0,00	0,90	1.091
feb-06	123	<b>1.091</b>	1.408	0,00	0,72	927
mar-06	124	<b>927</b>	1.425	0,00	0,64	891
abr-06	125	<b>891</b>	1.396	0,00	0,66	955
may-06	126	<b>955</b>	1.367	0,00	0,72	1.027
jun-06	127	<b>1.027</b>	1.287	0,00	0,89	1.274
jul-06	128	<b>1.274</b>	1.221	0,00	1,14	1.539
ago-06	129	<b>1.539</b>	1.256	0,00	1,18	1.405
sep-06	130	<b>1.405</b>	1.307	0,00	1,02	1.237
oct-06	131	<b>1.237</b>	1.286	0,00	0,99	1.308
nov-06	132	<b>1.308</b>	1.257	0,00	1,08	1.413
dic-06	133	<b>1.413</b>	1.275	0,00	1,09	1.348
ene-07	134	<b>1.348</b>	1.341	0,00	0,94	1.149
feb-07	135	<b>1.149</b>	1.416	0,00	0,75	968
mar-07	136	<b>968</b>	1.446	0,00	0,65	905
abr-07	137	<b>905</b>	1.424	0,00	0,65	953
may-07	138	<b>953</b>	1.393	0,00	0,71	1.030
jun-07	139	<b>1.030</b>	1.324	0,00	0,85	1.233
jul-07	140	<b>1.233</b>	1.250	0,00	1,09	1.512
ago-07	141	<b>1.512</b>	1.261	0,00	1,18	1.472

sep-07	142	1.472	1.317	0,00	1,05	1.281
oct-07	143	1.281	1.311	0,00	0,98	1.300
nov-07	144	1.300	1.279	0,00	1,06	1.414
dic-07	145	1.414	1.287	0,00	1,09	1.388
ene-08	146	1.388	1.345	0,00	0,97	1.206
feb-08	147	1.206	1.422	0,00	0,79	1.013
mar-08	148	1.013	1.463	0,00	0,66	923
abr-08	149	923	1.450	0,00	0,65	952
may-08	150	952	1.418	0,00	0,70	1.029
jun-08	151	1.029	1.356	0,00	0,82	1.201
jul-08	152	1.201	1.281	0,00	1,04	1.475
ago-08	153	1.475	1.270	0,00	1,18	1.518
sep-08	154	1.518	1.322	0,00	1,09	1.336
oct-08	155	1.336	1.333	0,00	0,99	1.300
nov-08	156	1.300	1.302	0,00	1,04	1.408
dic-08	157	1.408	1.299	0,00	1,09	1.420
ene-09	158	1.420	1.348	0,00	1,00	1.261
feb-09	159	1.261	1.425	0,00	0,82	1.060
mar-09	160	1.060	1.476	0,00	0,68	947
abr-09	161	947	1.473	0,00	0,64	953
may-09	162	953	1.442	0,00	0,68	1.025
jun-09	163	1.025	1.386	0,00	0,79	1.177
jul-09	164	1.177	1.311	0,00	0,99	1.435
ago-09	165	1.435	1.284	0,00	1,16	1.543
sep-09	166	1.543	1.325	0,00	1,11	1.394
oct-09	167	1.066	1.251	0,00	0,94	1.312
nov-09	168	943	1.148	0,00	0,96	1.296

### EXPONENTIAL SMOOTHING WITH TREND & SEASONALITY

#### ENERGY(kWh)

Alpha	Beta	Gamma
0,01	0,10	-

Date Period (Mmm-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (Lt)	Forecast (Ft)
dic-01	73	6194	9.560	0,00	0,90	8.890
ene-02	74	10142	9.579	0,00	0,90	8.459
feb-02	75	8459	9.576	0,00	0,91	8.716
mar-02	76	8716	9.575	0,00	0,92	8.774
abr-02	77	8774	9.578	0,00	0,89	8.533
may-02	78	8533	9.564	0,00	1,03	10.008
jun-02	79	10008	9.556	0,00	1,13	10.946
jul-02	80	10946	9.569	0,00	1,02	9.585
ago-02	81	9585	9.625	0,00	0,67	6.070
sep-02	82	6070	9.589	0,00	0,97	9.692
oct-02	83	9692	9.580	0,00	1,10	10.646
nov-02	84	10646	9.579	0,00	1,12	10.743
dic-02	85	10743	9.603	0,00	0,92	8.613
ene-03	86	8613	9.602	0,00	0,90	8.665
feb-03	87	8665	9.602	0,00	0,91	8.712
mar-03	88	8712	9.601	0,00	0,91	8.792
abr-03	89	8792	9.603	0,00	0,90	8.580
may-03	90	8580	9.591	0,00	1,02	9.888
jun-03	91	9888	9.582	0,00	1,12	10.883
jul-03	92	10883	9.593	0,00	1,03	9.747
ago-03	93	9.747	9.642	0,00	0,70	6.432
sep-03	94	6.432	9.612	0,00	0,94	9.350
oct-03	95	9.350	9.601	0,00	1,09	10.577
nov-03	96	10.577	9.600	0,00	1,12	10.757
dic-03	97	10.757	9.620	0,00	0,94	8.842
ene-04	98	8.842	9.622	0,00	0,90	8.675
feb-04	99	8.675	9.622	0,00	0,91	8.726
mar-04	100	8.726	9.621	0,00	0,91	8.803
abr-04	101	8.803	9.623	0,00	0,90	8.619
may-04	102	8.619	9.611	0,00	1,00	9.778
jun-04	103	9.778	9.602	0,00	1,11	10.808
jul-04	104	10.808	9.611	0,00	1,04	9.880
ago-04	105	9.880	9.655	0,00	0,74	6.771
sep-04	106	6.771	9.631	0,00	0,92	9.072
oct-04	107	9.072	9.618	0,00	1,07	10.476
nov-04	108	10.476	9.616	0,00	1,12	10.758
dic-04	109	10.758	9.634	0,00	0,96	9.047
ene-05	110	9.047	9.638	0,00	0,91	8.704
feb-05	111	8.704	9.637	0,00	0,91	8.734
mar-05	112	8.734	9.636	0,00	0,91	8.809
abr-05	113	8.809	9.638	0,00	0,90	8.651
may-05	114	8.651	9.628	0,00	0,99	9.679
jun-05	115	9.679	9.619	0,00	1,10	10.724

jul-05	116	<b>10.724</b>	9.626	0,00	1,05	9.989
ago-05	117	<b>9.989</b>	9.665	0,00	0,77	7.088
sep-05	118	<b>7.088</b>	9.646	0,00	0,90	8.852
oct-05	119	<b>8.852</b>	9.632	0,00	1,06	10.353
nov-05	120	<b>10.353</b>	9.628	0,00	1,11	10.746
dic-05	121	<b>10.746</b>	9.644	0,00	0,97	9.228
ene-06	122	<b>9.228</b>	9.649	0,00	0,91	8.747
feb-06	123	<b>8.747</b>	9.649	0,00	0,91	8.742
mar-06	124	<b>8.742</b>	9.649	0,00	0,91	8.813
abr-06	125	<b>8.813</b>	9.650	0,00	0,90	8.678
may-06	126	<b>8.678</b>	9.641	0,00	0,98	9.589
jun-06	127	<b>9.589</b>	9.631	0,00	1,09	10.635
jul-06	128	<b>10.635</b>	9.637	0,00	1,05	10.075
ago-06	129	<b>10.075</b>	9.672	0,00	0,79	7.383
sep-06	130	<b>7.383</b>	9.657	0,00	0,88	8.684
oct-06	131	<b>8.684</b>	9.643	0,00	1,04	10.216
nov-06	132	<b>10.216</b>	9.638	0,00	1,11	10.719
dic-06	133	<b>10.719</b>	9.652	0,00	0,99	9.388
ene-07	134	<b>9.388</b>	9.659	0,00	0,92	8.802
feb-07	135	<b>8.802</b>	9.659	0,00	0,91	8.751
mar-07	136	<b>8.751</b>	9.658	0,00	0,91	8.815
abr-07	137	<b>8.815</b>	9.660	0,00	0,90	8.700
may-07	138	<b>8.700</b>	9.652	0,00	0,98	9.508
jun-07	139	<b>9.508</b>	9.642	0,00	1,08	10.543
jul-07	140	<b>10.543</b>	9.646	0,00	1,06	10.141
ago-07	141	<b>10.141</b>	9.677	0,00	0,82	7.655
sep-07	142	<b>7.655</b>	9.667	0,00	0,88	8.559
oct-07	143	<b>8.559</b>	9.652	0,00	1,03	10.074
nov-07	144	<b>10.074</b>	9.647	0,00	1,10	10.680
dic-07	145	<b>10.680</b>	9.659	0,00	1,00	9.528
ene-08	146	<b>9.528</b>	9.666	0,00	0,92	8.866
feb-08	147	<b>8.866</b>	9.667	0,00	0,91	8.763
mar-08	148	<b>8.763</b>	9.666	0,00	0,91	8.816
abr-08	149	<b>8.816</b>	9.667	0,00	0,90	8.718
may-08	150	<b>8.718</b>	9.660	0,00	0,97	9.435
jun-08	151	<b>9.435</b>	9.651	0,00	1,07	10.450
jul-08	152	<b>10.450</b>	9.653	0,00	1,06	10.190
ago-08	153	<b>10.190</b>	9.681	0,00	0,84	7.907
sep-08	154	<b>7.907</b>	9.675	0,00	0,87	8.473
oct-08	155	<b>8.473</b>	9.660	0,00	1,01	9.932
nov-08	156	<b>9.932</b>	9.654	0,00	1,09	10.629
dic-08	157	<b>10.629</b>	9.664	0,00	1,01	9.649
ene-09	158	<b>9.649</b>	9.672	0,00	0,93	8.936
feb-09	159	<b>8.936</b>	9.673	0,00	0,91	8.778
mar-09	160	<b>8.778</b>	9.673	0,00	0,91	8.816
abr-09	161	<b>8.816</b>	9.674	0,00	0,90	8.734
may-09	162	<b>8.734</b>	9.667	0,00	0,96	9.371
jun-09	163	<b>9.371</b>	9.658	0,00	1,06	10.357
jul-09	164	<b>10.357</b>	9.659	0,00	1,06	10.224
ago-09	165	<b>10.224</b>	9.684	0,00	0,86	8.137
sep-09	166	<b>8.137</b>	9.681	0,00	0,87	8.420
oct-09	167	7.432	9.657	0,00	0,99	9.793
nov-09	168	8.880	9.642	0,00	1,08	10.556

## • Alimentador A68

### EXPONENTIAL SMOOTHING WITH TREND & SEASONALITY DEMAND (kVA)

Alpha	Beta	Gamma
0,30	0,30	-

Date Data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
dic-01	73	7462,40	6.947	0,00	0,99	6.199
ene-02	74	6400,00	6.801	0,00	0,98	6.882
feb-02	75	<b>6882</b>	6.878	0,00	0,98	6.632
mar-02	76	<b>6632</b>	7.006	0,00	0,92	6.244
abr-02	77	<b>6244</b>	6.828	0,00	0,96	6.824
may-02	78	<b>6824</b>	6.681	0,00	1,06	7.352
jun-02	79	<b>7352</b>	6.729	0,00	1,08	7.179
jul-02	80	<b>7179</b>	6.833	0,00	1,03	6.828
ago-02	81	<b>6828</b>	7.011	0,00	0,94	6.281
sep-02	82	<b>6281</b>	6.900	0,00	0,94	6.631
oct-02	83	<b>6631</b>	6.685	0,00	1,05	7.402
nov-02	84	<b>7402</b>	6.684	0,00	1,11	7.404
dic-02	85	<b>7404</b>	6.934	0,00	1,01	6.584
ene-03	86	<b>6584</b>	6.878	0,00	0,97	6.765
feb-03	87	<b>6765</b>	6.880	0,00	0,98	6.759



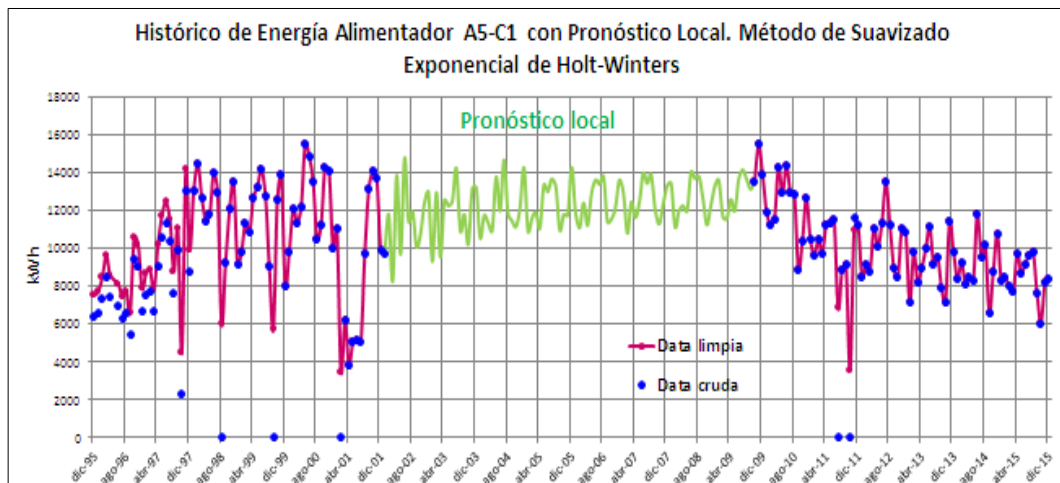
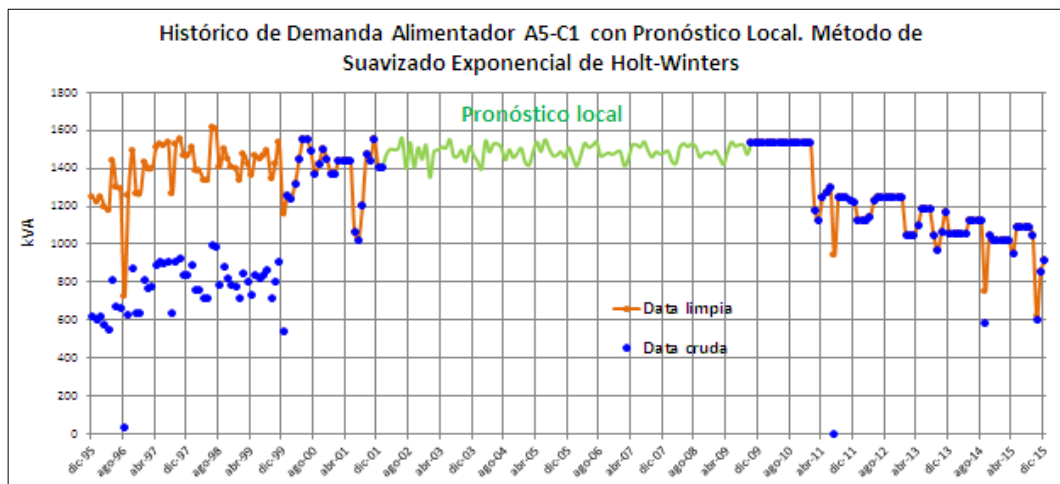
mar-03	88	<b>6759</b>	7.021	0,00	0,93	6.325
abr-03	89	<b>6325</b>	6.900	0,00	0,94	6.714
may-03	90	<b>6714</b>	6.729	0,00	1,04	7.315
jun-03	91	<b>7315</b>	6.743	0,00	1,08	7.267
jul-03	92	<b>7.267</b>	6.846	0,00	1,04	6.914
ago-03	93	<b>6.914</b>	7.009	0,00	0,95	6.405
sep-03	94	<b>6.405</b>	6.961	0,00	0,93	6.555
oct-03	95	<b>6.555</b>	6.748	0,00	1,03	7.299
nov-03	96	<b>7.299</b>	6.701	0,00	1,10	7.474
dic-03	97	<b>7.474</b>	6.911	0,00	1,03	6.767
ene-04	98	<b>6.767</b>	6.930	0,00	0,97	6.705
feb-04	99	<b>6.705</b>	6.898	0,00	0,98	6.812
mar-04	100	<b>6.812</b>	7.020	0,00	0,94	6.431
abr-04	101	<b>6.431</b>	6.957	0,00	0,94	6.629
may-04	102	<b>6.629</b>	6.780	0,00	1,02	7.245
jun-04	103	<b>7.245</b>	6.756	0,00	1,08	7.332
jul-04	104	<b>7.332</b>	6.851	0,00	1,05	7.001
ago-04	105	<b>7.001</b>	7.005	0,00	0,97	6.515
sep-04	106	<b>6.515</b>	7.003	0,00	0,93	6.519
oct-04	107	<b>6.519</b>	6.810	0,00	1,00	7.181
nov-04	108	<b>7.181</b>	6.722	0,00	1,09	7.504
dic-04	109	<b>7.504</b>	6.888	0,00	1,05	6.932
ene-05	110	<b>6.932</b>	6.961	0,00	0,98	6.696
feb-05	111	<b>6.696</b>	6.923	0,00	0,98	6.819
mar-05	112	<b>6.819</b>	7.014	0,00	0,95	6.534
abr-05	113	<b>6.534</b>	6.999	0,00	0,94	6.582
may-05	114	<b>6.582</b>	6.830	0,00	1,00	7.155
jun-05	115	<b>7.155</b>	6.771	0,00	1,07	7.368
jul-05	116	<b>7.368</b>	6.852	0,00	1,06	7.086
ago-05	117	<b>7.086</b>	6.998	0,00	0,98	6.615
sep-05	118	<b>6.615</b>	7.032	0,00	0,93	6.512
oct-05	119	<b>6.512</b>	6.866	0,00	0,99	7.066
nov-05	120	<b>7.066</b>	6.748	0,00	1,08	7.497
dic-05	121	<b>7.497</b>	6.868	0,00	1,06	7.077
ene-06	122	<b>7.077</b>	6.976	0,00	0,99	6.725
feb-06	123	<b>6.725</b>	6.950	0,00	0,97	6.808
mar-06	124	<b>6.808</b>	7.010	0,00	0,96	6.619
abr-06	125	<b>6.619</b>	7.026	0,00	0,94	6.568
may-06	126	<b>6.568</b>	6.879	0,00	0,99	7.059
jun-06	127	<b>7.059</b>	6.791	0,00	1,06	7.376
jul-06	128	<b>7.376</b>	6.851	0,00	1,06	7.165
ago-06	129	<b>7.165</b>	6.990	0,00	0,99	6.711
sep-06	130	<b>6.711</b>	7.049	0,00	0,94	6.526
oct-06	131	<b>6.526</b>	6.916	0,00	0,97	6.965
nov-06	132	<b>6.965</b>	6.779	0,00	1,06	7.459
dic-06	133	<b>7.459</b>	6.853	0,00	1,07	7.196
ene-07	134	<b>7.196</b>	6.978	0,00	1,00	6.783
feb-07	135	<b>6.783</b>	6.975	0,00	0,97	6.793
mar-07	136	<b>6.793</b>	7.010	0,00	0,96	6.682
abr-07	137	<b>6.682</b>	7.043	0,00	0,94	6.578
may-07	138	<b>6.578</b>	6.924	0,00	0,98	6.970
jun-07	139	<b>6.970</b>	6.815	0,00	1,05	7.356
jul-07	140	<b>7.356</b>	6.849	0,00	1,07	7.235
ago-07	141	<b>7.235</b>	6.980	0,00	1,01	6.803
sep-07	142	<b>6.803</b>	7.059	0,00	0,95	6.555
oct-07	143	<b>6.555</b>	6.959	0,00	0,96	6.880
nov-07	144	<b>6.880</b>	6.813	0,00	1,05	7.399
dic-07	145	<b>7.399</b>	6.844	0,00	1,07	7.287
ene-08	146	<b>7.287</b>	6.972	0,00	1,02	6.859
feb-08	147	<b>6.859</b>	6.995	0,00	0,98	6.785
mar-08	148	<b>6.785</b>	7.014	0,00	0,96	6.724
abr-08	149	<b>6.724</b>	7.052	0,00	0,95	6.604
may-08	150	<b>6.604</b>	6.963	0,00	0,97	6.896
jun-08	151	<b>6.896</b>	6.843	0,00	1,04	7.314
jul-08	152	<b>7.314</b>	6.850	0,00	1,07	7.290
ago-08	153	<b>7.290</b>	6.969	0,00	1,02	6.892
sep-08	154	<b>6.892</b>	7.063	0,00	0,96	6.596
oct-08	155	<b>6.596</b>	6.995	0,00	0,96	6.814
nov-08	156	<b>6.814</b>	6.848	0,00	1,03	7.325
dic-08	157	<b>7.325</b>	6.842	0,00	1,07	7.349
ene-09	158	<b>7.349</b>	6.961	0,00	1,03	6.945
feb-09	159	<b>6.945</b>	7.009	0,00	0,98	6.789
mar-09	160	<b>6.789</b>	7.021	0,00	0,96	6.750
abr-09	161	<b>6.750</b>	7.057	0,00	0,95	6.636
may-09	162	<b>6.636</b>	6.995	0,00	0,96	6.839
jun-09	163	<b>6.839</b>	6.873	0,00	1,02	7.258
jul-09	164	<b>7.258</b>	6.854	0,00	1,06	7.327
ago-09	165	<b>7.327</b>	6.957	0,00	1,03	6.978
sep-09	166	<b>6.978</b>	7.061	0,00	0,97	6.646
oct-09	167	6.061	6.840	0,00	0,94	6.766
nov-09	168	6.196	6.590	0,00	1,00	7.056

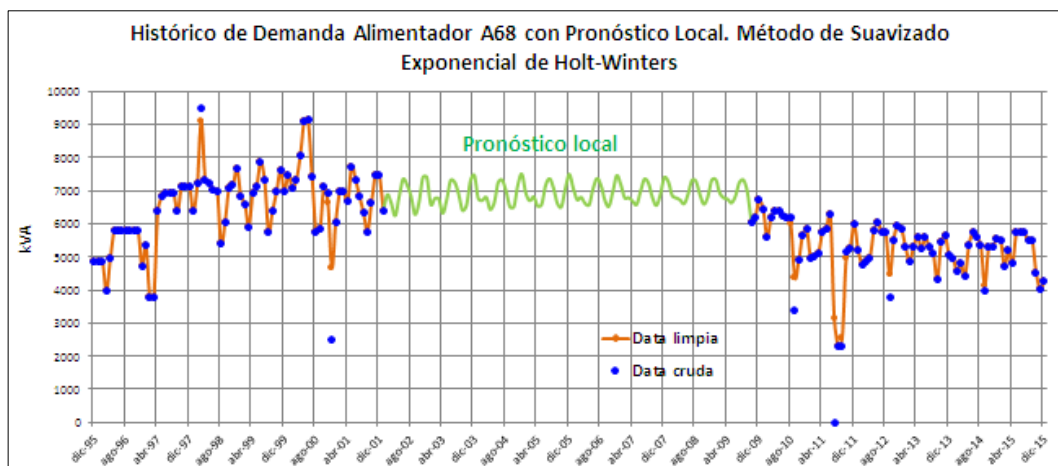
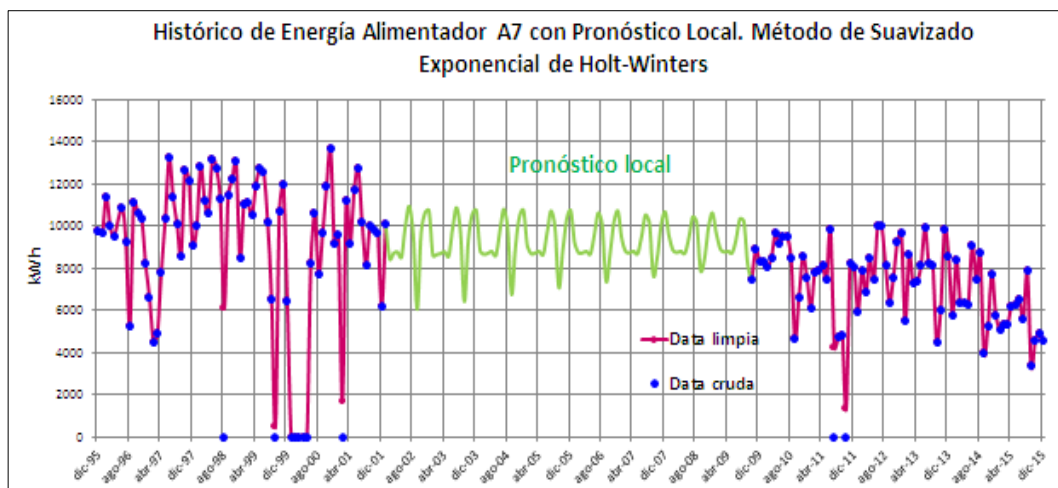
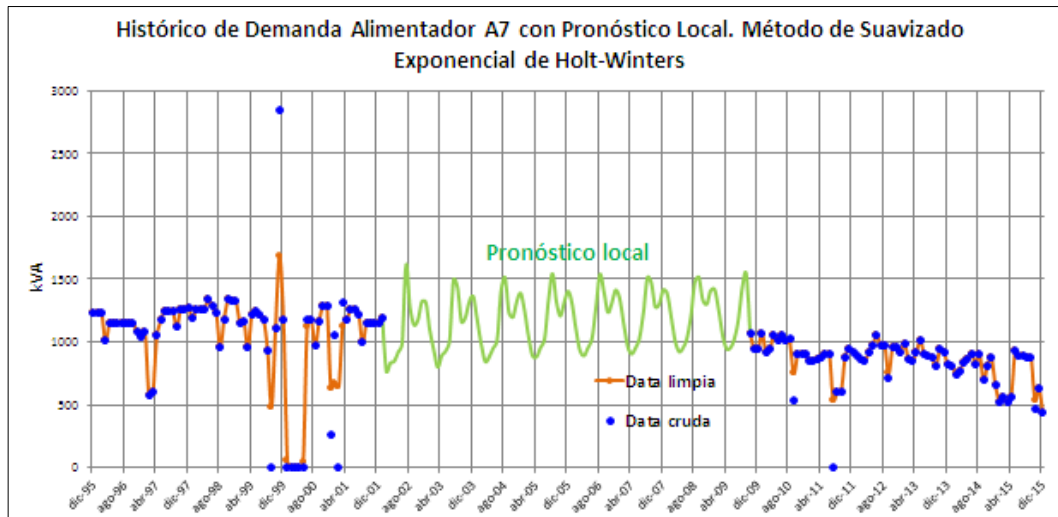
EXPONENTIAL SMOOTHING WITH TREND & SEASONALITY  
ENERGY(kWh)

Alpha	Beta	Gamma
0,01	0,11	-

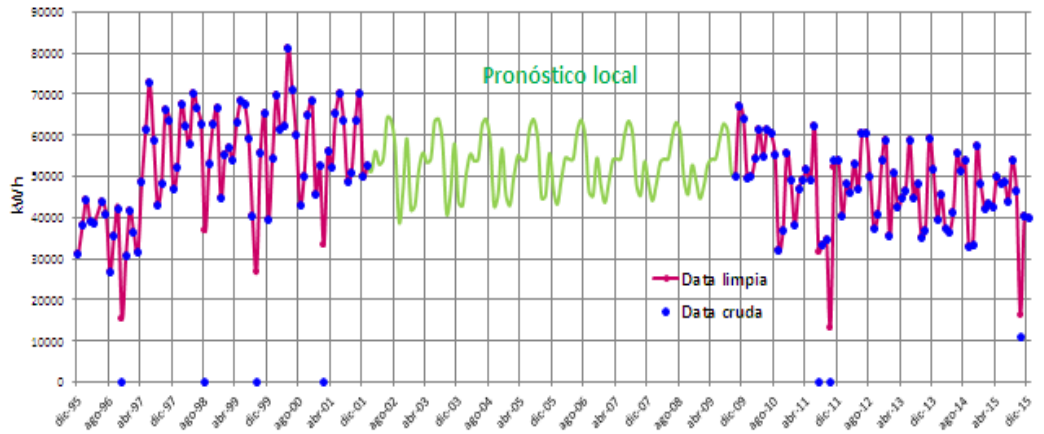
<i>Date data</i> (mmm-aa)	<i>Time Period</i> (t)	<i>Actual Demand</i> (At)	<i>Smoothed Average</i> (St)	<i>Smoothed Trend</i> (Tt)	<i>Smoothed Seasonal</i> (Lt)	<i>Forecast</i> (Ft)
dic-01	73	49755	46.104	0,00	0,93	41.694
ene-02	74	52645	46.117	0,00	1,11	51.246
feb-02	75	<b>51246</b>	46.077	0,00	1,21	56.108
mar-02	76	<b>56108</b>	46.105	0,00	1,16	52.923
abr-02	77	<b>52923</b>	46.094	0,00	1,17	54.220
may-02	78	<b>54220</b>	46.022	0,00	1,37	64.302
jun-02	79	<b>64302</b>	46.026	0,00	1,38	63.644
jul-02	80	<b>63644</b>	46.077	0,00	1,26	57.276
ago-02	81	<b>57276</b>	46.294	0,00	0,89	38.941
sep-02	82	<b>38941</b>	46.217	0,00	0,99	46.764
oct-02	83	<b>46764</b>	46.120	0,00	1,25	59.187
nov-02	84	<b>59187</b>	46.310	0,00	0,95	41.906
dic-02	85	<b>41906</b>	46.300	0,00	0,92	42.843
ene-03	86	<b>42843</b>	46.221	0,00	1,09	51.617
feb-03	87	<b>51617</b>	46.187	0,00	1,20	55.704
mar-03	88	<b>55704</b>	46.207	0,00	1,16	53.397
abr-03	89	<b>53397</b>	46.200	0,00	1,17	54.199
may-03	90	<b>54199</b>	46.134	0,00	1,35	63.349
jun-03	91	<b>63349</b>	46.130	0,00	1,38	63.871
jul-03	92	<b>63871</b>	46.176	0,00	1,27	58.099
ago-03	93	<b>58.099</b>	46.368	0,00	0,93	41.016
sep-03	94	<b>41.016</b>	46.318	0,00	0,98	45.984
oct-03	95	<b>45.984</b>	46.222	0,00	1,22	57.958
nov-03	96	<b>57.958</b>	46.371	0,00	0,98	43.877
dic-03	97	<b>43.877</b>	46.382	0,00	0,93	42.797
ene-04	98	<b>42.797</b>	46.310	0,00	1,08	50.750
feb-04	99	<b>50.750</b>	46.271	0,00	1,18	55.364
mar-04	100	<b>55.364</b>	46.285	0,00	1,17	53.746
abr-04	101	<b>53.746</b>	46.281	0,00	1,17	54.203
may-04	102	<b>54.203</b>	46.220	0,00	1,33	62.460
jun-04	103	<b>62.460</b>	46.209	0,00	1,38	63.934
jul-04	104	<b>63.934</b>	46.249	0,00	1,29	58.828
ago-04	105	<b>58.828</b>	46.421	0,00	0,97	42.937
sep-04	106	<b>42.937</b>	46.395	0,00	0,97	45.493
oct-04	107	<b>45.493</b>	46.303	0,00	1,20	56.744
nov-04	108	<b>56.744</b>	46.417	0,00	1,01	45.484
dic-04	109	<b>45.484</b>	46.444	0,00	0,93	42.957
ene-05	110	<b>42.957</b>	46.379	0,00	1,06	49.949
feb-05	111	<b>49.949</b>	46.337	0,00	1,17	54.944
mar-05	112	<b>54.944</b>	46.345	0,00	1,17	53.999
abr-05	113	<b>53.999</b>	46.343	0,00	1,17	54.224
may-05	114	<b>54.224</b>	46.288	0,00	1,31	61.642
jun-05	115	<b>61.642</b>	46.272	0,00	1,37	63.867
jul-05	116	<b>63.867</b>	46.306	0,00	1,30	59.464
ago-05	117	<b>59.464</b>	46.459	0,00	1,00	44.715
sep-05	118	<b>44.715</b>	46.453	0,00	0,97	45.252
oct-05	119	<b>45.252</b>	46.367	0,00	1,17	55.587
nov-05	120	<b>55.587</b>	46.454	0,00	1,03	46.772
dic-05	121	<b>46.772</b>	46.492	0,00	0,94	43.267
ene-06	122	<b>43.267</b>	46.435	0,00	1,05	49.237
feb-06	123	<b>49.237</b>	46.391	0,00	1,16	54.465
mar-06	124	<b>54.465</b>	46.393	0,00	1,17	54.164
abr-06	125	<b>54.164</b>	46.393	0,00	1,17	54.255
may-06	126	<b>54.255</b>	46.342	0,00	1,30	60.898
jun-06	127	<b>60.898</b>	46.322	0,00	1,37	63.699
jul-06	128	<b>63.699</b>	46.350	0,00	1,30	60.008
ago-06	129	<b>60.008</b>	46.487	0,00	1,03	46.360
sep-06	130	<b>46.360</b>	46.498	0,00	0,98	45.221
oct-06	131	<b>45.221</b>	46.419	0,00	1,15	54.512
nov-06	132	<b>54.512</b>	46.484	0,00	1,05	47.784
dic-06	133	<b>47.784</b>	46.528	0,00	0,95	43.677
ene-07	134	<b>43.677</b>	46.481	0,00	1,03	48.624
feb-07	135	<b>48.624</b>	46.435	0,00	1,15	53.948
mar-07	136	<b>53.948</b>	46.432	0,00	1,17	54.249
abr-07	137	<b>54.249</b>	46.432	0,00	1,17	54.291
may-07	138	<b>54.291</b>	46.386	0,00	1,28	60.225
jun-07	139	<b>60.225</b>	46.363	0,00	1,36	63.454
jul-07	140	<b>63.454</b>	46.385	0,00	1,31	60.463
ago-07	141	<b>60.463</b>	46.507	0,00	1,06	47.879
sep-07	142	<b>47.879</b>	46.533	0,00	0,98	45.365
oct-07	143	<b>45.365</b>	46.462	0,00	1,13	53.539

nov-07	144	<b>53.539</b>	46.510	0,00	1,06	48.561
dic-07	145	<b>48.561</b>	46.556	0,00	0,96	44.148
ene-08	146	<b>44.148</b>	46.518	0,00	1,02	48.114
feb-08	147	<b>48.114</b>	46.472	0,00	1,14	53.410
mar-08	148	<b>53.410</b>	46.464	0,00	1,17	54.259
abr-08	149	<b>54.259</b>	46.464	0,00	1,17	54.324
may-08	150	<b>54.324</b>	46.423	0,00	1,27	59.619
jun-08	151	<b>59.619</b>	46.397	0,00	1,35	63.152
jul-08	152	<b>63.152</b>	46.414	0,00	1,32	60.833
ago-08	153	<b>60.833</b>	46.523	0,00	1,09	49.276
sep-08	154	<b>49.276</b>	46.560	0,00	0,99	45.654
oct-08	155	<b>45.654</b>	46.498	0,00	1,11	52.678
nov-08	156	<b>52.678</b>	46.532	0,00	1,07	49.140
dic-08	157	<b>49.140</b>	46.578	0,00	0,97	44.649
ene-09	158	<b>44.649</b>	46.548	0,00	1,02	47.704
feb-09	159	<b>47.704</b>	46.503	0,00	1,12	52.867
mar-09	160	<b>52.867</b>	46.492	0,00	1,16	54.203
abr-09	161	<b>54.203</b>	46.490	0,00	1,17	54.349
may-09	162	<b>54.349</b>	46.453	0,00	1,26	59.075
jun-09	163	<b>59.075</b>	46.426	0,00	1,34	62.808
jul-09	164	<b>62.808</b>	46.438	0,00	1,32	61.123
ago-09	165	<b>61.123</b>	46.535	0,00	1,11	50.558
sep-09	166	<b>50.558</b>	46.581	0,00	1,00	46.060
oct-09	167	50.168	46.565	0,00	1,11	51.935
nov-09	168	67.200	46.730	0,00	1,11	49.597





Histórico de Energía Alimentador A68 con Pronóstico Local. Método de Suavizado Exponencial de Holt-Winters



✓ Método de Descomposición según el Modelo Aditivo y Método de Descomposición según el Modelo Multiplicativo

• Alimentador A5-C1

DEMAND (kVA)

CLASSICAL DECOMPOSITION TEMPLATE

ADDITIVE METHOD

MULTIPLICATIVE METHOD

Slope of Trend Line		1												
Intercept		1,346												
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value (Ft)		
dic-01	73	1.403	1.346	1.04	1.427	1.346	(24)	(49)	1.378	98	96	1.369		
ene-02	74	1.404	1.381	1.02	1.428	1.406	(24)	(25)	1.402	98	98	1.402		
feb-02	75	1.406	1.424	0.99	1.429	1.391	(23)	(19)	<b>1.410</b>	98	99	<b>1.409</b>		
mar-02	76	1.391	1.450	0.96	1.430	1.386	(39)	(22)	<b>1.408</b>	97	98	<b>1.407</b>		
abr-02	77	1.386	1.443	0.96	1.431	1.416	(45)	(6)	<b>1.425</b>	97	100	<b>1.424</b>		
may-02	78	1.416	1.444	0.98	1.432	1.475	(16)	75	<b>1.507</b>	99	105	<b>1.510</b>		
jun-02	79	1.475	1.438	1.03	1.433	1.535	41	29	<b>1.462</b>	103	102	<b>1.464</b>		
jul-02	80	1.535	1.444	1.06	1.434	1.523	100	14	<b>1.448</b>	107	101	<b>1.450</b>		
ago-02	81	1.523	1.440	1.06	1.436	1.386	88	(145)	<b>1.290</b>	106	89	<b>1.284</b>		
sep-02	82	1.386	1.441	0.96	1.437	1.451	(50)	31	<b>1.468</b>	97	102	<b>1.469</b>		
oct-02	83	1.451	1.442	1.01	1.438	1.483	13	86	<b>1.523</b>	101	106	<b>1.527</b>		
nov-02	84	1.483	1.443	1.03	1.439	1.471	45	54	<b>1.492</b>	103	104	<b>1.493</b>		
dic-02	85	1.471	1.444	1.02	1.440	1.358	31	(49)	<b>1.391</b>	102	96	<b>1.382</b>		
ene-03	86	1.358	1.446	0.94	1.441	1.419	(83)	(25)	<b>1.416</b>	94	98	<b>1.415</b>		
feb-03	87	1.419	1.447	0.98	1.442	1.404	(23)	(19)	<b>1.423</b>	98	99	<b>1.422</b>		
mar-03	88	1.404	1.448	0.97	1.443	1.399	(39)	(22)	<b>1.421</b>	97	98	<b>1.420</b>		
abr-03	89	1.399	1.449	0.97	1.444	1.430	(46)	(6)	<b>1.438</b>	97	100	<b>1.438</b>		
may-03	90	1.430	1.450	0.99	1.445	1.488	(16)	75	<b>1.520</b>	99	105	<b>1.524</b>		
jun-03	91	1.488	1.451	1.03	1.447	1.549	42	29	<b>1.475</b>	103	102	<b>1.478</b>		
jul-03	92	1.549	1.452	1.07	1.448	1.537	101	14	<b>1.461</b>	107	101	<b>1.463</b>		
ago-03	93	1.537	1.454	1.06	1.449	1.399	89	(145)	<b>1.304</b>	106	89	<b>1.295</b>		
sep-03	94	1.399	1.455	0.96	1.450	1.464	(51)	31	<b>1.481</b>	97	102	<b>1.482</b>		
oct-03	95	1.464	1.456	1.01	1.451	1.497	13	86	<b>1.537</b>	101	106	<b>1.541</b>		
nov-03	96	1.497	1.457	1.03	1.452	1.485	45	54	<b>1.506</b>	103	104	<b>1.507</b>		
dic-03	97	1.485	1.458	1.02	1.453	1.371	31	(49)	<b>1.404</b>	102	96	<b>1.394</b>		
ene-04	98	1.371	1.454	0.94	1.454	1.432	(84)	(25)	<b>1.429</b>	94	98	<b>1.428</b>		
feb-04	99	1.432	1.445	0.99	1.455	1.417	(23)	(19)	<b>1.436</b>	98	99	<b>1.435</b>		
mar-04	100	1.417	1.447	0.98	1.457	1.412	(39)	(22)	<b>1.434</b>	97	98	<b>1.433</b>		
abr-04	101	1.412	1.448	0.98	1.458	1.443	(46)	(6)	<b>1.452</b>	97	100	<b>1.451</b>		
may-04	102	1.443	1.449	1.00	1.459	1.444	(16)	75	<b>1.533</b>	99	105	<b>1.538</b>		
jun-04	103	1.444	1.450	1.00	1.460	1.445	(16)	29	<b>1.489</b>	99	102	<b>1.492</b>		
jul-04	104	1.445	1.451	1.00	1.461	1.552	(16)	14	<b>1.474</b>	99	101	<b>1.477</b>		
ago-04	105	1.552	1.452	1.07	1.462	1.412	89	(145)	<b>1.317</b>	106	89	<b>1.307</b>		

sep-04	106	1.412	1.453	0,97	1.463	1.478	(51)	31	<b>1.494</b>	97	102	<b>1.496</b>
oct-04	107	1.478	1.454	1,02	1.464	1.511	13	86	<b>1.550</b>	101	106	<b>1.555</b>
nov-04	108	1.511	1.455	1,04	1.465	1.498	45	54	<b>1.519</b>	103	104	<b>1.521</b>
dic-04	109	1.498	1.456	1,03	1.467	1.383	32	(49)	<b>1.418</b>	102	96	<b>1.407</b>
ene-05	110	1.383	1.462	0,95	1.468	1.445	(84)	(25)	<b>1.442</b>	94	98	<b>1.441</b>
feb-05	111	1.445	1.474	0,98	1.469	1.430	(24)	(19)	<b>1.450</b>	98	99	<b>1.448</b>
mar-05	112	1.430	1.475	0,97	1.470	1.425	(40)	(22)	<b>1.448</b>	97	98	<b>1.446</b>
abr-05	113	1.425	1.476	0,97	1.471	1.456	(46)	(6)	<b>1.465</b>	97	100	<b>1.464</b>
may-05	114	1.456	1.477	0,99	1.472	1.516	(16)	75	<b>1.547</b>	99	105	<b>1.552</b>
jun-05	115	1.516	1.478	1,03	1.473	1.577	42	29	<b>1.502</b>	103	102	<b>1.505</b>
jul-05	116	1.577	1.479	1,07	1.474	1.566	103	14	<b>1.488</b>	107	101	<b>1.490</b>
ago-05	117	1.566	1.480	1,06	1.475	1.425	90	(145)	<b>1.330</b>	106	89	<b>1.319</b>
sep-05	118	1.425	1.481	0,96	1.476	1.491	(52)	31	<b>1.508</b>	97	102	<b>1.510</b>
oct-05	119	1.491	1.482	1,01	1.478	1.525	13	86	<b>1.563</b>	101	106	<b>1.569</b>
nov-05	120	1.525	1.483	1,03	1.479	1.512	46	54	<b>1.532</b>	103	104	<b>1.535</b>
dic-05	121	1.512	1.485	1,02	1.480	1.396	32	(49)	<b>1.431</b>	102	96	<b>1.420</b>
ene-06	122	1.396	1.486	0,94	1.481	1.458	(85)	(25)	<b>1.455</b>	94	98	<b>1.454</b>
feb-06	123	1.458	1.487	0,98	1.482	1.443	(24)	(19)	<b>1.463</b>	98	99	<b>1.461</b>
mar-06	124	1.443	1.488	0,97	1.483	1.437	(40)	(22)	<b>1.461</b>	97	98	<b>1.459</b>
abr-06	125	1.437	1.489	0,97	1.484	1.469	(47)	(6)	<b>1.478</b>	97	100	<b>1.477</b>
may-06	126	1.469	1.490	0,99	1.485	1.529	(16)	75	<b>1.560</b>	99	105	<b>1.566</b>
jun-06	127	1.529	1.491	1,03	1.486	1.592	43	29	<b>1.515</b>	103	102	<b>1.519</b>
jul-06	128	1.592	1.492	1,07	1.488	1.580	104	14	<b>1.501</b>	107	101	<b>1.504</b>
ago-06	129	1.580	1.494	1,06	1.489	1.438	91	(145)	<b>1.344</b>	106	89	<b>1.331</b>
sep-06	130	1.438	1.495	0,96	1.490	1.504	(52)	31	<b>1.521</b>	97	102	<b>1.523</b>
oct-06	131	1.504	1.496	1,01	1.491	1.538	14	86	<b>1.577</b>	101	106	<b>1.583</b>
nov-06	132	1.538	1.497	1,03	1.492	1.525	46	54	<b>1.546</b>	103	104	<b>1.548</b>
dic-06	133	1.525	1.498	1,02	1.493	1.408	32	(49)	<b>1.444</b>	102	96	<b>1.433</b>
ene-07	134	1.408	1.499	0,94	1.494	1.471	(86)	(25)	<b>1.469</b>	94	98	<b>1.467</b>
feb-07	135	1.471	1.500	0,98	1.495	1.456	(24)	(19)	<b>1.476</b>	98	99	<b>1.474</b>
mar-07	136	1.456	1.501	0,97	1.496	1.450	(40)	(22)	<b>1.474</b>	97	98	<b>1.472</b>
abr-07	137	1.450	1.502	0,97	1.497	1.482	(47)	(6)	<b>1.491</b>	97	100	<b>1.490</b>
may-07	138	1.482	1.504	0,99	1.499	1.543	(16)	75	<b>1.573</b>	99	105	<b>1.580</b>
jun-07	139	1.543	1.505	1,03	1.500	1.606	43	29	<b>1.528</b>	103	102	<b>1.532</b>
jul-07	140	1.606	1.506	1,07	1.501	1.594	105	14	<b>1.514</b>	107	101	<b>1.517</b>
ago-07	141	1.594	1.507	1,06	1.502	1.451	92	(145)	<b>1.357</b>	106	89	<b>1.343</b>
sep-07	142	1.451	1.508	0,96	1.503	1.518	(53)	31	<b>1.534</b>	97	102	<b>1.537</b>
oct-07	143	1.518	1.509	1,01	1.504	1.552	14	86	<b>1.590</b>	101	106	<b>1.598</b>
nov-07	144	1.552	1.510	1,03	1.505	1.539	47	54	<b>1.559</b>	103	104	<b>1.562</b>
dic-07	145	1.539	1.511	1,02	1.506	1.421	33	(49)	<b>1.457</b>	102	96	<b>1.445</b>
ene-08	146	1.421	1.512	0,94	1.507	1.484	(87)	(25)	<b>1.482</b>	94	98	<b>1.480</b>
feb-08	147	1.484	1.514	0,98	1.509	1.469	(24)	(19)	<b>1.489</b>	98	99	<b>1.488</b>
mar-08	148	1.469	1.515	0,97	1.510	1.463	(41)	(22)	<b>1.487</b>	97	98	<b>1.485</b>
abr-08	149	1.463	1.516	0,97	1.511	1.495	(48)	(6)	<b>1.505</b>	97	100	<b>1.504</b>
may-08	150	1.495	1.517	0,99	1.512	1.557	(16)	75	<b>1.587</b>	99	105	<b>1.594</b>
jun-08	151	1.557	1.518	1,03	1.513	1.620	44	29	<b>1.542</b>	103	102	<b>1.546</b>
jul-08	152	1.620	1.519	1,07	1.514	1.608	106	14	<b>1.528</b>	107	101	<b>1.531</b>
ago-08	153	1.608	1.520	1,06	1.515	1.463	93	(145)	<b>1.370</b>	106	89	<b>1.355</b>
sep-08	154	1.463	1.521	0,96	1.516	1.531	(53)	31	<b>1.548</b>	97	102	<b>1.550</b>
oct-08	155	1.531	1.522	1,01	1.517	1.566	14	86	<b>1.603</b>	101	106	<b>1.612</b>

nov-08	156	1.566	1.523	1,03	1.519	1.553	47	54	<b>1.572</b>	103	104	<b>1.576</b>
dic-08	157	1.553	1.525	1,02	1.520	1.433	33	(49)	<b>1.471</b>	102	96	<b>1.458</b>
ene-09	158	1.433	1.526	0,94	1.521	1.497	(87)	(25)	<b>1.495</b>	94	98	<b>1.493</b>
feb-09	159	1.497	1.527	0,98	1.522	1.482	(24)	(19)	<b>1.503</b>	98	99	<b>1.501</b>
mar-09	160	1.482	1.528	0,97	1.523	1.476	(41)	(22)	<b>1.501</b>	97	98	<b>1.498</b>
abr-09	161	1.476	1.529	0,97	1.524	1.509	(48)	(6)	<b>1.518</b>	97	100	<b>1.517</b>
may-09	162	1.509	1.529	0,99	1.525	1.570	(17)	75	<b>1.600</b>	99	105	<b>1.608</b>
jun-09	163	1.570	1.527	1,03	1.526	1.634	44	29	<b>1.555</b>	103	102	<b>1.559</b>
jul-09	164	1.634	1.525	1,07	1.527	1.622	107	14	<b>1.541</b>	107	101	<b>1.544</b>
ago-09	165	1.622	1.534	1,06	1.528	1.476	94	(145)	<b>1.383</b>	106	89	<b>1.367</b>
sep-09	166	1.476	1.537	0,96	1.530	1.545	(53)	31	<b>1.561</b>	97	102	<b>1.564</b>
oct-09	167	1.534	1.541	1,00	1.531	1.579	3	86	1.616	100	106	1.626
nov-09	168	1.534	1.546	0,99	1.532	1.566	2	54	1.585	100	104	1.590

**ENERGY (kWh)**

*CLASSICAL DECOMPOSITION TEMPLATE*

*ADDITIVE METHOD*

*MULTIPLICATIVE METHOD*

Slope of Trend Line	24
Intercept	9,516

Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value
dic-01	73	9.884	10.678	0,93	11.240	9.229	(1.356)	(1.477)	9.763	88	86	9.631
ene-02	74	9.716	11.259	0,86	11.264	10.749	(1.548)	(432)	10.832	86	96	10.795
feb-02	75	10.749	11.909	0,90	11.287	11.981	(538)	(310)	<b>10.977</b>	95	97	<b>10.998</b>
mar-02	76	11.981	12.161	0,99	11.311	10.849	670	(388)	<b>10.923</b>	106	96	<b>10.914</b>
abr-02	77	10.849	11.784	0,92	11.335	11.823	(486)	(322)	<b>11.012</b>	96	97	<b>11.028</b>
may-02	78	11.823	11.398	1,04	11.358	13.256	465	821	<b>12.179</b>	104	108	<b>12.279</b>
jun-02	79	13.256	11.172	1,19	11.382	14.005	1.874	1.263	<b>12.645</b>	116	112	<b>12.791</b>
jul-02	80	14.005	11.540	1,21	11.406	12.782	2.600	330	<b>11.735</b>	123	103	<b>11.788</b>
ago-02	81	12.782	11.519	1,11	11.429	8.610	1.353	(1.803)	<b>9.627</b>	112	83	<b>9.431</b>
sep-02	82	8.610	11.542	0,75	11.453	9.422	(2.842)	(974)	<b>10.479</b>	75	90	<b>10.337</b>
oct-02	83	9.422	11.567	0,81	11.476	10.990	(2.055)	856	<b>12.332</b>	82	107	<b>12.323</b>
nov-02	84	10.990	11.590	0,95	11.500	14.302	(510)	2.754	<b>14.254</b>	96	126	<b>14.501</b>
dic-02	85	14.302	11.614	1,23	11.524	9.462	2.778	(1.477)	<b>10.047</b>	124	86	<b>9.873</b>
ene-03	86	9.462	11.642	0,81	11.547	11.020	(2.085)	(432)	<b>11.115</b>	82	96	<b>11.067</b>
feb-03	87	11.020	11.671	0,94	11.571	12.282	(551)	(310)	<b>11.261</b>	95	97	<b>11.275</b>
mar-03	88	12.282	11.698	1,05	11.595	11.121	687	(388)	<b>11.206</b>	106	96	<b>11.188</b>
abr-03	89	11.121	11.715	0,95	11.618	12.120	(497)	(322)	<b>11.296</b>	96	97	<b>11.304</b>
may-03	90	12.120	11.735	1,03	11.642	13.588	478	821	<b>12.463</b>	104	108	<b>12.586</b>
jun-03	91	13.588	11.758	1,16	11.665	14.355	1.922	1.263	<b>12.929</b>	116	112	<b>13.110</b>
jul-03	92	14.355	11.787	1,22	11.689	13.100	2.666	330	<b>12.019</b>	123	103	<b>12.081</b>
ago-03	93	13.100	11.806	1,11	11.713	8.824	1.387	(1.803)	<b>9.910</b>	112	83	<b>9.665</b>
sep-03	94	8.824	11.829	0,75	11.736	9.656	(2.912)	(974)	<b>10.763</b>	75	90	<b>10.593</b>



oct-03	95	9.656	11.854	0,81	11.760	11.262	(2.104)	856	<b>12.615</b>	82	107	<b>12.628</b>
nov-03	96	11.262	11.877	0,95	11.784	14.655	(522)	2.754	<b>14.538</b>	96	126	<b>14.858</b>
dic-03	97	14.655	11.901	1,23	11.807	9.695	2.848	(1.477)	<b>10.330</b>	124	86	<b>10.116</b>
ene-04	98	9.695	11.929	0,81	11.831	11.290	(2.136)	(432)	<b>11.399</b>	82	96	<b>11.338</b>
feb-04	99	11.290	11.958	0,94	11.854	12.582	(564)	(310)	<b>11.544</b>	95	97	<b>11.551</b>
mar-04	100	12.582	11.985	1,05	11.878	11.394	704	(388)	<b>11.490</b>	106	96	<b>11.461</b>
abr-04	101	11.394	12.002	0,95	11.902	12.416	(508)	(322)	<b>11.579</b>	96	97	<b>11.579</b>
may-04	102	12.416	12.022	1,03	11.925	13.919	491	821	<b>12.746</b>	104	108	<b>12.892</b>
jun-04	103	13.919	12.045	1,16	11.949	14.704	1.970	1.263	<b>13.212</b>	116	112	<b>13.429</b>
jul-04	104	14.704	12.074	1,22	11.973	13.418	2.732	330	<b>12.302</b>	123	103	<b>12.374</b>
ago-04	105	13.418	12.093	1,11	11.996	9.038	1.422	(1.803)	<b>10.194</b>	112	83	<b>9.899</b>
sep-04	106	9.038	12.116	0,75	12.020	9.889	(2.981)	(974)	<b>11.046</b>	75	90	<b>10.849</b>
oct-04	107	9.889	12.141	0,81	12.043	11.534	(2.154)	856	<b>12.899</b>	82	107	<b>12.932</b>
nov-04	108	11.534	12.164	0,95	12.067	15.008	(533)	2.754	<b>14.821</b>	96	126	<b>15.216</b>
dic-04	109	15.008	12.188	1,23	12.091	9.928	2.917	(1.477)	<b>10.614</b>	124	86	<b>10.359</b>
ene-05	110	9.928	12.216	0,81	12.114	11.561	(2.187)	(432)	<b>11.682</b>	82	96	<b>11.610</b>
feb-05	111	11.561	12.245	0,94	12.138	12.882	(577)	(310)	<b>11.828</b>	95	97	<b>11.827</b>
mar-05	112	12.882	12.272	1,05	12.162	11.666	721	(388)	<b>11.773</b>	106	96	<b>11.735</b>
abr-05	113	11.666	12.290	0,95	12.185	12.712	(519)	(322)	<b>11.863</b>	96	97	<b>11.855</b>
may-05	114	12.712	12.309	1,03	12.209	14.251	504	821	<b>13.030</b>	104	108	<b>13.199</b>
jun-05	115	14.251	12.332	1,16	12.232	15.054	2.018	1.263	<b>13.496</b>	117	112	<b>13.747</b>
jul-05	116	15.054	12.361	1,22	12.256	13.737	2.798	330	<b>12.586</b>	123	103	<b>12.667</b>
ago-05	117	13.737	12.381	1,11	12.280	9.253	1.457	(1.803)	<b>10.477</b>	112	83	<b>10.133</b>
sep-05	118	9.253	12.403	0,75	12.303	10.123	(3.051)	(974)	<b>11.330</b>	75	90	<b>11.105</b>
oct-05	119	10.123	12.428	0,81	12.327	11.806	(2.204)	856	<b>13.182</b>	82	107	<b>13.237</b>
nov-05	120	11.806	12.451	0,95	12.351	15.361	(545)	2.754	<b>15.105</b>	96	126	<b>15.573</b>
dic-05	121	15.361	12.476	1,23	12.374	10.161	2.987	(1.477)	<b>10.897</b>	124	86	<b>10.602</b>
ene-06	122	10.161	12.503	0,81	12.398	11.832	(2.237)	(432)	<b>11.966</b>	82	96	<b>11.882</b>
feb-06	123	11.832	12.532	0,94	12.421	13.183	(590)	(310)	<b>12.111</b>	95	97	<b>12.103</b>
mar-06	124	13.183	12.559	1,05	12.445	11.939	738	(388)	<b>12.057</b>	106	96	<b>12.008</b>
abr-06	125	11.939	12.577	0,95	12.469	13.009	(530)	(322)	<b>12.146</b>	96	97	<b>12.131</b>
may-06	126	13.009	12.596	1,03	12.492	14.582	516	821	<b>13.313</b>	104	108	<b>13.505</b>
jun-06	127	14.582	12.619	1,16	12.516	15.403	2.067	1.263	<b>13.779</b>	117	112	<b>14.066</b>
jul-06	128	15.403	12.648	1,22	12.540	14.055	2.864	330	<b>12.869</b>	123	103	<b>12.960</b>
ago-06	129	14.055	12.668	1,11	12.563	9.467	1.492	(1.803)	<b>10.761</b>	112	83	<b>10.367</b>
sep-06	130	9.467	12.690	0,75	12.587	10.357	(3.120)	(974)	<b>11.613</b>	75	90	<b>11.361</b>
oct-06	131	10.357	12.715	0,81	12.610	12.078	(2.254)	856	<b>13.466</b>	82	107	<b>13.541</b>
nov-06	132	12.078	12.738	0,95	12.634	15.715	(556)	2.754	<b>15.388</b>	96	126	<b>15.930</b>
dic-06	133	15.715	12.763	1,23	12.658	10.393	3.057	(1.477)	<b>11.181</b>	124	86	<b>10.845</b>
ene-07	134	10.393	12.790	0,81	12.681	12.102	(2.288)	(432)	<b>12.249</b>	82	96	<b>12.153</b>
feb-07	135	12.102	12.819	0,94	12.705	13.483	(603)	(310)	<b>12.395</b>	95	97	<b>12.380</b>
mar-07	136	13.483	12.846	1,05	12.729	12.211	754	(388)	<b>12.340</b>	106	96	<b>12.282</b>
abr-07	137	12.211	12.864	0,95	12.752	13.305	(541)	(322)	<b>12.430</b>	96	97	<b>12.407</b>
may-07	138	13.305	12.883	1,03	12.776	14.914	529	821	<b>13.597</b>	104	108	<b>13.812</b>
jun-07	139	14.914	12.906	1,16	12.799	15.753	2.115	1.263	<b>14.063</b>	117	112	<b>14.384</b>
jul-07	140	15.753	12.935	1,22	12.823	14.374	2.930	330	<b>13.153</b>	123	103	<b>13.253</b>
ago-07	141	14.374	12.955	1,11	12.847	9.681	1.527	(1.803)	<b>11.044</b>	112	83	<b>10.601</b>
sep-07	142	9.681	12.977	0,75	12.870	10.590	(3.190)	(974)	<b>11.897</b>	75	90	<b>11.617</b>
oct-07	143	10.590	13.002	0,81	12.894	12.350	(2.304)	856	<b>13.749</b>	82	107	<b>13.846</b>
nov-07	144	12.350	13.025	0,95	12.918	16.068	(568)	2.754	<b>15.672</b>	96	126	<b>16.288</b>

dic-07	145	16.068	13.050	1,23	12.941	10.626	3.127	(1.477)	<b>11.464</b>	124	86	<b>11.088</b>
ene-08	146	10.626	13.077	0,81	12.965	12.373	(2.339)	(432)	<b>12.533</b>	82	96	<b>12.425</b>
feb-08	147	12.373	13.106	0,94	12.988	13.783	(616)	(310)	<b>12.678</b>	95	97	<b>12.656</b>
mar-08	148	13.783	13.133	1,05	13.012	12.484	771	(388)	<b>12.624</b>	106	96	<b>12.555</b>
abr-08	149	12.484	13.151	0,95	13.036	13.601	(552)	(322)	<b>12.713</b>	96	97	<b>12.683</b>
may-08	150	13.601	13.170	1,03	13.059	15.246	542	821	<b>13.880</b>	104	108	<b>14.118</b>
jun-08	151	15.246	13.193	1,16	13.083	16.102	2.163	1.263	<b>14.346</b>	117	112	<b>14.703</b>
jul-08	152	16.102	13.222	1,22	13.107	14.692	2.996	330	<b>13.436</b>	123	103	<b>13.546</b>
ago-08	153	14.692	13.242	1,11	13.130	9.895	1.562	(1.803)	<b>11.328</b>	112	83	<b>10.835</b>
sep-08	154	9.895	13.264	0,75	13.154	10.824	(3.259)	(974)	<b>12.180</b>	75	90	<b>11.872</b>
oct-08	155	10.824	13.289	0,81	13.177	12.622	(2.353)	856	<b>14.033</b>	82	107	<b>14.150</b>
nov-08	156	12.622	13.312	0,95	13.201	16.421	(579)	2.754	<b>15.955</b>	96	126	<b>16.645</b>
dic-08	157	16.421	13.337	1,23	13.225	10.859	3.197	(1.477)	<b>11.748</b>	124	86	<b>11.331</b>
ene-09	158	10.859	13.364	0,81	13.248	12.643	(2.389)	(432)	<b>12.816</b>	82	96	<b>12.697</b>
feb-09	159	12.643	13.394	0,94	13.272	14.084	(629)	(310)	<b>12.962</b>	95	97	<b>12.932</b>
mar-09	160	14.084	13.420	1,05	13.296	12.756	788	(388)	<b>12.907</b>	106	96	<b>12.829</b>
abr-09	161	12.756	13.438	0,95	13.319	13.898	(563)	(322)	<b>12.997</b>	96	97	<b>12.959</b>
may-09	162	13.898	13.663	1,02	13.343	15.577	555	821	<b>14.164</b>	104	108	<b>14.425</b>
jun-09	163	15.577	13.900	1,12	13.366	16.452	2.211	1.263	<b>14.630</b>	117	112	<b>15.022</b>
jul-09	164	16.452	13.688	1,20	13.390	15.010	3.062	330	<b>13.720</b>	123	103	<b>13.839</b>
ago-09	165	15.010	13.777	1,09	13.414	10.109	1.597	(1.803)	<b>11.611</b>	112	83	<b>11.069</b>
sep-09	166	10.109	13.662	0,74	13.437	11.058	(3.329)	(974)	<b>12.464</b>	75	90	<b>12.128</b>

● Alimentador A7

DEMAND (kVA)

CLASSICAL DECOMPOSITION TEMPLATE

ADDITIVE METHOD

MULTIPLICATIVE METHOD

Slope of Trend Line	1
Intercept	1.115

Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value (Tt)	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value (Ft)
dic-01	73	1.144	1.120	1,00	1.171	1.213	(47)	(0)	1.171	96	100	1.171
ene-02	74	1.197	1.122	1,05	1.172	1.141	5	(28)	1.143	100	98	1.143
feb-02	75	1.141	1.125	1,01	1.172	1.049	(32)	(34)	<b>1.138</b>	97	97	<b>1.136</b>
mar-02	76	1.049	1.146	0,92	1.173	949	(124)	(139)	<b>1.034</b>	89	88	<b>1.029</b>
abr-02	77	949	1.142	0,83	1.174	1.200	(225)	17	<b>1.191</b>	81	101	<b>1.191</b>
may-02	78	1.200	1.146	1,05	1.175	1.262	25	71	<b>1.245</b>	102	106	<b>1.247</b>
jun-02	79	1.262	1.155	1,09	1.176	1.246	86	61	<b>1.236</b>	107	105	<b>1.238</b>
jul-02	80	1.246	1.168	1,07	1.176	1.222	70	37	<b>1.213</b>	106	103	<b>1.214</b>
ago-02	81	1.222	1.172	1,04	1.177	1.082	45	(96)	<b>1.081</b>	104	92	<b>1.080</b>
sep-02	82	1.082	1.172	0,92	1.178	1.172	(96)	1	<b>1.179</b>	92	100	<b>1.179</b>

oct-02	83	1.172	1.173	1,00	1.179	1.238	(6)	52	<b>1.231</b>	99	105	<b>1.233</b>
nov-02	84	1.238	1.174	1,06	1.179	1.275	59	65	<b>1.244</b>	105	106	<b>1.246</b>
dic-02	85	1.275	1.174	1,09	1.180	1.222	95	(0)	<b>1.180</b>	108	100	<b>1.181</b>
ene-03	86	1.222	1.175	1,04	1.181	1.150	41	(28)	<b>1.153</b>	104	98	<b>1.152</b>
feb-03	87	1.150	1.176	0,98	1.182	1.057	(32)	(34)	<b>1.147</b>	97	97	<b>1.145</b>
mar-03	88	1.057	1.177	0,90	1.182	957	(125)	(139)	<b>1.043</b>	89	88	<b>1.037</b>
abr-03	89	957	1.178	0,81	1.183	1.209	(226)	17	<b>1.200</b>	81	101	<b>1.200</b>
may-03	90	1.209	1.178	1,03	1.184	1.272	25	71	<b>1.255</b>	102	106	<b>1.257</b>
jun-03	91	1.272	1.179	1,08	1.185	1.256	87	61	<b>1.246</b>	107	105	<b>1.248</b>
jul-03	92	1.256	1.180	1,06	1.186	1.232	71	37	<b>1.222</b>	106	103	<b>1.224</b>
ago-03	93	1.232	1.181	1,04	1.186	1.090	45	(96)	<b>1.090</b>	104	92	<b>1.088</b>
sep-03	94	1.090	1.181	0,92	1.187	1.182	(97)	1	<b>1.188</b>	92	100	<b>1.188</b>
oct-03	95	1.182	1.182	1,00	1.188	1.248	(6)	52	<b>1.240</b>	99	105	<b>1.240</b>
nov-03	96	1.248	1.183	1,06	1.189	1.285	60	65	<b>1.253</b>	105	106	<b>1.256</b>
dic-03	97	1.285	1.184	1,09	1.189	1.232	95	(0)	<b>1.189</b>	108	100	<b>1.190</b>
ene-04	98	1.232	1.184	1,04	1.190	1.159	42	(28)	<b>1.162</b>	104	98	<b>1.161</b>
feb-04	99	1.159	1.185	0,98	1.191	1.065	(32)	(34)	<b>1.157</b>	97	97	<b>1.154</b>
mar-04	100	1.065	1.186	0,90	1.192	964	(126)	(139)	<b>1.053</b>	89	88	<b>1.045</b>
abr-04	101	964	1.187	0,81	1.192	1.219	(228)	17	<b>1.209</b>	81	101	<b>1.210</b>
may-04	102	1.219	1.187	1,03	1.193	1.282	25	71	<b>1.264</b>	102	106	<b>1.267</b>
jun-04	103	1.282	1.188	1,08	1.194	1.266	88	61	<b>1.255</b>	107	105	<b>1.258</b>
jul-04	104	1.266	1.189	1,06	1.195	1.241	71	37	<b>1.231</b>	106	103	<b>1.233</b>
ago-04	105	1.241	1.190	1,04	1.196	1.099	46	(96)	<b>1.100</b>	104	92	<b>1.097</b>
sep-04	106	1.099	1.191	0,92	1.196	1.191	(98)	1	<b>1.197</b>	92	100	<b>1.197</b>
oct-04	107	1.191	1.191	1,00	1.197	1.258	(6)	52	<b>1.249</b>	99	105	<b>1.252</b>
nov-04	108	1.258	1.192	1,06	1.198	1.295	60	65	<b>1.263</b>	105	106	<b>1.265</b>
dic-04	109	1.295	1.193	1,09	1.199	1.241	96	(0)	<b>1.198</b>	108	100	<b>1.199</b>
ene-05	110	1.241	1.194	1,04	1.199	1.168	42	(28)	<b>1.171</b>	104	98	<b>1.170</b>
feb-05	111	1.168	1.194	0,98	1.200	1.074	(33)	(34)	<b>1.166</b>	97	97	<b>1.163</b>
mar-05	112	1.074	1.195	0,90	1.201	972	(127)	(139)	<b>1.062</b>	89	88	<b>1.053</b>
abr-05	113	972	1.196	0,81	1.202	1.228	(230)	17	<b>1.219</b>	81	101	<b>1.219</b>
may-05	114	1.228	1.197	1,03	1.202	1.292	26	71	<b>1.273</b>	102	106	<b>1.276</b>
jun-05	115	1.292	1.198	1,08	1.203	1.276	88	61	<b>1.264</b>	107	105	<b>1.267</b>
jul-05	116	1.276	1.198	1,06	1.204	1.251	72	37	<b>1.241</b>	106	103	<b>1.243</b>
ago-05	117	1.251	1.199	1,04	1.205	1.107	46	(96)	<b>1.109</b>	104	92	<b>1.105</b>
sep-05	118	1.107	1.200	0,92	1.206	1.200	(98)	1	<b>1.206</b>	92	100	<b>1.207</b>
oct-05	119	1.200	1.201	1,00	1.206	1.268	(6)	52	<b>1.259</b>	99	105	<b>1.262</b>
nov-05	120	1.268	1.201	1,06	1.207	1.305	60	65	<b>1.272</b>	105	106	<b>1.275</b>
dic-05	121	1.305	1.202	1,09	1.208	1.251	97	(0)	<b>1.208</b>	108	100	<b>1.208</b>
ene-06	122	1.251	1.203	1,04	1.209	1.177	42	(28)	<b>1.180</b>	104	98	<b>1.179</b>
feb-06	123	1.177	1.204	0,98	1.209	1.082	(33)	(34)	<b>1.175</b>	97	97	<b>1.172</b>
mar-06	124	1.082	1.204	0,90	1.210	979	(128)	(139)	<b>1.071</b>	89	88	<b>1.061</b>
abr-06	125	979	1.205	0,81	1.211	1.237	(232)	17	<b>1.228</b>	81	101	<b>1.229</b>
may-06	126	1.237	1.206	1,03	1.212	1.301	26	71	<b>1.282</b>	102	106	<b>1.286</b>
jun-06	127	1.301	1.207	1,08	1.212	1.286	89	61	<b>1.273</b>	107	105	<b>1.277</b>
jul-06	128	1.286	1.208	1,06	1.213	1.260	72	37	<b>1.250</b>	106	103	<b>1.252</b>
ago-06	129	1.260	1.208	1,04	1.214	1.116	46	(96)	<b>1.118</b>	104	92	<b>1.113</b>
sep-06	130	1.116	1.209	0,92	1.215	1.209	(99)	1	<b>1.216</b>	92	100	<b>1.216</b>
oct-06	131	1.209	1.210	1,00	1.216	1.277	(6)	52	<b>1.268</b>	99	105	<b>1.271</b>
nov-06	132	1.277	1.210	1,06	1.216	1.315	61	65	<b>1.281</b>	105	106	<b>1.285</b>

dic-06	133	1.315	1.211	1,09	1.217	1.261	98	(0)	<b>1.217</b>	108	100	<b>1.218</b>
ene-07	134	1.261	1.212	1,04	1.218	1.186	43	(28)	<b>1.190</b>	104	98	<b>1.188</b>
feb-07	135	1.186	1.213	0,98	1.219	1.090	(33)	(34)	<b>1.184</b>	97	97	<b>1.181</b>
mar-07	136	1.090	1.214	0,90	1.219	987	(129)	(139)	<b>1.080</b>	89	88	<b>1.069</b>
abr-07	137	987	1.214	0,81	1.220	1.247	(233)	17	<b>1.237</b>	81	101	<b>1.238</b>
may-07	138	1.247	1.215	1,03	1.221	1.311	26	71	<b>1.291</b>	102	106	<b>1.296</b>
jun-07	139	1.311	1.216	1,08	1.222	1.295	90	61	<b>1.283</b>	107	105	<b>1.287</b>
jul-07	140	1.295	1.217	1,06	1.223	1.270	73	37	<b>1.259</b>	106	103	<b>1.262</b>
ago-07	141	1.270	1.218	1,04	1.223	1.124	47	(96)	<b>1.127</b>	104	92	<b>1.122</b>
sep-07	142	1.124	1.218	0,92	1.224	1.218	(100)	1	<b>1.225</b>	92	100	<b>1.225</b>
oct-07	143	1.218	1.219	1,00	1.225	1.287	(6)	52	<b>1.277</b>	99	105	<b>1.281</b>
nov-07	144	1.287	1.220	1,06	1.226	1.325	61	65	<b>1.290</b>	105	106	<b>1.295</b>
dic-07	145	1.325	1.217	1,09	1.226	1.270	98	(0)	<b>1.226</b>	108	100	<b>1.227</b>
ene-08	146	1.270	1.216	1,04	1.227	1.195	43	(28)	<b>1.199</b>	104	98	<b>1.197</b>
feb-08	147	1.195	1.213	0,98	1.228	1.098	(33)	(34)	<b>1.194</b>	97	97	<b>1.190</b>
mar-08	148	1.098	1.214	0,91	1.229	994	(130)	(139)	<b>1.090</b>	89	88	<b>1.077</b>
abr-08	149	994	1.214	0,82	1.229	1.256	(235)	17	<b>1.246</b>	81	101	<b>1.247</b>
may-08	150	1.256	1.215	1,03	1.230	1.257	26	71	<b>1.301</b>	102	106	<b>1.306</b>
jun-08	151	1.257	1.216	1,03	1.231	1.258	26	61	<b>1.292</b>	102	105	<b>1.297</b>
jul-08	152	1.258	1.217	1,03	1.232	1.280	26	37	<b>1.268</b>	102	103	<b>1.271</b>
ago-08	153	1.280	1.217	1,05	1.233	1.133	47	(96)	<b>1.136</b>	104	92	<b>1.130</b>
sep-08	154	1.133	1.218	0,93	1.233	1.228	(101)	1	<b>1.234</b>	92	100	<b>1.234</b>
oct-08	155	1.228	1.219	1,01	1.234	1.297	(6)	52	<b>1.286</b>	99	105	<b>1.291</b>
nov-08	156	1.297	1.216	1,07	1.235	1.335	62	65	<b>1.300</b>	105	106	<b>1.304</b>
dic-08	157	1.335	1.220	1,09	1.236	1.280	99	(0)	<b>1.235</b>	108	100	<b>1.236</b>
ene-09	158	1.280	1.227	1,04	1.236	1.204	43	(28)	<b>1.208</b>	104	98	<b>1.206</b>
feb-09	159	1.204	1.231	0,98	1.237	1.107	(34)	(34)	<b>1.203</b>	97	97	<b>1.199</b>
mar-09	160	1.107	1.232	0,90	1.238	1.002	(131)	(139)	<b>1.099</b>	89	88	<b>1.086</b>
abr-09	161	1.002	1.233	0,81	1.239	1.266	(237)	17	<b>1.255</b>	81	101	<b>1.257</b>
may-09	162	1.266	1.219	1,04	1.239	1.331	26	71	<b>1.310</b>	102	106	<b>1.316</b>
jun-09	163	1.331	1.190	1,12	1.240	1.315	91	61	<b>1.301</b>	107	105	<b>1.306</b>
jul-09	164	1.315	1.157	1,14	1.241	1.289	74	37	<b>1.278</b>	106	103	<b>1.281</b>
ago-09	165	1.289	1.140	1,13	1.242	1.141	48	(96)	<b>1.146</b>	104	92	<b>1.139</b>
sep-09	166	1.141	1.115	1,02	1.243	1.237	(101)	1	<b>1.243</b>	92	100	<b>1.244</b>
oct-09	167	1.066	1.102	0,97	1.243	1.306	(177)	52	<b>1.296</b>	86	105	<b>1.300</b>
nov-09	168	943	1.106	0,85	1.244	1.345	(301)	65	<b>1.309</b>	76	106	<b>1.314</b>

**ENERGY (kWh)**

*CLASSICAL DECOMPOSITION TEMPLATE*

*ADDITIVE METHOD*

*MULTIPLICATIVE METHOD*

Slope of Trend Line	(24)
Intercept	10.944

<i>Date Period (Mmm-AA)</i>	<i>Time Period (t)</i>	<i>kWh Actual Value (At)</i>	<i>Centered Moving Average (CMA-5)</i>	<i>Seasonal Indices</i>	<i>Trend Adjusted Forecast Value</i>	<i>Trend &amp; Seasonal Adjusted Forecast Value</i>	<i>Detrend Adjusted Forecast Value</i>	<i>Detrend Seasonal Factors</i>	<i>Additive Forecast Value (Ft)</i>	<i>Detrend Adjusted Forecast Value</i>	<i>Detrend Seasonal Factors</i>	<i>Multiplicative Forecast Value</i>
dic-01	73	6.194	9.159	0,77	9.198	8.745	(2.190)	(1.051)	8.147	76	89	8.220
ene-02	74	10.142	8.721	1,26	9.174	6.497	1.782	(1.073)	8.101	119	90	8.213
feb-02	75	6.497	8.774	0,74	9.150	6.511	(2.653)	(2.372)	<b>6.778</b>	71	75	<b>6.894</b>
mar-02	76	6.511	8.960	0,73	9.126	6.185	(2.615)	(1.343)	<b>7.784</b>	71	87	<b>7.916</b>
abr-02	77	6.185	8.721	0,71	9.102	7.112	(2.917)	(1.114)	<b>7.988</b>	68	89	<b>8.067</b>
may-02	78	7.112	8.532	0,83	9.078	8.331	(1.967)	550	<b>9.628</b>	78	105	<b>9.537</b>
jun-02	79	8.331	8.626	0,97	9.054	11.675	(723)	2.491	<b>11.545</b>	92	125	<b>11.311</b>
jul-02	80	11.675	9.090	1,28	9.030	11.202	2.645	1.286	<b>10.317</b>	129	113	<b>10.215</b>
ago-02	81	11.202	8.883	1,26	9.007	7.974	2.196	(1.837)	<b>7.170</b>	124	82	<b>7.388</b>
sep-02	82	7.974	8.866	0,90	8.983	8.442	(1.008)	(73)	<b>8.910</b>	89	99	<b>8.919</b>
oct-02	83	8.442	8.849	0,95	8.959	11.612	(517)	2.189	<b>11.148</b>	94	122	<b>10.936</b>
nov-02	84	11.612	8.833	1,31	8.935	12.581	2.677	2.700	<b>11.635</b>	130	127	<b>11.387</b>
dic-02	85	12.581	8.814	1,43	8.911	8.473	3.670	(1.051)	<b>7.860</b>	141	89	<b>7.964</b>
ene-03	86	8.473	8.792	0,96	8.887	6.294	(414)	(1.073)	<b>7.814</b>	95	90	<b>7.956</b>
feb-03	87	6.294	8.761	0,72	8.863	6.306	(2.569)	(2.372)	<b>6.491</b>	71	75	<b>6.678</b>
mar-03	88	6.306	8.732	0,72	8.839	5.991	(2.533)	(1.343)	<b>7.497</b>	71	87	<b>7.667</b>
abr-03	89	5.991	8.711	0,69	8.815	6.888	(2.824)	(1.114)	<b>7.701</b>	68	89	<b>7.813</b>
may-03	90	6.888	8.688	0,79	8.791	8.068	(1.903)	550	<b>9.341</b>	78	105	<b>9.235</b>
jun-03	91	8.068	8.657	0,93	8.767	11.306	(699)	2.491	<b>11.258</b>	92	125	<b>10.952</b>
jul-03	92	11.306	8.624	1,31	8.743	10.847	2.563	1.286	<b>10.030</b>	129	113	<b>9.890</b>
ago-03	93	10.847	8.601	1,26	8.719	7.721	2.128	(1.837)	<b>6.882</b>	124	82	<b>7.153</b>
sep-03	94	7.721	8.584	0,90	8.696	8.173	(975)	(73)	<b>8.623</b>	89	99	<b>8.634</b>
oct-03	95	8.173	8.567	0,95	8.672	11.241	(499)	2.189	<b>10.861</b>	94	122	<b>10.586</b>
nov-03	96	11.241	8.551	1,31	8.648	12.177	2.593	2.700	<b>11.348</b>	130	127	<b>11.021</b>
dic-03	97	12.177	8.532	1,43	8.624	8.200	3.554	(1.051)	<b>7.573</b>	141	89	<b>7.707</b>
ene-04	98	8.200	8.510	0,96	8.600	6.091	(400)	(1.073)	<b>7.527</b>	95	90	<b>7.699</b>
feb-04	99	6.091	8.480	0,72	8.576	6.102	(2.485)	(2.372)	<b>6.204</b>	71	75	<b>6.461</b>
mar-04	100	6.102	8.450	0,72	8.552	5.797	(2.450)	(1.343)	<b>7.209</b>	71	87	<b>7.418</b>
abr-04	101	5.797	8.429	0,69	8.528	6.664	(2.731)	(1.114)	<b>7.414</b>	68	89	<b>7.558</b>
may-04	102	6.664	8.406	0,79	8.504	7.805	(1.840)	550	<b>9.054</b>	78	105	<b>8.933</b>
jun-04	103	7.805	8.375	0,93	8.480	10.937	(675)	2.491	<b>10.971</b>	92	125	<b>10.594</b>
jul-04	104	10.937	8.342	1,31	8.456	10.492	2.480	1.286	<b>9.743</b>	129	113	<b>9.565</b>
ago-04	105	10.492	8.319	1,26	8.432	7.467	2.059	(1.837)	<b>6.595</b>	124	82	<b>6.917</b>
sep-04	106	7.467	8.302	0,90	8.408	7.904	(941)	(73)	<b>8.336</b>	89	99	<b>8.349</b>
oct-04	107	7.904	8.285	0,95	8.385	10.870	(481)	2.189	<b>10.573</b>	94	122	<b>10.235</b>
nov-04	108	10.870	8.269	1,31	8.361	11.774	2.509	2.700	<b>11.060</b>	130	127	<b>10.655</b>

dic-04	109	11.774	8.250	1,43	8.337	7.927	3.438	(1.051)	<b>7.285</b>	141	89	<b>7.451</b>
ene-05	110	7.927	8.228	0,96	8.313	5.887	(386)	(1.073)	<b>7.240</b>	95	90	<b>7.442</b>
feb-05	111	5.887	8.198	0,72	8.289	5.897	(2.401)	(2.372)	<b>5.917</b>	71	75	<b>6.245</b>
mar-05	112	5.897	8.168	0,72	8.265	5.603	(2.368)	(1.343)	<b>6.922</b>	71	87	<b>7.169</b>
abr-05	113	5.603	8.147	0,69	8.241	6.440	(2.638)	(1.114)	<b>7.127</b>	68	89	<b>7.304</b>
may-05	114	6.440	8.124	0,79	8.217	7.543	(1.777)	550	<b>8.767</b>	78	105	<b>8.632</b>
jun-05	115	7.543	8.094	0,93	8.193	10.568	(650)	2.491	<b>10.684</b>	92	125	<b>10.235</b>
jul-05	116	10.568	8.060	1,31	8.169	10.137	2.398	1.286	<b>9.456</b>	129	113	<b>9.240</b>
ago-05	117	10.137	8.037	1,26	8.145	7.214	1.991	(1.837)	<b>6.308</b>	124	82	<b>6.682</b>
sep-05	118	7.214	8.020	0,90	8.121	7.635	(907)	(73)	<b>8.049</b>	89	99	<b>8.064</b>
oct-05	119	7.635	8.003	0,95	8.097	10.499	(463)	2.189	<b>10.286</b>	94	122	<b>9.885</b>
nov-05	120	10.499	7.987	1,31	8.074	11.371	2.425	2.700	<b>10.773</b>	130	127	<b>10.289</b>
dic-05	121	11.371	7.968	1,43	8.050	7.654	3.321	(1.051)	<b>6.998</b>	141	89	<b>7.194</b>
ene-06	122	7.654	7.947	0,96	8.026	5.684	(372)	(1.073)	<b>6.953</b>	95	90	<b>7.185</b>
feb-06	123	5.684	7.916	0,72	8.002	5.692	(2.318)	(2.372)	<b>5.630</b>	71	75	<b>6.029</b>
mar-06	124	5.692	7.886	0,72	7.978	5.409	(2.286)	(1.343)	<b>6.635</b>	71	87	<b>6.920</b>
abr-06	125	5.409	7.865	0,69	7.954	6.217	(2.545)	(1.114)	<b>6.840</b>	68	89	<b>7.049</b>
may-06	126	6.217	7.843	0,79	7.930	7.280	(1.713)	550	<b>8.480</b>	78	105	<b>8.330</b>
jun-06	127	7.280	7.812	0,93	7.906	10.198	(626)	2.491	<b>10.397</b>	92	125	<b>9.876</b>
jul-06	128	10.198	7.778	1,31	7.882	9.781	2.316	1.286	<b>9.168</b>	129	113	<b>8.916</b>
ago-06	129	9.781	7.755	1,26	7.858	6.960	1.923	(1.837)	<b>6.021</b>	124	82	<b>6.446</b>
sep-06	130	6.960	7.738	0,90	7.834	7.366	(874)	(73)	<b>7.762</b>	89	99	<b>7.779</b>
oct-06	131	7.366	7.721	0,95	7.810	10.128	(445)	2.189	<b>9.999</b>	94	122	<b>9.534</b>
nov-06	132	10.128	7.705	1,31	7.786	10.968	2.341	2.700	<b>10.486</b>	130	127	<b>9.924</b>
dic-06	133	10.968	7.686	1,43	7.763	7.381	3.205	(1.051)	<b>6.711</b>	141	89	<b>6.938</b>
ene-07	134	7.381	7.665	0,96	7.739	5.481	(358)	(1.073)	<b>6.665</b>	95	90	<b>6.928</b>
feb-07	135	5.481	7.634	0,72	7.715	5.487	(2.234)	(2.372)	<b>5.343</b>	71	75	<b>5.812</b>
mar-07	136	5.487	7.604	0,72	7.691	5.215	(2.204)	(1.343)	<b>6.348</b>	71	87	<b>6.671</b>
abr-07	137	5.215	7.583	0,69	7.667	5.993	(2.452)	(1.114)	<b>6.553</b>	68	89	<b>6.795</b>
may-07	138	5.993	7.561	0,79	7.643	7.017	(1.650)	550	<b>8.193</b>	78	105	<b>8.029</b>
jun-07	139	7.017	7.530	0,93	7.619	9.829	(602)	2.491	<b>10.110</b>	92	125	<b>9.518</b>
jul-07	140	9.829	7.496	1,31	7.595	9.426	2.234	1.286	<b>8.881</b>	129	113	<b>8.591</b>
ago-07	141	9.426	7.473	1,26	7.571	6.707	1.855	(1.837)	<b>5.734</b>	125	82	<b>6.211</b>
sep-07	142	6.707	7.456	0,90	7.547	7.096	(840)	(73)	<b>7.475</b>	89	99	<b>7.494</b>
oct-07	143	7.096	7.439	0,95	7.523	9.757	(427)	2.189	<b>9.712</b>	94	122	<b>9.184</b>
nov-07	144	9.757	7.423	1,31	7.499	10.565	2.257	2.700	<b>10.199</b>	130	127	<b>9.558</b>
dic-07	145	10.565	7.405	1,43	7.475	7.108	3.089	(1.051)	<b>6.424</b>	141	89	<b>6.681</b>
ene-08	146	7.108	7.383	0,96	7.452	5.277	(344)	(1.073)	<b>6.378</b>	95	90	<b>6.671</b>
feb-08	147	5.277	7.352	0,72	7.428	5.282	(2.150)	(2.372)	<b>5.056</b>	71	75	<b>5.596</b>
mar-08	148	5.282	7.322	0,72	7.404	5.021	(2.121)	(1.343)	<b>6.061</b>	71	87	<b>6.422</b>
abr-08	149	5.021	7.301	0,69	7.380	5.769	(2.359)	(1.114)	<b>6.266</b>	68	89	<b>6.541</b>
may-08	150	5.769	7.279	0,79	7.356	6.754	(1.586)	550	<b>7.906</b>	78	105	<b>7.727</b>
jun-08	151	6.754	7.248	0,93	7.332	9.460	(577)	2.491	<b>9.823</b>	92	125	<b>9.159</b>
jul-08	152	9.460	7.214	1,31	7.308	9.071	2.152	1.286	<b>8.594</b>	129	113	<b>8.266</b>
ago-08	153	9.071	7.192	1,26	7.284	6.453	1.787	(1.837)	<b>5.447</b>	125	82	<b>5.975</b>
sep-08	154	6.453	7.175	0,90	7.260	6.827	(807)	(73)	<b>7.188</b>	89	99	<b>7.209</b>
oct-08	155	6.827	7.157	0,95	7.236	9.385	(409)	2.189	<b>9.425</b>	94	122	<b>8.833</b>
nov-08	156	9.385	7.141	1,31	7.212	10.162	2.173	2.700	<b>9.912</b>	130	127	<b>9.192</b>
dic-08	157	10.162	7.123	1,43	7.188	6.835	2.973	(1.051)	<b>6.137</b>	141	89	<b>6.424</b>
ene-09	158	6.835	7.101	0,96	7.164	5.074	(330)	(1.073)	<b>6.091</b>	95	90	<b>6.414</b>

feb-09	159	5.074	7.070	0,72	7.140	5.077	(2.066)	(2.372)	<b>4.769</b>	71	75	<b>5.380</b>
mar-09	160	5.077	7.040	0,72	7.117	4.827	(2.039)	(1.343)	<b>5.774</b>	71	87	<b>6.173</b>
abr-09	161	4.827	7.019	0,69	7.093	5.546	(2.266)	(1.114)	<b>5.979</b>	68	89	<b>6.286</b>
may-09	162	5.546	7.070	0,78	7.069	6.492	(1.523)	550	<b>7.619</b>	78	105	<b>7.426</b>
jun-09	163	6.492	7.028	0,92	7.045	9.091	(553)	2.491	<b>9.536</b>	92	125	<b>8.801</b>
jul-09	164	9.091	6.878	1,32	7.021	8.716	2.070	1.286	<b>8.307</b>	129	113	<b>7.942</b>
ago-09	165	8.716	7.005	1,24	6.997	6.200	1.719	(1.837)	<b>5.160</b>	125	82	<b>5.740</b>
sep-09	166	6.200	7.253	0,85	6.973	6.558	(773)	(73)	<b>6.900</b>	89	99	<b>6.924</b>
oct-09	167	7.432	7.540	0,99	6.949	9.014	483	2.189	9.138	107	122	8.483
nov-09	168	8.880	7.944	1,12	6.925	9.758	1.955	2.700	9.625	128	127	8.826

- Alimentador A68

**DEMAND (kVA)**

CLASSICAL DECOMPOSITION TEMPLATE						ADDITIVE METHOD				MULTIPLICATIVE METHOD		
Slope of Trendline		0										
Intercept		6.910										
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value (Ft)
dic-01	73	7.462	6.766	1	6.933	7.088	530	46	6.978	108	101	6.978
ene-02	74	6.400	6.753	1	6.933	6.767	(533)	(48)	6.885	92	99	6.885
feb-02	75	6.767	6.800	1	6.933	6.428	(166)	(321)	<b>6.612</b>	98	95	<b>6.612</b>
mar-02	76	6.428	6.870	1	6.934	6.854	(506)	(223)	<b>6.711</b>	93	97	<b>6.710</b>
abr-02	77	6.854	6.899	1	6.934	6.950	(80)	149	<b>7.083</b>	99	102	<b>7.083</b>
may-02	78	6.950	6.872	1	6.934	7.166	16	646	<b>7.580</b>	100	109	<b>7.581</b>
jun-02	79	7.166	6.844	1	6.934	7.389	231	783	<b>7.718</b>	103	111	<b>7.719</b>
jul-02	80	7.389	6.824	1	6.935	7.168	454	320	<b>7.254</b>	107	105	<b>7.255</b>
ago-02	81	7.168	6.882	1	6.935	6.113	233	(646)	<b>6.289</b>	103	91	<b>6.288</b>
sep-02	82	6.113	6.882	1	6.935	6.300	(822)	(487)	<b>6.448</b>	88	93	<b>6.448</b>
oct-02	83	6.300	6.883	1	6.936	7.135	(635)	241	<b>7.176</b>	91	79	<b>5.447</b>
nov-02	84	7.135	6.883	1	6.936	7.224	199	434	<b>7.370</b>	103	106	<b>7.371</b>
dic-02	85	7.224	6.883	1	6.936	7.091	288	46	<b>6.982</b>	104	101	<b>6.982</b>
ene-03	86	7.091	6.884	1	6.937	6.771	155	(48)	<b>6.889</b>	102	99	<b>6.888</b>
feb-03	87	6.771	6.884	1	6.937	6.431	(166)	(321)	<b>6.616</b>	98	95	<b>6.615</b>
mar-03	88	6.431	6.884	1	6.937	6.858	(506)	(223)	<b>6.715</b>	93	97	<b>6.714</b>
abr-03	89	6.858	6.885	1	6.938	6.953	(80)	149	<b>7.086</b>	99	102	<b>7.086</b>
may-03	90	6.953	6.885	1	6.938	7.170	16	646	<b>7.583</b>	100	109	<b>7.585</b>
jun-03	91	7.170	6.885	1	6.938	7.393	231	783	<b>7.721</b>	103	111	<b>7.723</b>
jul-03	92	7.393	6.885	1	6.938	7.171	454	320	<b>7.258</b>	107	105	<b>7.259</b>
ago-03	93	7.171	6.886	1	6.939	6.116	233	(646)	<b>6.292</b>	103	91	<b>6.291</b>
sep-03	94	6.116	6.886	1	6.939	6.304	(823)	(487)	<b>6.452</b>	88	93	<b>6.451</b>
oct-03	95	6.304	6.886	1	6.939	7.138	(636)	241	<b>7.180</b>	91	79	<b>5.450</b>
nov-03	96	7.138	6.887	1	6.940	7.228	199	434	<b>7.374</b>	103	106	<b>7.375</b>
dic-03	97	7.228	6.887	1	6.940	7.095	288	46	<b>6.986</b>	104	101	<b>6.985</b>

ene-04	98	7.095	6.887	1	6.940	6.775	155	(48)	<b>6.892</b>	102	99	<b>6.892</b>
feb-04	99	6.775	6.888	1	6.941	6.435	(166)	(321)	<b>6.620</b>	98	95	<b>6.619</b>
mar-04	100	6.435	6.888	1	6.941	6.861	(506)	(223)	<b>6.718</b>	93	97	<b>6.717</b>
abr-04	101	6.861	6.888	1	6.941	6.957	(80)	149	<b>7.090</b>	99	102	<b>7.090</b>
may-04	102	6.957	6.888	1	6.942	7.173	16	646	<b>7.587</b>	100	109	<b>7.589</b>
jun-04	103	7.173	6.889	1	6.942	7.397	232	783	<b>7.725</b>	103	111	<b>7.727</b>
jul-04	104	7.397	6.889	1	6.942	7.175	455	320	<b>7.262</b>	107	105	<b>7.263</b>
ago-04	105	7.175	6.889	1	6.942	6.119	233	(646)	<b>6.296</b>	103	91	<b>6.294</b>
sep-04	106	6.119	6.890	1	6.943	6.307	(823)	(487)	<b>6.456</b>	88	93	<b>6.454</b>
oct-04	107	6.307	6.890	1	6.943	7.142	(636)	241	<b>7.184</b>	91	79	<b>5.453</b>
nov-04	108	7.142	6.890	1	6.943	7.232	199	434	<b>7.378</b>	103	106	<b>7.379</b>
dic-04	109	7.232	6.891	1	6.944	7.099	288	46	<b>6.989</b>	104	101	<b>6.989</b>
ene-05	110	7.099	6.891	1	6.944	6.778	155	(48)	<b>6.896</b>	102	99	<b>6.896</b>
feb-05	111	6.778	6.891	1	6.944	6.438	(166)	(321)	<b>6.624</b>	98	95	<b>6.622</b>
mar-05	112	6.438	6.892	1	6.945	6.865	(506)	(223)	<b>6.722</b>	93	97	<b>6.721</b>
abr-05	113	6.865	6.892	1	6.945	6.961	(80)	149	<b>7.094</b>	99	102	<b>7.094</b>
may-05	114	6.961	6.892	1	6.945	7.177	16	646	<b>7.591</b>	100	109	<b>7.593</b>
jun-05	115	7.177	6.892	1	6.946	7.401	232	783	<b>7.729</b>	103	111	<b>7.731</b>
jul-05	116	7.401	6.893	1	6.946	7.179	455	320	<b>7.265</b>	107	105	<b>7.267</b>
ago-05	117	7.179	6.893	1	6.946	6.123	233	(646)	<b>6.300</b>	103	91	<b>6.298</b>
sep-05	118	6.123	6.893	1	6.946	6.310	(824)	(487)	<b>6.459</b>	88	93	<b>6.458</b>
oct-05	119	6.310	6.894	1	6.947	7.146	(636)	241	<b>7.188</b>	91	79	<b>5.455</b>
nov-05	120	7.146	6.894	1	6.947	7.236	199	434	<b>7.381</b>	103	106	<b>7.383</b>
dic-05	121	7.236	6.894	1	6.947	7.103	289	46	<b>6.993</b>	104	101	<b>6.993</b>
ene-06	122	7.103	6.895	1	6.948	6.782	155	(48)	<b>6.900</b>	102	99	<b>6.899</b>
feb-06	123	6.782	6.895	1	6.948	6.442	(166)	(321)	<b>6.627</b>	98	95	<b>6.626</b>
mar-06	124	6.442	6.895	1	6.948	6.869	(507)	(223)	<b>6.726</b>	93	97	<b>6.724</b>
abr-06	125	6.869	6.896	1	6.949	6.964	(80)	149	<b>7.097</b>	99	102	<b>7.098</b>
may-06	126	6.964	6.896	1	6.949	7.181	16	646	<b>7.594</b>	100	109	<b>7.597</b>
jun-06	127	7.181	6.896	1	6.949	7.405	232	783	<b>7.733</b>	103	111	<b>7.735</b>
jul-06	128	7.405	6.896	1	6.950	7.183	455	320	<b>7.269</b>	107	105	<b>7.271</b>
ago-06	129	7.183	6.897	1	6.950	6.126	233	(646)	<b>6.303</b>	103	91	<b>6.301</b>
sep-06	130	6.126	6.897	1	6.950	6.314	(824)	(487)	<b>6.463</b>	88	93	<b>6.461</b>
oct-06	131	6.314	6.897	1	6.950	7.150	(637)	241	<b>7.191</b>	91	79	<b>5.458</b>
nov-06	132	7.150	6.898	1	6.951	7.240	199	434	<b>7.385</b>	103	106	<b>7.387</b>
dic-06	133	7.240	6.898	1	6.951	7.106	289	46	<b>6.997</b>	104	101	<b>6.997</b>
ene-07	134	7.106	6.898	1	6.951	6.785	155	(48)	<b>6.904</b>	102	99	<b>6.903</b>
feb-07	135	6.785	6.899	1	6.952	6.445	(166)	(321)	<b>6.631</b>	98	95	<b>6.629</b>
mar-07	136	6.445	6.899	1	6.952	6.872	(507)	(223)	<b>6.729</b>	93	97	<b>6.728</b>
abr-07	137	6.872	6.899	1	6.952	6.968	(80)	149	<b>7.101</b>	99	102	<b>7.102</b>
may-07	138	6.968	6.899	1	6.953	7.185	16	646	<b>7.598</b>	100	109	<b>7.601</b>
jun-07	139	7.185	6.900	1	6.953	7.409	232	783	<b>7.736</b>	103	111	<b>7.740</b>
jul-07	140	7.409	6.900	1	6.953	7.187	455	320	<b>7.273</b>	107	105	<b>7.274</b>
ago-07	141	7.187	6.900	1	6.953	6.129	233	(646)	<b>6.307</b>	103	91	<b>6.305</b>
sep-07	142	6.129	6.901	1	6.954	6.317	(825)	(487)	<b>6.467</b>	88	93	<b>6.465</b>
oct-07	143	6.317	6.901	1	6.954	7.154	(637)	241	<b>7.195</b>	91	79	<b>5.461</b>
nov-07	144	7.154	6.901	1	6.954	7.244	199	434	<b>7.389</b>	103	106	<b>7.391</b>
dic-07	145	7.244	6.902	1	6.955	7.110	289	46	<b>7.000</b>	104	101	<b>7.000</b>
ene-08	146	7.110	6.902	1	6.955	6.789	155	(48)	<b>6.907</b>	102	99	<b>6.907</b>
feb-08	147	6.789	6.902	1	6.955	6.449	(166)	(321)	<b>6.635</b>	98	95	<b>6.633</b>



mar-08	148	6.449	6.903	1	6.956	6.876	(507)	(223)	<b>6.733</b>	93	97	<b>6.731</b>
abr-08	149	6.876	6.903	1	6.956	6.972	(80)	149	<b>7.105</b>	99	102	<b>7.105</b>
may-08	150	6.972	6.903	1	6.956	7.189	16	646	<b>7.602</b>	100	109	<b>7.605</b>
jun-08	151	7.189	6.903	1	6.957	7.412	232	783	<b>7.740</b>	103	111	<b>7.744</b>
jul-08	152	7.412	6.904	1	6.957	7.191	456	320	<b>7.277</b>	107	105	<b>7.278</b>
ago-08	153	7.191	6.904	1	6.957	6.132	233	(646)	<b>6.311</b>	103	91	<b>6.308</b>
sep-08	154	6.132	6.904	1	6.957	6.320	(825)	(487)	<b>6.470</b>	88	93	<b>6.468</b>
oct-08	155	6.320	6.905	1	6.958	7.157	(637)	241	<b>7.199</b>	91	79	<b>5.464</b>
nov-08	156	7.157	6.905	1	6.958	7.247	199	434	<b>7.392</b>	103	106	<b>7.395</b>
dic-08	157	7.247	6.905	1	6.958	7.114	289	46	<b>7.004</b>	104	101	<b>7.004</b>
ene-09	158	7.114	6.906	1	6.959	6.793	155	(48)	<b>6.911</b>	102	99	<b>6.910</b>
feb-09	159	6.793	6.906	1	6.959	6.452	(167)	(321)	<b>6.638</b>	98	95	<b>6.636</b>
mar-09	160	6.452	6.906	1	6.959	6.879	(507)	(223)	<b>6.737</b>	93	97	<b>6.735</b>
abr-09	161	6.879	6.906	1	6.960	6.975	(80)	149	<b>7.109</b>	99	102	<b>7.109</b>
may-09	162	6.975	6.885	1	6.960	7.192	15	646	<b>7.606</b>	100	109	<b>7.609</b>
jun-09	163	7.192	6.805	1	6.960	7.416	232	783	<b>7.744</b>	103	111	<b>7.748</b>
jul-09	164	7.416	6.760	1	6.961	7.194	456	320	<b>7.280</b>	107	105	<b>7.282</b>
ago-09	165	7.194	6.704	1	6.961	6.136	233	(646)	<b>6.314</b>	103	91	<b>6.311</b>
sep-09	166	6.136	6.606	1	6.961	6.323	(825)	(487)	<b>6.474</b>	88	93	<b>6.471</b>
oct-09	167	6.061	6.585	1	6.961	7.161	(900)	241	<b>7.202</b>	87	79	<b>5.467</b>
nov-09	168	6.196	6.543	1	6.962	7.251	(766)	434	<b>7.396</b>	89	106	<b>7.399</b>

**ENERGY (kWh)**

*CLASSICAL DECOMPOSITION TEMPLATE*

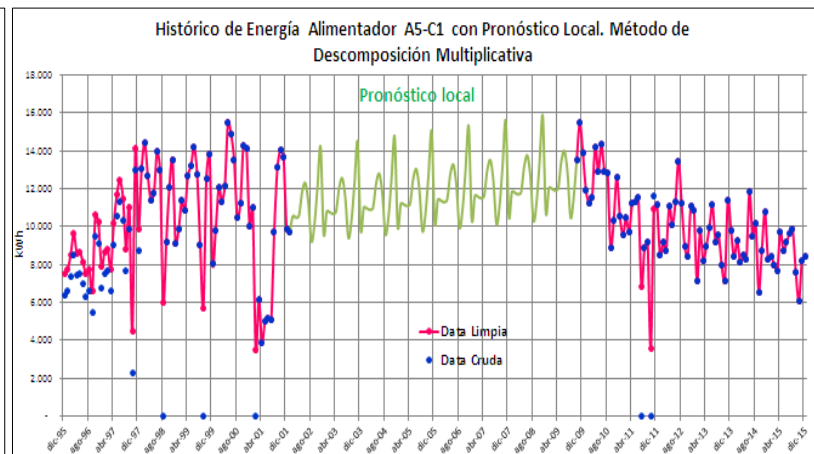
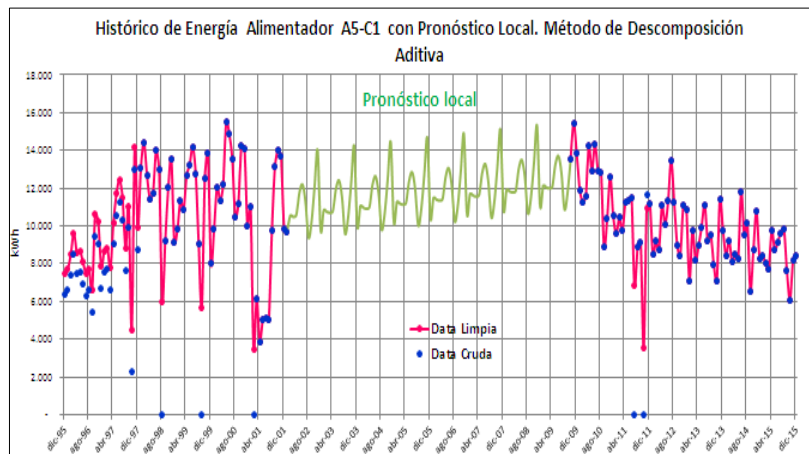
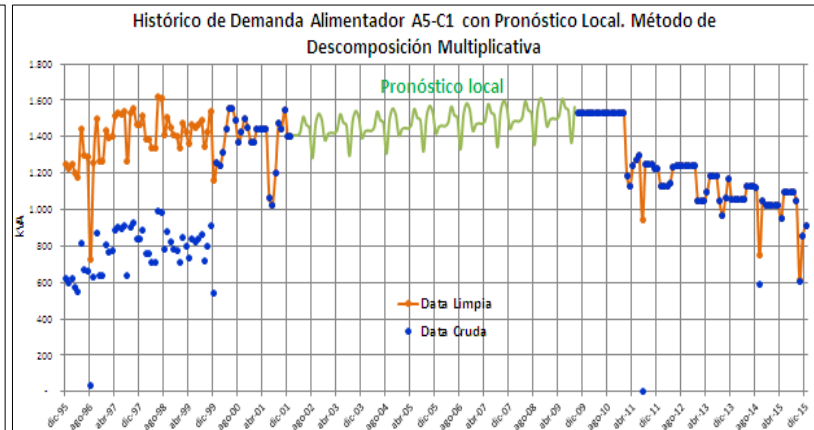
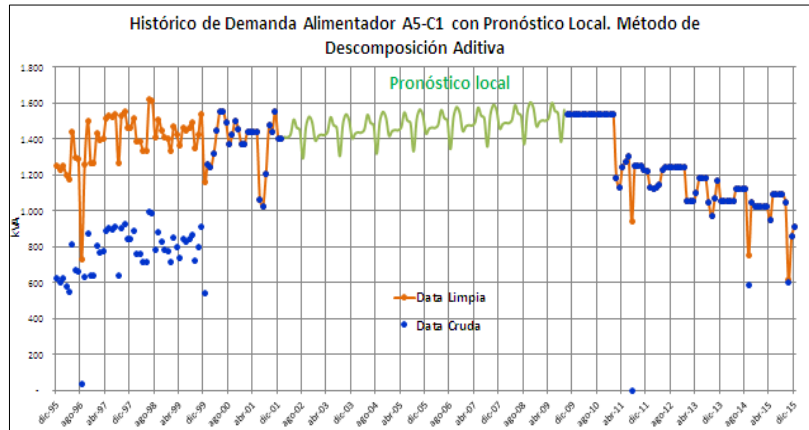
*ADDITIVE METHOD*

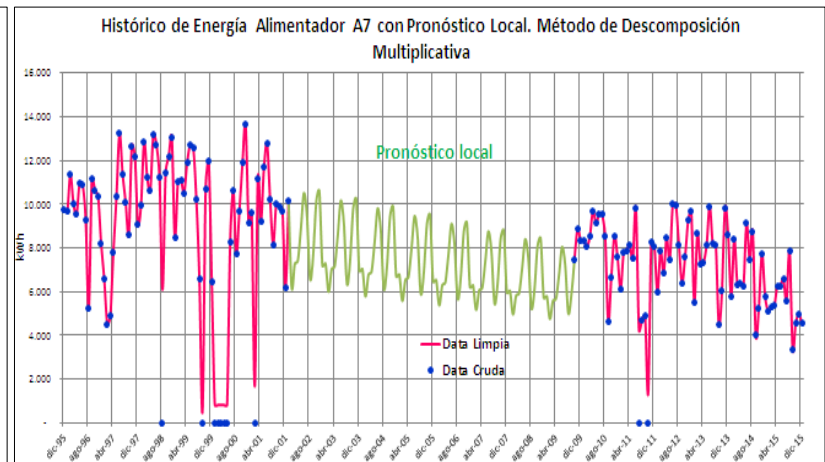
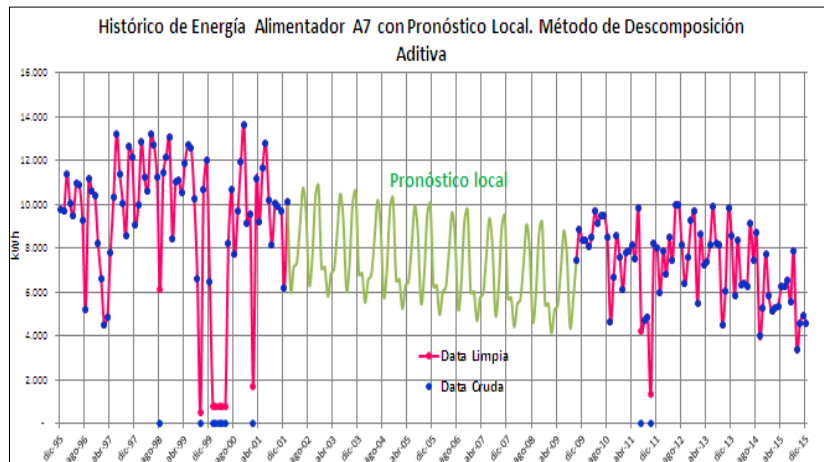
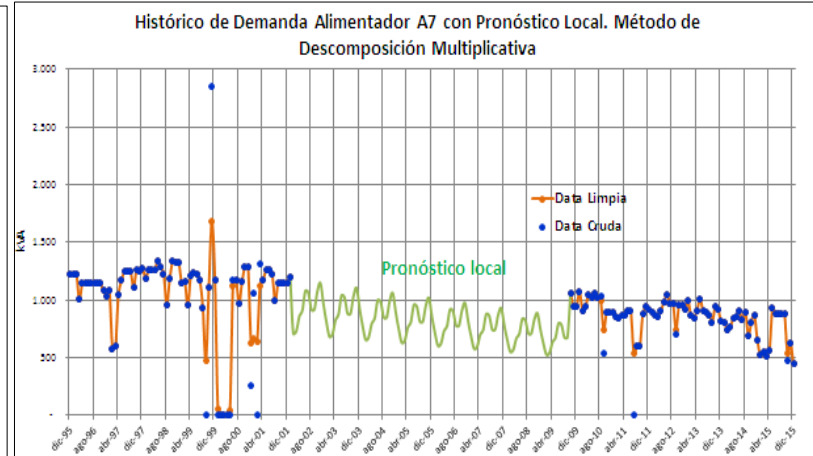
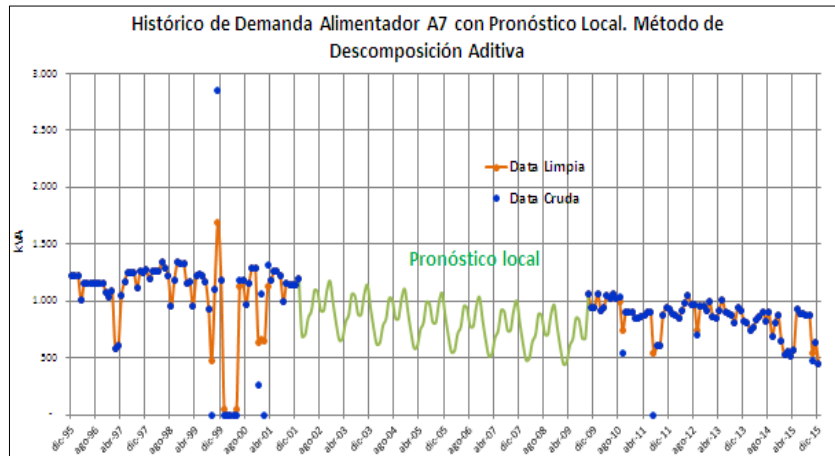
*MULTIPLICATIVE METHOD*

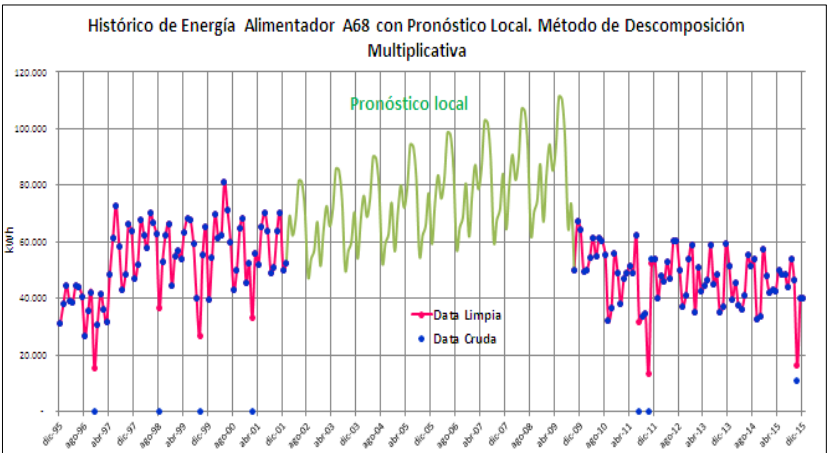
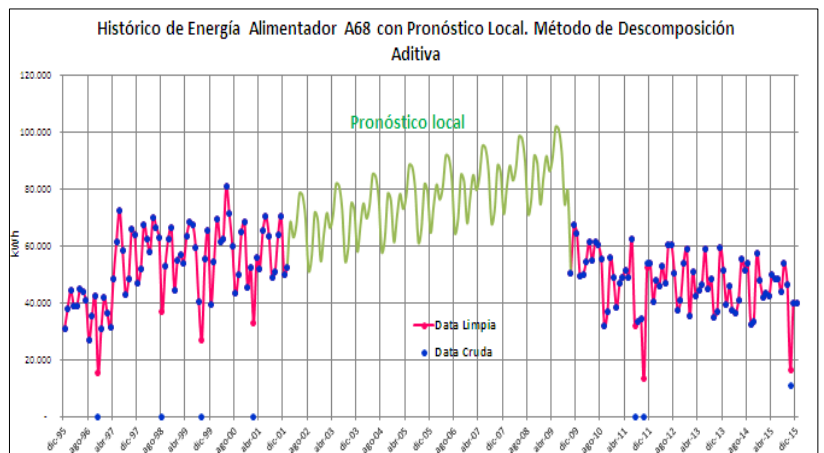
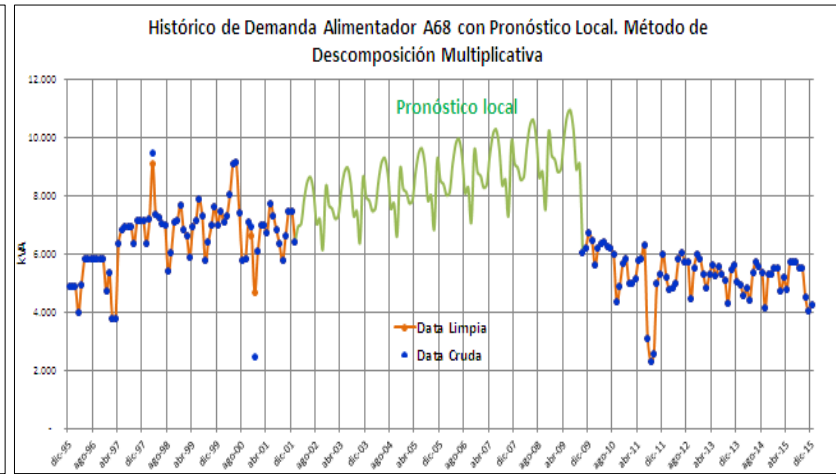
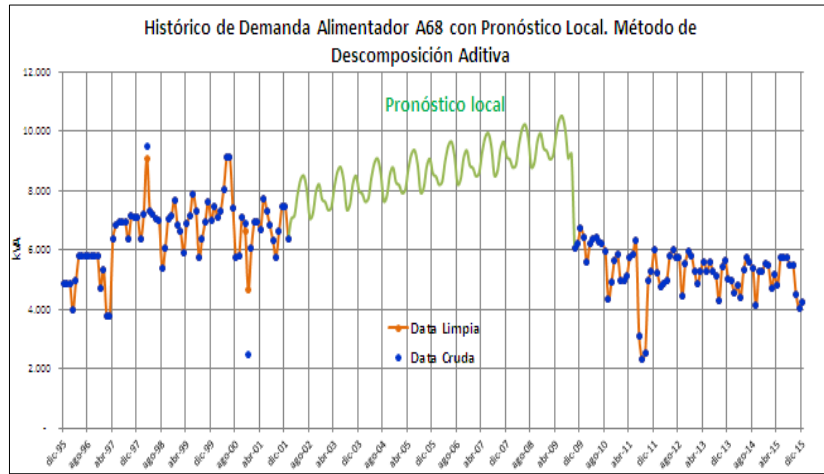
Slope of Trend Line		(5)										
Intercept		57.423										
Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast (Tt)	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Multiplicative Forecast Value (Ft)
dic-01	73	49.755	58.407	0,85	57.036	57.382	(7.281)	(10.649)	46.387	87	82	46.620
ene-02	74	52.645	58.207	0,90	57.031	57.377	(4.386)	(1.443)	55.587	92	99	56.230
feb-02	75	57.377	58.672	0,98	57.025	60.153	351	5.879	<b>62.904</b>	101	110	<b>62.880</b>
mar-02	76	60.153	59.660	1,01	57.020	56.109	3.133	671	<b>57.691</b>	105	101	<b>57.689</b>
abr-02	77	56.109	58.793	0,95	57.015	57.361	(906)	995	<b>58.010</b>	98	102	<b>58.011</b>
may-02	78	57.361	57.044	1,01	57.010	67.796	351	11.976	<b>68.985</b>	101	121	<b>68.941</b>
jun-02	79	67.796	56.510	1,20	57.004	69.166	10.792	11.230	<b>68.234</b>	119	120	<b>68.186</b>
jul-02	80	69.166	57.764	1,20	56.999	60.660	12.167	3.103	<b>60.102</b>	121	105	<b>60.088</b>
ago-02	81	60.660	57.338	1,06	56.994	40.567	3.666	(15.145)	<b>41.849</b>	106	74	<b>41.913</b>
sep-02	82	40.567	57.242	0,71	56.988	42.735	(16.422)	(10.402)	<b>46.587</b>	71	82	<b>46.626</b>
oct-02	83	42.735	57.236	0,75	56.983	63.798	(14.249)	5.157	<b>62.140</b>	75	84	<b>47.584</b>
nov-02	84	63.798	57.231	1,11	56.978	64.806	6.820	2.747	<b>59.725</b>	112	101	<b>57.594</b>
dic-02	85	64.806	57.226	1,13	56.973	47.530	7.834	(10.649)	<b>46.324</b>	114	82	<b>46.568</b>
ene-03	86	47.530	57.219	0,83	56.967	56.220	(9.437)	(1.443)	<b>55.524</b>	83	99	<b>56.168</b>

feb-03	87	56.220	57.213	0,98	56.962	60.086	(742)	5.879	<b>62.841</b>	99	110	<b>62.810</b>
mar-03	88	60.086	57.207	1,05	56.957	56.046	3.129	671	<b>57.627</b>	105	101	<b>57.625</b>
abr-03	89	56.046	57.203	0,98	56.951	57.297	(905)	995	<b>57.947</b>	98	102	<b>57.946</b>
may-03	90	57.297	57.199	1,00	56.946	67.721	351	11.976	<b>68.922</b>	101	121	<b>68.864</b>
jun-03	91	67.721	57.193	1,18	56.941	69.089	10.780	11.230	<b>68.170</b>	119	120	<b>68.110</b>
jul-03	92	69.089	57.187	1,21	56.935	60.593	12.153	3.103	<b>60.039</b>	121	105	<b>60.021</b>
ago-03	93	60.593	57.183	1,06	56.930	40.521	3.662	(15.145)	<b>41.785</b>	106	74	<b>41.867</b>
sep-03	94	40.521	57.178	0,71	56.925	42.687	(16.404)	(10.402)	<b>46.523</b>	71	82	<b>46.574</b>
oct-03	95	42.687	57.172	0,75	56.920	63.727	(14.233)	5.157	<b>62.077</b>	75	84	<b>47.531</b>
nov-03	96	63.727	57.167	1,11	56.914	64.734	6.812	2.747	<b>59.662</b>	112	101	<b>57.530</b>
dic-03	97	64.734	57.162	1,13	56.909	47.477	7.825	(10.649)	<b>46.260</b>	114	82	<b>46.516</b>
ene-04	98	47.477	57.155	0,83	56.904	56.157	(9.427)	(1.443)	<b>55.460</b>	83	99	<b>56.105</b>
feb-04	99	56.157	57.149	0,98	56.898	60.019	(741)	5.879	<b>62.777</b>	99	110	<b>62.740</b>
mar-04	100	60.019	57.143	1,05	56.893	55.983	3.126	671	<b>57.564</b>	105	101	<b>57.561</b>
abr-04	101	55.983	57.140	0,98	56.888	57.233	(904)	995	<b>57.883</b>	98	102	<b>57.881</b>
may-04	102	57.233	57.136	1,00	56.883	67.645	350	11.976	<b>68.858</b>	101	121	<b>68.787</b>
jun-04	103	67.645	57.130	1,18	56.877	69.011	10.768	11.230	<b>68.107</b>	119	120	<b>68.034</b>
jul-04	104	69.011	57.124	1,21	56.872	60.525	12.140	3.103	<b>59.975</b>	121	105	<b>59.954</b>
ago-04	105	60.525	57.119	1,06	56.867	40.476	3.658	(15.145)	<b>41.721</b>	106	74	<b>41.820</b>
sep-04	106	40.476	57.114	0,71	56.861	42.639	(16.385)	(10.402)	<b>46.460</b>	71	82	<b>46.522</b>
oct-04	107	42.639	57.108	0,75	56.856	63.656	(14.217)	5.157	<b>62.013</b>	75	84	<b>47.478</b>
nov-04	108	63.656	57.103	1,11	56.851	64.662	6.805	2.747	<b>59.598</b>	112	101	<b>57.466</b>
dic-04	109	64.662	57.098	1,13	56.845	47.424	7.816	(10.649)	<b>46.197</b>	114	82	<b>46.464</b>
ene-05	110	47.424	57.092	0,83	56.840	56.094	(9.416)	(1.443)	<b>55.397</b>	83	99	<b>56.042</b>
feb-05	111	56.094	57.085	0,98	56.835	59.952	(740)	5.879	<b>62.713</b>	99	110	<b>62.670</b>
mar-05	112	59.952	57.080	1,05	56.830	55.921	3.122	671	<b>57.500</b>	105	101	<b>57.496</b>
abr-05	113	55.921	57.076	0,98	56.824	57.169	(903)	995	<b>57.820</b>	98	102	<b>57.817</b>
may-05	114	57.169	57.072	1,00	56.819	67.570	350	11.976	<b>68.795</b>	101	121	<b>68.710</b>
jun-05	115	67.570	57.066	1,18	56.814	68.934	10.756	11.230	<b>68.043</b>	119	120	<b>67.958</b>
jul-05	116	68.934	57.060	1,21	56.808	60.457	12.126	3.103	<b>59.912</b>	121	105	<b>59.887</b>
ago-05	117	60.457	57.055	1,06	56.803	40.431	3.654	(15.145)	<b>41.658</b>	106	74	<b>41.773</b>
sep-05	118	40.431	57.050	0,71	56.798	42.592	(16.367)	(10.402)	<b>46.396</b>	71	82	<b>46.470</b>
oct-05	119	42.592	57.045	0,75	56.793	63.584	(14.201)	5.157	<b>61.949</b>	75	84	<b>47.425</b>
nov-05	120	63.584	57.039	1,11	56.787	64.590	6.797	2.747	<b>59.535</b>	112	101	<b>57.402</b>
dic-05	121	64.590	57.034	1,13	56.782	47.371	7.808	(10.649)	<b>46.133</b>	114	82	<b>46.412</b>
ene-06	122	47.371	57.028	0,83	56.777	56.032	(9.406)	(1.443)	<b>55.333</b>	83	99	<b>55.980</b>
feb-06	123	56.032	57.021	0,98	56.771	59.885	(740)	5.879	<b>62.650</b>	99	110	<b>62.600</b>
mar-06	124	59.885	57.016	1,05	56.766	55.858	3.119	671	<b>57.437</b>	105	101	<b>57.432</b>
abr-06	125	55.858	57.012	0,98	56.761	57.105	(902)	995	<b>57.756</b>	98	102	<b>57.752</b>
may-06	126	57.105	57.008	1,00	56.755	67.494	350	11.976	<b>68.731</b>	101	121	<b>68.634</b>
jun-06	127	67.494	57.002	1,18	56.750	68.857	10.744	11.230	<b>67.980</b>	119	120	<b>67.882</b>
jul-06	128	68.857	56.996	1,21	56.745	60.390	12.112	3.103	<b>59.848</b>	121	105	<b>59.820</b>
ago-06	129	60.390	56.992	1,06	56.740	40.386	3.650	(15.145)	<b>41.594</b>	106	74	<b>41.726</b>
sep-06	130	40.386	56.986	0,71	56.734	42.544	(16.349)	(10.402)	<b>46.333</b>	71	82	<b>46.418</b>
oct-06	131	42.544	56.981	0,75	56.729	63.513	(14.185)	5.157	<b>61.886</b>	75	84	<b>47.372</b>
nov-06	132	63.513	56.976	1,11	56.724	64.517	6.790	2.747	<b>59.471</b>	112	101	<b>57.338</b>
dic-06	133	64.517	56.970	1,13	56.718	47.318	7.799	(10.649)	<b>46.069</b>	114	82	<b>46.361</b>
ene-07	134	47.318	56.964	0,83	56.713	55.969	(9.395)	(1.443)	<b>55.270</b>	83	99	<b>55.917</b>
feb-07	135	55.969	56.958	0,98	56.708	59.818	(739)	5.879	<b>62.586</b>	99	110	<b>62.530</b>
mar-07	136	59.818	56.952	1,05	56.703	55.796	3.115	671	<b>57.373</b>	105	101	<b>57.368</b>

abr-07	137	55.796	56.948	0,98	56.697	57.041	(901)	995	<b>57.693</b>	98	102	<b>57.687</b>
may-07	138	57.041	56.944	1,00	56.692	67.419	349	11.976	<b>68.668</b>	101	121	<b>68.557</b>
jun-07	139	67.419	56.938	1,18	56.687	68.780	10.732	11.230	<b>67.916</b>	119	120	<b>67.806</b>
jul-07	140	68.780	56.932	1,21	56.681	60.322	12.099	3.103	<b>59.785</b>	121	105	<b>59.753</b>
ago-07	141	60.322	56.928	1,06	56.676	40.340	3.646	(15.145)	<b>41.531</b>	106	74	<b>41.680</b>
sep-07	142	40.340	56.923	0,71	56.671	42.496	(16.330)	(10.402)	<b>46.269</b>	71	82	<b>46.366</b>
oct-07	143	42.496	56.917	0,75	56.665	63.442	(14.169)	5.157	<b>61.822</b>	75	84	<b>47.319</b>
nov-07	144	63.442	56.912	1,11	56.660	64.445	6.782	2.747	<b>59.408</b>	112	101	<b>57.273</b>
dic-07	145	64.445	56.906	1,13	56.655	47.265	7.790	(10.649)	<b>46.006</b>	114	82	<b>46.309</b>
ene-08	146	47.265	56.900	0,83	56.650	55.906	(9.385)	(1.443)	<b>55.206</b>	83	99	<b>55.854</b>
feb-08	147	55.906	56.894	0,98	56.644	59.751	(738)	5.879	<b>62.523</b>	99	110	<b>62.460</b>
mar-08	148	59.751	56.888	1,05	56.639	55.733	3.112	671	<b>57.309</b>	105	101	<b>57.303</b>
abr-08	149	55.733	56.884	0,98	56.634	56.977	(900)	995	<b>57.629</b>	98	102	<b>57.623</b>
may-08	150	56.977	56.880	1,00	56.628	67.343	349	11.976	<b>68.604</b>	101	121	<b>68.480</b>
jun-08	151	67.343	56.874	1,18	56.623	68.703	10.720	11.230	<b>67.853</b>	119	120	<b>67.730</b>
jul-08	152	68.703	56.868	1,21	56.618	60.254	12.085	3.103	<b>59.721</b>	121	105	<b>59.686</b>
ago-08	153	60.254	56.864	1,06	56.613	40.295	3.642	(15.145)	<b>41.467</b>	106	74	<b>41.633</b>
sep-08	154	40.295	56.859	0,71	56.607	42.449	(16.312)	(10.402)	<b>46.206</b>	71	82	<b>46.314</b>
oct-08	155	42.449	56.853	0,75	56.602	63.371	(14.153)	5.157	<b>61.759</b>	75	84	<b>47.266</b>
nov-08	156	63.371	56.848	1,11	56.597	64.373	6.774	2.747	<b>59.344</b>	112	101	<b>57.209</b>
dic-08	157	64.373	56.843	1,13	56.591	47.212	7.781	(10.649)	<b>45.942</b>	114	82	<b>46.257</b>
ene-09	158	47.212	56.837	0,83	56.586	55.844	(9.374)	(1.443)	<b>55.143</b>	83	99	<b>55.792</b>
feb-09	159	55.844	56.831	0,98	56.581	59.678	(737)	5.879	<b>62.459</b>	99	110	<b>62.390</b>
mar-09	160	59.678	56.826	1,05	56.575	55.676	3.103	671	<b>57.246</b>	105	101	<b>57.239</b>
abr-09	161	55.676	56.822	0,98	56.570	56.919	(894)	995	<b>57.566</b>	98	102	<b>57.558</b>
may-09	162	56.919	57.466	0,99	56.565	67.274	354	11.976	<b>68.541</b>	101	121	<b>68.403</b>
jun-09	163	67.274	57.785	1,16	56.560	68.632	10.714	11.230	<b>67.789</b>	119	120	<b>67.654</b>
jul-09	164	68.632	57.771	1,19	56.554	60.192	12.078	3.103	<b>59.658</b>	121	105	<b>59.619</b>
ago-09	165	60.192	57.966	1,04	56.549	40.250	3.644	(15.145)	<b>41.404</b>	106	74	<b>41.586</b>
sep-09	166	40.250	57.464	0,70	56.544	42.405	(16.294)	(10.402)	<b>46.142</b>	71	82	<b>46.262</b>
oct-09	167	50.168	57.033	0,88	56.538	63.306	(6.370)	5.157	61.695	89	84	47.213
nov-09	168	67.200	57.513	1,17	56.533	64.307	10.667	2.747	59.281	119	101	57.145







[ANEXO N° 3]

**Cálculo de la Desviación Media Absoluta (MAD) y del Error Cuadrático Medio (RMSE) para el pronóstico local de Demanda y de Energía comparando vs histórico para Octubre 2009- Diciembre 2015**

✓ **Método de Suavizado Exponencial de Holt-Winters**

• **Alimentador A5-C1**

**DEMANDA (kVA)**

	Pronóstico	Data Limpia	Diferencia	Diferencia Al cuadrado	RMSE	361
					MAD	313
oct-09	1.466	1.534	68	4.655		
nov-09	1.491	1.534	43	1.866		
dic-09	1.477	1.534	57	3.264		
ene-10	1.488	1.534	46	2.151		
feb-10	1.471	1.534	63	3.908		
mar-10	1.425	1.534	109	11.827		
abr-10	1.462	1.534	72	5.182		
may-10	1.534	1.534	0	0		
jun-10	1.528	1.534	6	36		
jul-10	1.517	1.534	17	278		
ago-10	1.529	1.534	5	29		
sep-10	1.489	1.534	45	2.068		
oct-10	1.462	1.534	72	5.184		
nov-10	1.485	1.534	49	2.367		
dic-10	1.485	1.534	49	2.363		
ene-11	1.481	1.534	53	2.853		
feb-11	1.482	1.181	301	90.324		
mar-11	1.436	1.128	308	95.112		
abr-11	1.445	1.245	200	39.837		
may-11	1.519	1.274	245	60.237		
jun-11	1.538	1.299	239	57.328		
jul-11	1.516	941	576	331.627		
ago-11	1.526	1.250	276	76.305		
sep-11	1.504	1.250	254	64.510		
oct-11	1.464	1.250	214	45.717		
nov-11	1.477	1.229	248	61.723		
dic-11	1.490	1.222	268	72.059		
ene-12	1.481	1.126	355	125.685		
feb-12	1.482	1.125	357	127.586		
mar-12	1.452	1.126	326	106.221		
abr-12	1.435	1.146	289	83.301		
may-12	1.500	1.230	270	72.842		
jun-12	1.543	1.245	298	88.891		
jul-12	1.522	1.245	277	76.891		
ago-12	1.521	1.245	276	76.082		
sep-12	1.515	1.245	270	72.946		
oct-12	1.472	1.245	227	51.672		

nov-12	1.469	1.245	224	50.290
dic-12	1.491	1.245	246	60.609
ene-13	1.484	1.050	434	188.628
feb-13	1.481	1.050	431	185.343
mar-13	1.464	1.050	414	171.137
abr-13	1.435	1.096	339	115.013
may-13	1.478	1.184	294	86.448
jun-13	1.541	1.184	357	127.294
jul-13	1.531	1.184	347	120.622
ago-13	1.517	1.046	471	222.274
sep-13	1.520	971	549	300.941
oct-13	1.485	1.067	418	174.709
nov-13	1.464	1.170	294	86.719
dic-13	1.487	1.054	433	187.538
ene-14	1.490	1.054	436	189.705
feb-14	1.480	1.054	426	181.352
mar-14	1.470	1.054	416	173.411
abr-14	1.442	1.054	388	150.490
may-14	1.461	1.125	336	112.598
jun-14	1.529	1.125	404	163.470
jul-14	1.541	1.125	416	173.214
ago-14	1.518	1.122	396	156.607
sep-14	1.519	751	768	590.380
oct-14	1.497	1.048	449	201.840
nov-14	1.466	1.021	445	197.762
dic-14	1.479	1.021	458	210.220
ene-15	1.493	1.021	472	223.135
feb-15	1.482	1.021	461	212.380
mar-15	1.473	1.021	452	204.550
abr-15	1.451	949	502	251.658
may-15	1.450	1.094	356	127.007
jun-15	1.512	1.094	418	174.573
jul-15	1.547	1.094	453	205.232
ago-15	1.523	1.094	429	184.261
sep-15	1.517	1.046	471	221.583
oct-15	1.507	616	891	793.289
nov-15	1.472	854	618	381.898
dic-15	1.472	914	558	311.622

### ENERGÍA (kWh)

	Pronóstico	Data Limpia	Diferencia	Diferencia al cuadrado		
					<b>RMSE</b>	<b>24133</b>
					<b>MAD</b>	<b>22963</b>
oct-09	34.816	13.523	21.293	453.387.972		
nov-09	22.323	15.467	6.856	47.010.091		
dic-09	29.483	13.884	15.599	243.318.905		
ene-10	28.236	11.923	16.313	266.121.039		
feb-10	27.738	11.257	16.481	271.631.942		
mar-10	25.238	11.561	13.677	187.058.702		
abr-10	24.850	14.240	10.610	112.565.884		
may-10	22.597	12.903	9.694	93.971.107		
jun-10	27.820	14.347	13.473	181.529.727		
jul-10	22.902	12.955	9.947	98.941.201		
ago-10	43.905	12.852	31.053	964.308.946		
sep-10	26.006	8.907	17.099	292.362.910		
oct-10	36.783	10.374	26.409	697.441.497		
nov-10	28.717	12.640	16.077	258.458.082		
dic-10	25.656	10.529	15.127	228.817.223		
ene-11	35.148	9.600	25.548	652.676.480		
feb-11	27.825	10.457	17.368	301.653.017		
mar-11	29.872	9.755	20.117	404.702.076		
abr-11	25.835	11.253	14.582	212.640.876		
may-11	26.227	11.355	14.872	221.164.277		
jun-11	26.856	11.520	15.336	235.201.231		



jul-11	28.588	6.830	21.758	473.413.391
ago-11	32.688	8.877	23.811	566.977.957
sep-11	39.724	9.173	30.551	933.387.866
oct-11	25.967	3.565	22.402	501.865.603
nov-11	40.981	10.977	30.003	900.204.691
dic-11	23.210	11.200	12.010	144.230.832
ene-12	36.759	8.516	28.243	797.693.208
feb-12	33.260	9.200	24.060	578.877.678
mar-12	29.405	8.774	20.631	425.621.109
abr-12	30.999	11.093	19.906	396.257.704
may-12	26.284	10.116	16.168	261.411.378
jun-12	30.037	11.307	18.730	350.806.665
jul-12	29.528	13.471	16.057	257.812.185
ago-12	34.447	11.252	23.195	538.001.592
sep-12	40.368	8.960	31.408	986.452.306
oct-12	33.390	8.465	24.925	621.255.960
nov-12	32.266	11.093	21.173	448.314.141
dic-12	34.756	10.890	23.866	569.572.516
ene-13	24.770	7.123	17.647	311.428.013
feb-13	45.329	9.771	35.558	1.264.379.612
mar-13	27.459	8.206	19.253	370.664.037
abr-13	35.128	8.960	26.168	684.778.488
may-13	28.819	9.961	18.858	355.609.654
jun-13	30.157	11.147	19.010	361.369.827
jul-13	33.077	9.187	23.890	570.744.981
ago-13	33.822	9.548	24.274	589.206.090
sep-13	42.756	7.947	34.809	1.211.673.943
oct-13	38.516	7.123	31.393	985.499.798
nov-13	33.381	11.413	21.968	482.596.692
dic-13	36.976	9.806	27.170	738.223.892
ene-14	29.859	8.413	21.446	459.909.673
feb-14	34.436	9.257	25.179	633.960.830
mar-14	40.477	8.103	32.374	1.048.094.195
abr-14	26.052	8.533	17.519	306.905.415
may-14	38.983	8.310	30.673	940.810.756
jun-14	26.335	11.840	14.495	210.112.594
jul-14	37.697	9.497	28.200	795.212.014
ago-14	34.155	10.168	23.987	575.394.336
sep-14	42.758	6.560	36.198	1.310.282.621
oct-14	44.122	8.774	35.348	1.249.473.687
nov-14	35.628	10.773	24.855	617.748.985
dic-14	37.776	8.310	29.466	868.240.848
ene-15	35.059	8.465	26.594	707.230.578
feb-15	32.483	8.000	24.483	599.412.139
mar-15	43.227	7.690	35.537	1.262.890.994
abr-15	31.890	9.760	22.130	489.746.854
may-15	31.836	8.723	23.113	534.205.794
jun-15	36.298	9.173	27.125	735.765.516
jul-15	28.205	9.652	18.553	344.197.408
ago-15	44.164	9.858	34.306	1.176.908.422
sep-15	35.799	7.627	28.172	793.649.748
oct-15	51.965	6.065	45.900	2.106.776.824
nov-15	37.764	8.213	29.551	873.281.560
dic-15	39.028	8.413	30.615	937.275.286

● **Alimentador A7**

**DEMANDA (kVA)**

	Pronóstico	Data		Diferencia	Diferencia Al cuadrado	RMSE	518
		Limpia					
oct-09	1.394	1.066	328	107.301			
nov-09	1.312	943	369	136.142			
dic-09	1.399	943	456	207.791			
ene-10	1.441	1.068	373	139.409			
feb-10	1.312	912	400	160.322			
mar-10	1.110	943	167	27.812			
abr-10	974	1.054	80	6.366			
may-10	958	1.018	60	3.660			
jun-10	1.021	1.058	37	1.377			

jul-10	1.157	1.020	137	18.676
ago-10	1.395	996	399	158.921
sep-10	1.550	748	802	643.933
oct-10	1.448	898	550	302.452
nov-10	1.335	898	437	190.894
dic-10	1.390	898	492	241.796
ene-11	1.454	854	600	359.910
feb-11	1.359	845	514	263.883
mar-11	1.161	864	297	88.008
abr-11	1.006	874	132	17.420
may-11	966	902	64	4.034
jun-11	1.017	907	110	12.002
jul-11	1.139	538	601	361.192
ago-11	1.358	602	756	571.101
sep-11	1.543	602	941	885.867
oct-11	1.495	881	614	376.443
nov-11	1.367	942	425	180.563
dic-11	1.385	924	461	212.246
ene-12	1.459	890	569	323.331
feb-12	1.399	869	530	280.469
mar-12	1.212	852	360	129.569
abr-12	1.042	914	128	16.302
may-12	978	979	1	1
jun-12	1.013	1.051	38	1.428
jul-12	1.124	972	152	22.961
ago-12	1.323	972	351	123.495
sep-12	1.526	747	779	606.766
oct-12	1.531	955	576	331.276
nov-12	1.405	955	450	202.353
dic-12	1.386	917	469	220.118
ene-13	1.458	991	467	217.883
feb-13	1.431	864	567	321.498
mar-13	1.262	850	412	170.111
abr-13	1.081	914	167	27.857
may-13	994	1.013	19	372
jun-13	1.012	902	110	12.034
jul-13	1.110	895	215	46.014
ago-13	1.292	874	418	174.865
sep-13	1.502	811	691	477.713
oct-13	1.555	941	614	376.867
nov-13	1.445	917	528	278.905
dic-13	1.395	816	579	335.414
ene-14	1.454	811	643	413.707
feb-14	1.455	746	709	503.389
mar-14	1.311	768	543	294.545
abr-14	1.123	840	283	80.155
may-14	1.014	859	155	24.070
jun-14	1.013	907	106	11.170
jul-14	1.097	828	269	72.389
ago-14	1.264	900	364	132.322
sep-14	1.474	694	780	608.601
oct-14	1.568	811	757	572.643
nov-14	1.484	874	610	372.613
dic-14	1.411	655	756	572.201
ene-15	1.451	523	928	860.516
feb-15	1.472	557	915	838.024
mar-15	1.355	516	839	704.460
abr-15	1.168	564	604	364.314
may-15	1.039	929	110	12.050
jun-15	1.017	886	131	17.085
jul-15	1.086	886	200	40.139
ago-15	1.238	878	360	129.561
sep-15	1.444	878	566	320.323
oct-15	1.570	537	1.033	1.067.109
nov-15	1.520	629	891	793.785
dic-15	1.434	444	990	979.877

### ENERGÍA (kWh)

	Pronóstico	Data		Diferencia	Diferencia al cuadrado		
		Limpia				RMSE	2832
oct-09	8.438	7.432	1.006	1.011.705	MAD	2296	
nov-09	9.815	8.880	935	874.102			
dic-09	10.590	8.361	2.229	4.968.688			
ene-10	9.774	8.361	1.413	1.995.568			
feb-10	9.062	8.057	1.005	1.010.453			
mar-10	8.879	8.516	363	131.611			
abr-10	8.909	9.680	771	593.931			

may-10	8.841	9.135	294	86.189
jun-10	9.409	9.520	111	12.249
jul-10	10.331	9.523	808	653.090
ago-10	10.279	8.516	1.763	3.109.676
sep-10	8.368	4.640	3.728	13.897.595
oct-10	8.412	6.658	1.754	3.076.186
nov-10	9.683	8.560	1.123	1.262.037
dic-10	10.520	7.587	2.933	8.600.349
ene-11	9.860	6.116	3.744	14.015.700
feb-11	9.136	7.800	1.336	1.784.986
mar-11	8.900	7.897	1.003	1.006.723
abr-11	8.910	8.160	750	562.870
may-11	8.852	7.510	1.342	1.801.668
jun-11	9.357	9.840	483	232.983
jul-11	10.245	4.237	6.008	36.101.144
ago-11	10.290	4.723	5.567	30.993.056
sep-11	8.561	4.880	3.681	13.546.832
oct-11	8.409	1.329	7.081	50.134.975
nov-11	9.561	8.240	1.321	1.746.000
dic-11	10.442	8.052	2.390	5.713.449
ene-12	9.930	5.961	3.969	15.751.260
feb-12	9.211	7.886	1.325	1.754.615
mar-12	8.926	6.839	2.087	4.357.580
abr-12	8.913	8.480	433	187.090
may-12	8.861	7.432	1.429	2.043.449
jun-12	9.311	10.000	689	474.882
jul-12	10.162	9.987	175	30.499
ago-12	10.291	8.129	2.162	4.672.269
sep-12	8.735	6.400	2.335	5.451.739
oct-12	8.425	7.587	838	702.908
nov-12	9.450	9.280	170	29.022
dic-12	10.360	9.677	683	466.162
ene-13	9.985	5.497	4.488	20.139.862
feb-13	9.284	8.657	627	393.641
mar-13	8.957	7.277	1.680	2.822.129
abr-13	8.917	7.360	1.557	2.423.153
may-13	8.870	8.129	741	548.372
jun-13	9.269	9.920	651	423.228
jul-13	10.081	8.206	1.875	3.516.366
ago-13	10.282	8.129	2.153	4.635.579
sep-13	8.892	4.480	4.412	19.463.024
oct-13	8.457	6.039	2.418	5.847.216
nov-13	9.351	9.840	489	238.791
dic-13	10.274	8.594	1.680	2.821.669
ene-14	10.026	5.806	4.220	17.805.775
feb-14	9.356	8.400	956	914.062
mar-14	8.991	6.348	2.643	6.986.857
abr-14	8.923	6.400	2.523	6.365.099
may-14	8.877	6.271	2.606	6.789.850
jun-14	9.232	9.120	112	12.650
jul-14	10.004	7.484	2.520	6.350.854
ago-14	10.266	8.748	1.518	2.304.047
sep-14	9.032	4.000	5.032	25.319.887
oct-14	8.501	5.265	3.236	10.471.906
nov-14	9.265	7.760	1.505	2.264.298
dic-14	10.186	5.806	4.380	19.184.057
ene-15	10.054	5.110	4.944	24.440.314
feb-15	9.424	5.314	4.110	16.895.985
mar-15	9.029	5.342	3.687	13.593.999
abr-15	8.932	6.240	2.692	7.244.650
may-15	8.883	6.271	2.612	6.825.111
jun-15	9.200	6.560	2.640	6.967.075
jul-15	9.931	5.574	4.357	18.979.267
ago-15	10.243	7.897	2.346	5.505.184
sep-15	9.156	3.360	5.796	33.598.310
oct-15	8.554	4.568	3.986	15.891.178
nov-15	9.191	4.960	4.231	17.898.792
dic-15	10.098	4.568	5.530	30.578.474

• Alimentador A68

**DEMANDA (kVA)**

	Pronóstico	Data Limpia	Diferencia	Diferencia Al cuadrado	RMSE	1924
					MAD	1704
oct-09	6.646	6.061	585	341.878		
nov-09	6.766	6.196	570	325.366		
dic-09	7.245	6.714	531	281.796		
ene-10	7.382	6.445	937	878.491		
feb-10	7.033	5.606	1.427	2.035.900		
mar-10	6.809	6.202	607	368.577		
abr-10	6.766	6.374	392	153.316		
may-10	6.668	6.413	255	64.998		
jun-10	6.799	6.259	540	291.460		
jul-10	7.194	6.202	992	984.535		
ago-10	7.345	5.978	1.367	1.870.046		
sep-10	7.058	4.368	2.690	7.237.361		
oct-10	6.704	4.902	1.802	3.245.451		
nov-10	6.736	5.658	1.078	1.161.223		
dic-10	7.165	5.837	1.328	1.763.176		
ene-11	7.390	4.986	2.404	5.780.461		
feb-11	7.115	4.998	2.117	4.482.978		
mar-11	6.843	5.126	1.717	2.948.155		
abr-11	6.776	5.754	1.022	1.044.774		
may-11	6.697	5.856	841	706.728		
jun-11	6.774	6.310	464	215.318		
jul-11	7.130	3.121	4.008	16.067.044		
ago-11	7.345	2.300	5.045	25.452.765		
sep-11	7.130	2.552	4.578	20.959.643		
oct-11	6.767	4.974	1.793	3.214.556		
nov-11	6.721	5.281	1.440	2.072.226		
dic-11	7.089	5.997	1.092	1.192.794		
ene-12	7.377	5.210	2.167	4.695.801		
feb-12	7.187	4.787	2.400	5.762.395		
mar-12	6.889	4.845	2.044	4.177.468		
abr-12	6.787	4.986	1.801	3.242.964		
may-12	6.720	5.805	915	837.940		
jun-12	6.761	6.029	732	535.608		
jul-12	7.069	5.747	1.322	1.746.612		
ago-12	7.329	5.747	1.582	2.502.275		
sep-12	7.190	4.451	2.739	7.501.726		
oct-12	6.835	5.523	1.312	1.720.610		
nov-12	6.720	5.971	749	560.741		
dic-12	7.021	5.824	1.197	1.432.498		
ene-13	7.347	5.299	2.048	4.194.276		
feb-13	7.246	4.845	2.401	5.764.505		
mar-13	6.943	5.293	1.650	2.723.393		
abr-13	6.801	5.619	1.182	1.397.805		
may-13	6.739	5.261	1.478	2.185.168		
jun-13	6.756	5.581	1.175	1.380.428		
jul-13	7.014	5.286	1.728	2.986.760		
ago-13	7.300	5.107	2.193	4.809.311		
sep-13	7.237	4.320	2.917	8.510.737		
oct-13	6.904	5.446	1.458	2.124.837		
nov-13	6.732	5.645	1.087	1.181.768		
dic-13	6.962	5.050	1.912	3.656.161		
ene-14	7.305	4.954	2.351	5.526.675		
feb-14	7.289	4.557	2.732	7.462.255		
mar-14	7.002	4.819	2.183	4.766.605		
abr-14	6.822	4.416	2.406	5.788.042		
may-14	6.754	5.338	1.416	2.006.329		
jun-14	6.756	5.741	1.015	1.030.599		
jul-14	6.968	5.581	1.387	1.923.464		
ago-14	7.262	5.370	1.892	3.580.841		
sep-14	7.270	4.144	3.126	9.773.268		
oct-14	6.972	5.286	1.686	2.840.923		
nov-14	6.756	5.306	1.450	2.101.768		
dic-14	6.914	5.530	1.384	1.916.025		

ene-15	7.255	5.510	1.745	3.044.961
feb-15	7.315	4.730	2.585	6.683.780
mar-15	7.062	5.184	1.878	3.526.573
abr-15	6.849	4.794	2.055	4.224.790
may-15	6.768	5.734	1.034	1.068.947
jun-15	6.759	5.734	1.025	1.051.332
jul-15	6.930	5.734	1.196	1.429.934
ago-15	7.219	5.498	1.721	2.963.190
sep-15	7.290	5.498	1.792	3.209.601
oct-15	7.036	4.525	2.511	6.303.172
nov-15	6.789	4.019	2.770	7.672.944
dic-15	6.878	4.262	2.616	6.842.927

### ENERGÍA (kWh)

	Pronóstico	Data	Diferencia	Diferencia al cuadrado	RMSE	11610
		Limpia				MAD
oct-09	46.060	50.168	4.108	16.873.079		
nov-09	51.935	67.200	15.265	233.021.555		
dic-09	49.557	64.206	14.649	214.582.112		
ene-10	45.156	49.548	4.392	19.292.763		
feb-10	47.389	49.829	2.440	5.954.851		
mar-10	52.333	54.503	2.170	4.709.163		
abr-10	54.089	61.440	7.351	54.044.048		
may-10	54.360	54.916	556	309.394		
jun-10	58.588	61.440	2.852	8.133.183		
jul-10	62.436	60.284	2.152	4.631.223		
ago-10	61.339	55.329	6.010	36.125.876		
sep-10	51.729	32.000	19.729	389.216.664		
oct-10	46.559	36.748	9.811	96.257.701		
nov-10	51.312	55.680	4.368	19.081.273		
dic-10	49.843	48.929	914	835.765		
ene-11	45.651	38.194	7.457	55.604.477		
feb-11	47.160	46.857	303	91.590		
mar-11	51.817	49.135	2.682	7.195.495		
abr-11	53.924	51.627	2.297	5.276.898		
may-11	54.354	48.929	5.425	29.427.511		
jun-11	58.151	62.293	4.142	17.158.185		
jul-11	62.046	31.662	30.384	923.204.350		
ago-11	61.487	33.445	28.042	786.363.204		
sep-11	52.793	34.560	18.233	332.439.326		
oct-11	47.129	13.304	33.825	1.144.153.032		
nov-11	50.807	52.228	1.422	2.021.181		
dic-11	50.026	54.090	4.064	16.517.134		
ene-12	46.122	40.258	5.864	34.381.718		
feb-12	47.007	48.000	993	986.431		
mar-12	51.329	45.832	5.497	30.218.071		
abr-12	53.718	53.120	598	357.531		
may-12	54.328	46.865	7.463	55.689.787		
jun-12	57.757	60.373	2.616	6.843.439		
jul-12	61.647	60.490	1.157	1.337.617		
ago-12	61.573	50.168	11.405	130.069.673		
sep-12	53.756	37.333	16.423	269.700.749		
oct-12	47.751	40.877	6.874	47.257.143		
nov-12	50.415	53.973	3.558	12.657.601		
dic-12	50.130	58.839	8.709	75.845.748		
ene-13	46.560	35.290	11.270	127.003.921		
feb-13	46.920	50.971	4.051	16.411.004		
mar-13	50.874	42.323	8.551	73.120.315		
abr-13	53.478	44.587	8.891	79.050.023		
may-13	54.280	46.452	7.828	61.269.850		
jun-13	57.401	58.667	1.266	1.603.573		
jul-13	61.244	44.774	16.470	271.270.895		
ago-13	61.603	48.310	13.293	176.697.521		
sep-13	54.621	34.987	19.634	385.503.218		
oct-13	48.410	36.955	11.455	131.211.070		
nov-13	50.132	59.307	9.175	84.184.314		
dic-13	50.177	51.613	1.436	2.061.540		
ene-14	46.960	39.639	7.321	53.598.262		

feb-14	46.889	45.714	1.175	1.380.187
mar-14	50.456	37.368	13.088	171.308.115
abr-14	53.212	36.267	16.945	287.137.396
may-14	54.209	41.084	13.125	172.257.684
jun-14	57.076	55.467	1.609	2.588.532
jul-14	60.844	51.200	9.644	93.012.411
ago-14	61.583	53.884	7.699	59.278.977
sep-14	55.395	32.640	22.755	517.777.521
oct-14	49.090	33.445	15.645	244.765.132
nov-14	49.949	57.387	7.438	55.323.680
dic-14	50.186	48.103	2.083	4.337.599
ene-15	47.321	42.116	5.205	27.092.615
feb-15	46.904	43.200	3.704	13.716.749
mar-15	50.079	42.323	7.756	60.153.819
abr-15	52.928	49.920	3.008	9.045.635
may-15	54.115	48.310	5.805	33.699.363
jun-15	56.777	48.640	8.137	66.213.635
jul-15	60.450	43.974	16.476	271.466.791
ago-15	61.520	54.090	7.430	55.210.884
sep-15	56.081	46.507	9.574	91.660.126
oct-15	49.780	16.311	33.469	1.120.142.440
nov-15	49.859	40.107	9.752	95.096.955
dic-15	50.171	39.845	10.326	106.628.165

✓ Método de Descomposición según el Modelo Aditivo y Método de Descomposición según el Modelo Multiplicativo

● Alimentador A5-C1

DEMANDA (kVA)

	Pronóstico	Data	Diferencia	Diferencia	RMSE		Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	limpia		al Cuadrado	201		Multiplicativo		al cuadrado	204
oct-09	1.616	1.534	82	6.782	<b>MAD</b> <b>149</b>		1.626	92	8.423	<b>MAD</b> <b>152</b>
nov-09	1.585	1.534	51	2.637			1.590	56	3.114	
dic-09	1.484	1.534	50	2.500			1.471	63	3.979	
ene-10	1.509	1.534	25	647			1.506	28	774	
feb-10	1.516	1.534	18	325			1.514	20	412	
mar-10	1.514	1.534	20	401			1.511	23	528	
abr-10	1.531	1.534	3	7			1.530	4	16	
may-10	1.613	1.534	79	6.262			1.622	88	7.676	
jun-10	1.568	1.534	34	1.176			1.573	39	1.517	
jul-10	1.554	1.534	20	405			1.557	23	548	
ago-10	1.397	1.534	137	18.878			1.379	155	24.179	
sep-10	1.574	1.534	40	1.610			1.577	43	1.887	
oct-10	1.630	1.534	96	9.145		1.640	106	11.209		
nov-10	1.599	1.534	65	4.177		1.604	70	4.841		
dic-10	1.497	1.534	37	1.349		1.484	50	2.534		
ene-11	1.522	1.534	12	148		1.519	15	218		
feb-11	1.529	1.496	33	1.110		1.527	31	954		
mar-11	1.527	1.443	84	7.111		1.524	81	6.587		
abr-11	1.545	1.560	15	235		1.543	17	278		
may-11	1.626	1.589	37	1.406		1.636	47	2.180		
jun-11	1.582	1.614	32	1.046		1.587	27	751		
jul-11	1.567	1.256	312	97.263		1.571	315	99.413		
ago-11	1.410	1.565	155	24.036		1.390	175	30.464		
sep-11	1.587	1.565	22	506		1.591	26	681		
oct-11	1.643	1.565	78	6.083		1.654	89	7.932		
nov-11	1.612	1.544	68	4.623		1.617	73	5.394		
dic-11	1.511	1.537	26	695		1.496	41	1.642		
ene-12	1.535	1.441	94	8.874		1.532	91	8.343		
feb-12	1.543	1.440	103	10.526		1.540	100	9.996		
mar-12	1.541	1.441	100	9.920		1.537	96	9.258		
abr-12	1.558	1.461	97	9.396		1.556	96	9.125		
may-12	1.640	1.545	95	8.980		1.650	105	10.958		
jun-12	1.595	1.560	35	1.220		1.600	40	1.613		
jul-12	1.581	1.560	21	431		1.584	24	592		
ago-12	1.423	1.560	137	18.704		1.402	158	24.860		
sep-12	1.601	1.560	41	1.662		1.605	45	1.995		

oct-12	1.656	1.560	96	9.267	1.668	108	11.699
nov-12	1.625	1.560	65	4.260	1.631	71	5.072
dic-12	1.524	1.560	36	1.303	1.509	51	2.578
ene-13	1.548	1.365	183	33.664	1.545	180	32.536
feb-13	1.556	1.365	191	36.433	1.553	188	35.370
mar-13	1.554	1.365	189	35.673	1.550	185	34.327
abr-13	1.571	1.411	160	25.666	1.570	159	25.197
may-13	1.653	1.499	154	23.728	1.664	165	27.118
jun-13	1.608	1.499	109	11.926	1.614	115	13.162
jul-13	1.594	1.499	95	9.033	1.598	99	9.753
ago-13	1.436	1.361	76	5.702	1.414	53	2.830
sep-13	1.614	1.286	328	107.610	1.618	332	110.385
oct-13	1.669	1.382	288	82.679	1.682	300	90.156
nov-13	1.638	1.485	154	23.574	1.645	160	25.599
dic-13	1.537	1.369	168	28.285	1.522	153	23.397
ene-14	1.562	1.369	193	37.154	1.558	189	35.876
feb-14	1.569	1.369	200	40.059	1.566	197	38.872
mar-14	1.567	1.369	198	39.263	1.563	194	37.765
abr-14	1.584	1.369	215	46.432	1.583	214	45.773
may-14	1.666	1.440	226	51.218	1.678	238	56.486
jun-14	1.621	1.440	181	32.935	1.627	187	35.077
jul-14	1.607	1.440	167	27.994	1.611	171	29.302
ago-14	1.450	1.437	13	164	1.426	11	120
sep-14	1.627	1.066	561	314.938	1.632	566	320.010
oct-14	1.683	1.363	320	102.281	1.696	333	111.128
nov-14	1.652	1.336	316	99.739	1.659	323	104.182
dic-14	1.550	1.336	214	45.991	1.535	199	39.481
ene-15	1.575	1.336	239	57.134	1.571	235	55.434
feb-15	1.582	1.336	246	60.724	1.579	243	59.170
mar-15	1.580	1.336	244	59.742	1.576	240	57.787
abr-15	1.598	1.264	334	111.393	1.596	332	110.330
may-15	1.680	1.409	271	73.218	1.692	283	79.897
jun-15	1.635	1.409	226	50.966	1.641	232	53.755
jul-15	1.621	1.409	212	44.770	1.625	216	46.482
ago-15	1.463	1.409	54	2.923	1.438	29	837
sep-15	1.641	1.361	280	78.170	1.645	284	80.876
oct-15	1.696	931	765	585.176	1.710	779	607.365
nov-15	1.665	1.169	496	246.104	1.672	504	253.563
dic-15	1.564	1.229	335	112.044	1.547	318	101.402

### ENERGÍA (kWh)

	Pronóstico	Data	Diferencia	Diferencia	RMSE	Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	limpia		al Cuadrado	4.200	Multiplicativo		al cuadrado	4.293
oct-09	13.599	13.523	76	5.798		13.728	205	42.186	
nov-09	15.522	15.467	55	2.984		16.129	662	437.817	



dic-09	11.280	13.884	2.604	6.781.246
ene-10	12.348	11.923	425	180.786
feb-10	12.269	11.257	1.012	1.023.968
mar-10	12.214	11.561	653	427.031
abr-10	12.304	14.240	1.936	3.747.543
may-10	13.471	12.903	568	322.408
jun-10	13.937	14.347	410	168.256
jul-10	13.027	12.955	72	5.205
ago-10	11.109	12.852	1.743	3.038.352
sep-10	11.962	8.907	3.055	9.330.967
oct-10	13.814	10.374	3.440	11.835.869
nov-10	15.737	12.640	3.097	9.590.229
dic-10	11.495	10.529	966	933.351
ene-11	12.563	9.600	2.963	8.781.578
feb-11	12.484	10.457	2.027	4.109.121
mar-11	12.430	9.755	2.675	7.153.804
abr-11	12.519	11.253	1.266	1.603.582
may-11	13.686	11.355	2.331	5.433.528
jun-11	14.152	11.520	2.632	6.927.387
jul-11	13.242	6.830	6.412	41.116.547
ago-11	11.324	8.877	2.447	5.988.282
sep-11	12.177	9.173	3.004	9.023.094
oct-11	14.030	3.565	10.465	109.507.271
nov-11	15.952	10.977	4.975	24.746.652
dic-11	11.710	11.200	510	260.390
ene-12	12.779	8.516	4.263	18.169.386
feb-12	12.699	9.200	3.499	12.244.961
mar-12	12.645	8.774	3.871	14.983.427
abr-12	12.735	11.093	1.642	2.694.555
may-12	13.901	10.116	3.785	14.327.561
jun-12	14.367	11.307	3.060	9.364.680
jul-12	13.458	13.471	13	182
ago-12	11.539	11.252	287	82.530
sep-12	12.392	8.960	3.432	11.778.831
oct-12	14.245	8.465	5.780	33.404.895
nov-12	16.167	11.093	5.074	25.747.267
dic-12	11.925	10.890	1.035	1.072.194
ene-13	12.994	7.123	5.871	34.465.586
feb-13	12.914	9.771	3.143	9.881.364
mar-13	12.860	8.206	4.654	21.659.964
abr-13	12.950	8.960	3.990	15.917.653
may-13	14.116	9.961	4.155	17.267.017
jun-13	14.582	11.147	3.435	11.801.698
jul-13	13.673	9.187	4.486	20.121.445
ago-13	11.754	9.548	2.206	4.868.482
sep-13	12.607	7.947	4.660	21.717.591
oct-13	14.460	7.123	7.337	53.829.813
nov-13	16.382	11.413	4.969	24.694.539

<b>MAD</b>
<b>3.590</b>

10.945	2.939	8.637.451
12.264	341	116.100
12.216	959	919.779
12.124	563	317.311
12.247	1.993	3.971.082
13.669	766	586.053
14.246	101	10.274
13.110	155	23.919
10.676	2.176	4.732.816
11.707	2.800	7.837.844
13.962	3.588	12.875.697
16.403	3.763	14.160.623
11.131	602	362.381
12.472	2.872	8.247.105
12.423	1.966	3.865.123
12.329	2.574	6.627.536
12.454	1.201	1.442.707
13.899	2.544	6.472.498
14.486	2.966	8.794.814
13.330	6.500	42.250.946
10.856	1.979	3.915.799
11.903	2.730	7.452.820
14.196	10.631	113.022.657
16.677	5.700	32.490.579
11.317	117	13.669
12.680	4.164	17.337.391
12.630	3.430	11.764.435
12.534	3.760	14.141.338
12.661	1.568	2.458.663
14.130	4.014	16.109.626
14.726	3.419	11.686.635
13.551	80	6.352
11.035	217	47.011
12.099	3.139	9.855.553
14.430	5.965	35.581.617
16.952	5.859	34.325.839
11.503	613	375.585
12.888	5.765	33.233.626
12.837	3.066	9.399.576
12.740	4.534	20.553.473
12.868	3.908	15.271.661
14.360	4.399	19.353.394
14.966	3.819	14.581.240
13.771	4.584	21.015.111
11.215	1.667	2.777.291
12.296	4.349	18.911.416
14.664	7.541	56.865.373
17.226	5.813	33.793.393

<b>MAD</b>
<b>3.621</b>

dic-13	12.141	9.806	2.335	5.450.598	11.689	1.883	3.544.877
ene-14	13.209	8.413	4.796	23.000.881	13.096	4.683	21.929.584
feb-14	13.130	9.257	3.873	14.997.396	13.044	3.787	14.339.956
mar-14	13.075	8.103	4.972	24.722.874	12.945	4.842	23.441.968
abr-14	13.165	8.533	4.632	21.454.283	13.075	4.542	20.627.785
may-14	14.332	8.310	6.022	36.258.986	14.591	6.281	39.448.683
jun-14	14.798	11.840	2.958	8.747.064	15.206	3.366	11.326.630
jul-14	13.888	9.497	4.391	19.279.800	13.992	4.495	20.202.741
ago-14	11.970	10.168	1.802	3.245.932	11.394	1.226	1.502.738
sep-14	12.822	6.560	6.262	39.217.618	12.492	5.932	35.189.763
oct-14	14.675	8.774	5.901	34.822.554	14.898	6.124	37.500.848
nov-14	16.598	10.773	5.825	33.925.307	17.501	6.728	45.260.483
dic-14	12.356	8.310	4.046	16.368.781	11.875	3.565	12.707.223
ene-15	13.424	8.465	4.959	24.592.741	13.304	4.839	23.415.393
feb-15	13.345	8.000	5.345	28.567.215	13.251	5.251	27.570.417
mar-15	13.290	7.690	5.600	31.364.410	13.150	5.460	29.809.279
abr-15	13.380	9.760	3.620	13.104.837	13.282	3.522	12.402.138
may-15	14.547	8.723	5.824	33.915.797	14.821	6.098	37.190.337
jun-15	15.013	9.173	5.840	34.102.412	15.445	6.272	39.343.914
jul-15	14.103	9.652	4.451	19.811.938	14.212	4.560	20.796.042
ago-15	12.185	9.858	2.327	5.414.141	11.573	1.715	2.941.923
sep-15	13.038	7.627	5.411	29.274.383	12.688	5.061	25.618.440
oct-15	14.890	6.065	8.825	77.884.990	15.132	9.067	82.204.577
nov-15	16.813	8.213	8.600	73.955.305	17.775	9.562	91.431.345
dic-15	12.571	8.413	4.158	17.289.118	12.061	3.648	13.305.378

- **Alimentador A7**

**DEMANDA (kVA)**

	<b>Pronóstico</b>	<b>Data</b>	<b>Diferencia</b>	<b>Diferencia</b>	<b>RMSE</b>
	<b>Aditivo</b>	<b>limpia</b>		<b>al Cuadrado</b>	<b>323</b>
oct-09	848	1.066	218	47.371	<b>MAD</b> <b>305</b>
nov-09	929	943	14	209	
dic-09	732	943	211	44.439	
ene-10	554	1.068	514	264.551	<b>MAD</b> <b>307</b>
feb-10	411	912	501	251.320	
mar-10	424	943	519	269.269	
abr-10	573	1.054	481	230.990	
may-10	632	1.018	386	148.984	
jun-10	814	1.058	244	59.574	
jul-10	798	1.020	222	49.187	
ago-10	639	996	357	127.430	
sep-10	638	748	110	12.054	

	<b>Pronóstico</b>	<b>Diferencia</b>	<b>Diferencia</b>	<b>RMSE</b>
	<b>Multiplicativo</b>		<b>al cuadrado</b>	<b>339</b>
	792	274	75.059	<b>MAD</b> <b>307</b>
	845	98	9.693	
	711	232	53.758	
	594	474	224.977	<b>MAD</b> <b>307</b>
	501	411	168.733	
	514	429	183.638	
	604	450	202.288	
	640	378	142.869	
	757	301	90.407	
	746	274	74.922	
	644	353	124.492	
	644	104	10.844	

oct-10	813	898	85	7.160	751	147	21.499
nov-10	894	898	4	19	801	97	9.407
dic-10	697	898	201	40.310	674	224	50.032
ene-11	519	854	335	112.434	563	291	84.790
feb-11	376	845	469	220.228	475	370	136.861
mar-11	389	864	475	225.509	487	377	141.764
abr-11	538	874	336	112.615	572	302	90.961
may-11	597	902	305	92.995	606	296	87.526
jun-11	779	907	128	16.395	717	190	36.073
jul-11	763	734	29	827	706	28	787
ago-11	604	798	194	37.612	609	189	35.850
sep-11	603	798	195	38.211	609	190	35.915
oct-11	778	881	103	10.523	711	170	28.995
nov-11	859	942	83	6.952	757	185	34.050
dic-11	662	924	262	68.507	638	286	82.080
ene-12	484	890	406	165.062	532	358	128.206
feb-12	341	869	528	279.049	449	420	176.505
mar-12	354	852	498	247.849	460	392	153.274
abr-12	503	914	411	168.549	541	373	139.451
may-12	562	979	417	173.821	572	407	165.417
jun-12	744	1.051	307	94.255	677	374	140.012
jul-12	728	972	244	59.397	667	305	93.271
ago-12	569	972	403	162.045	575	397	158.001
sep-12	568	747	179	32.122	574	173	29.915
oct-12	743	955	212	44.752	670	285	81.189
nov-12	824	955	131	17.251	714	241	58.112
dic-12	627	917	290	83.929	601	316	100.055
ene-13	449	991	542	294.030	501	490	240.031
feb-13	306	864	558	311.607	423	441	194.747
mar-13	319	850	531	281.760	434	416	173.462
abr-13	468	914	446	198.483	509	405	164.239
may-13	527	1.013	486	236.084	538	475	225.228
jun-13	709	902	193	37.240	637	265	70.455
jul-13	693	895	202	40.675	627	268	71.955
ago-13	534	874	340	115.270	540	334	111.558
sep-13	533	811	278	77.312	540	271	73.702
oct-13	708	941	233	54.063	629	312	97.090
nov-13	789	917	128	16.464	670	247	60.813
dic-13	592	816	224	50.029	564	252	63.572
ene-14	414	811	397	157.777	470	341	116.145
feb-14	271	746	475	225.800	397	349	122.135
mar-14	284	768	484	234.040	407	361	130.663
abr-14	434	840	406	165.226	477	363	131.840
may-14	492	859	367	134.580	505	354	125.634
jun-14	674	907	233	54.263	596	311	96.526
jul-14	658	828	170	28.780	587	241	58.122
ago-14	500	900	400	160.385	505	395	155.640
sep-14	498	890	392	153.958	505	386	148.613
oct-14	674	811	137	18.901	589	222	49.395

nov-14	754	874	120	14.467	627	247	61.079
dic-14	557	851	294	86.434	527	324	105.177
ene-15	379	719	341	115.965	439	280	78.416
feb-15	236	753	518	267.815	370	383	146.698
mar-15	249	712	463	214.463	380	333	110.767
abr-15	399	760	362	130.903	445	315	99.407
may-15	457	929	472	222.612	471	458	210.054
jun-15	639	886	247	60.965	556	330	108.859
jul-15	623	886	263	68.966	547	339	114.871
ago-15	465	878	413	170.938	471	407	165.666
sep-15	463	878	415	172.212	470	408	166.308
oct-15	639	733	95	9.015	548	185	34.374
nov-15	719	825	107	11.364	583	242	58.582
dic-15	522	640	118	13.915	490	150	22.539

### ENERGÍA (kWh)

	Pronóstico	Data	Diferencia	Diferencia	RMSE		Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	limpia		al Cuadrado	2.833		Multiplicativo		al cuadrado	2.563
oct-09	8.422	7.432	990	979.215	MAD	7.734	302	90.974	MAD	
nov-09	8.909	8.880	29	815		8.069	811	658.146		
dic-09	5.138	8.361	3.223	10.386.349	5.473	2.888	8.337.941			
ene-10	5.209	8.361	3.152	9.937.119	5.544	2.817	7.934.478			
feb-10	3.863	8.057	4.194	17.587.747	4.553	3.504	12.274.716			
mar-10	4.915	8.516	3.601	12.963.660	5.333	3.183	10.132.695			
abr-10	5.120	9.680	4.560	20.790.636	5.436	4.244	18.008.645			
may-10	6.760	9.135	2.375	5.640.665	6.500	2.635	6.940.775			
jun-10	8.541	9.520	979	957.893	7.693	1.827	3.336.791			
jul-10	7.313	9.523	2.210	4.884.335	6.889	2.634	6.936.960			
ago-10	4.119	8.516	4.397	19.337.634	4.801	3.715	13.804.776			
sep-10	5.379	4.640	739	545.568	5.585	945	893.511			
oct-10	8.144	6.658	1.486	2.207.543	7.389	731	534.878			
nov-10	8.631	8.560	71	5.010	7.708	852	725.535			
dic-10	4.860	7.587	2.727	7.434.122	5.228	2.359	5.564.993			
ene-11	4.931	6.116	1.185	1.404.444	5.295	821	674.698			
feb-11	3.585	7.800	4.215	17.762.411	4.348	3.452	11.918.252			
mar-11	4.638	7.897	3.259	10.622.913	5.091	2.806	7.874.020			
abr-11	4.843	8.160	3.317	11.005.460	5.189	2.971	8.827.849			
may-11	6.482	7.510	1.028	1.056.334	6.203	1.307	1.707.258			
jun-11	8.264	9.840	1.576	2.485.329	7.340	2.500	6.248.171			
jul-11	7.035	4.237	2.798	7.831.558	6.572	2.335	5.453.342			
ago-11	3.841	4.723	882	778.330	4.579	144	20.854			
sep-11	5.101	4.880	221	48.776	5.326	446	198.960			
oct-11	7.866	1.329	6.537	42.738.803	7.045	5.717	32.679.204			
nov-11	8.353	8.240	113	12.771	7.348	892	796.207			
dic-11	4.583	8.052	3.469	12.036.260	4.983	3.069	9.421.820			

ene-12	<b>4.653</b>	5.961	1.308	1.710.511	<b>5.045</b>	916	839.018
feb-12	<b>3.308</b>	7.886	4.578	20.961.016	<b>4.142</b>	3.744	14.017.798
mar-12	<b>4.360</b>	6.839	2.479	6.145.708	<b>4.849</b>	1.990	3.959.891
abr-12	<b>4.565</b>	8.480	3.915	15.328.951	<b>4.941</b>	3.539	12.522.256
may-12	<b>6.204</b>	7.432	1.228	1.506.888	<b>5.906</b>	1.526	2.327.781
jun-12	<b>7.986</b>	10.000	2.014	4.057.265	<b>6.987</b>	3.013	9.075.638
jul-12	<b>6.757</b>	9.987	3.230	10.430.308	<b>6.255</b>	3.732	13.930.413
ago-12	<b>3.563</b>	8.129	4.566	20.848.385	<b>4.357</b>	3.772	14.230.537
sep-12	<b>4.823</b>	6.400	1.577	2.486.676	<b>5.067</b>	1.333	1.777.310
oct-12	<b>7.588</b>	7.587	1	2	<b>6.701</b>	886	785.311
nov-12	<b>8.075</b>	9.280	1.205	1.451.460	<b>6.987</b>	2.293	5.257.048
dic-12	<b>4.305</b>	9.677	5.372	28.859.503	<b>4.737</b>	4.940	24.403.331
ene-13	<b>4.375</b>	5.497	1.122	1.258.071	<b>4.795</b>	702	492.184
feb-13	<b>3.030</b>	8.657	5.627	31.664.176	<b>3.936</b>	4.721	22.285.839
mar-13	<b>4.082</b>	7.277	3.195	10.206.917	<b>4.607</b>	2.670	7.127.973
abr-13	<b>4.287</b>	7.360	3.073	9.443.287	<b>4.694</b>	2.666	7.108.570
may-13	<b>5.927</b>	8.129	2.202	4.850.242	<b>5.609</b>	2.520	6.349.354
jun-13	<b>7.708</b>	9.920	2.212	4.893.113	<b>6.634</b>	3.286	10.794.679
jul-13	<b>6.480</b>	8.206	1.726	2.980.358	<b>5.937</b>	2.269	5.146.613
ago-13	<b>3.285</b>	8.129	4.844	23.462.165	<b>4.135</b>	3.994	15.954.182
sep-13	<b>4.545</b>	4.480	65	4.265	<b>4.808</b>	328	107.344
oct-13	<b>7.310</b>	6.039	1.271	1.616.615	<b>6.357</b>	318	100.842
nov-13	<b>7.797</b>	9.840	2.043	4.171.962	<b>6.627</b>	3.213	10.325.595
dic-13	<b>4.027</b>	8.594	4.567	20.856.364	<b>4.492</b>	4.102	16.830.073
ene-14	<b>4.098</b>	5.806	1.708	2.918.667	<b>4.546</b>	1.260	1.587.947
feb-14	<b>2.752</b>	8.400	5.648	31.898.387	<b>3.730</b>	4.670	21.804.613
mar-14	<b>3.804</b>	6.348	2.544	6.469.897	<b>4.365</b>	1.983	3.931.120
abr-14	<b>4.009</b>	6.400	2.391	5.715.762	<b>4.446</b>	1.954	3.816.945
may-14	<b>5.649</b>	6.271	622	387.008	<b>5.312</b>	959	919.447
jun-14	<b>7.430</b>	9.120	1.690	2.855.461	<b>6.282</b>	2.838	8.056.920
jul-14	<b>6.202</b>	7.484	1.282	1.643.894	<b>5.620</b>	1.864	3.474.059
ago-14	<b>3.007</b>	8.748	5.741	32.953.899	<b>3.913</b>	4.835	23.379.149
sep-14	<b>4.268</b>	4.000	268	71.575	<b>4.548</b>	548	300.772
oct-14	<b>7.033</b>	5.265	1.768	3.124.725	<b>6.012</b>	747	558.444
nov-14	<b>7.520</b>	7.760	240	57.749	<b>6.266</b>	1.494	2.231.640
dic-14	<b>3.749</b>	5.806	2.057	4.229.808	<b>4.246</b>	1.560	2.433.356
ene-15	<b>3.820</b>	5.110	1.290	1.664.573	<b>4.296</b>	814	662.135
feb-15	<b>2.474</b>	5.314	2.840	8.063.547	<b>3.525</b>	1.789	3.201.573
mar-15	<b>3.527</b>	5.342	1.815	3.295.576	<b>4.123</b>	1.219	1.484.948
abr-15	<b>3.731</b>	6.240	2.509	6.292.767	<b>4.199</b>	2.041	4.166.541
may-15	<b>5.371</b>	6.271	900	809.770	<b>5.015</b>	1.256	1.577.446
jun-15	<b>7.152</b>	6.560	592	350.957	<b>5.929</b>	631	398.688
jul-15	<b>5.924</b>	5.574	350	122.558	<b>5.303</b>	271	73.523
ago-15	<b>2.730</b>	7.897	5.167	26.701.210	<b>3.691</b>	4.206	17.691.523
sep-15	<b>3.990</b>	3.360	630	396.600	<b>4.289</b>	929	863.449
oct-15	<b>6.755</b>	4.568	2.187	4.782.603	<b>5.668</b>	1.100	1.210.055
nov-15	<b>7.242</b>	4.960	2.282	5.207.142	<b>5.906</b>	946	894.181
dic-15	<b>3.472</b>	4.568	1.096	1.202.142	<b>4.001</b>	567	321.938

● **Alimentador A68**

**DEMANDA (kVA)**

	Pronóstico	Data	Diferencia	Diferencia	RMSE		Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	limpia		al Cuadrado	5.501		Multiplicativo		al Cuadrado	5.394
oct-09	9.970	6.061	3.909	15.277.070	<b>MAD</b>		7.763	1.702	2.898.094	<b>MAD</b>
nov-09	10.219	6.196	4.023	16.184.651			10.484	4.288	18.391.082	
dic-09	9.715	6.714	3.001	9.004.927	<b>5.403</b>		9.665	2.951	8.707.970	<b>5.234</b>
ene-10	9.622	6.445	3.177	10.091.684			9.517	3.072	9.435.113	
feb-10	9.349	5.606	3.743	14.011.105			9.072	3.466	12.014.971	
mar-10	9.448	6.202	3.246	10.533.698			9.188	2.986	8.913.648	
abr-10	10.162	6.374	3.788	14.351.225			10.313	3.939	15.516.936	
may-10	10.659	6.413	4.246	18.030.733			11.068	4.655	21.666.758	
jun-10	10.797	6.259	4.538	20.596.539			11.257	4.998	24.975.578	
jul-10	10.334	6.202	4.132	17.073.267			10.581	4.379	19.174.890	
ago-10	9.368	5.978	3.390	11.495.123			9.148	3.170	10.050.845	
sep-10	9.528	4.368	5.160	26.620.711			9.363	4.994	24.943.448	
oct-10	10.256	4.902	5.354	28.665.541			7.994	3.092	9.560.468	
nov-10	10.505	5.658	4.847	23.497.741			10.795	5.137	26.390.510	
dic-10	10.001	5.837	4.164	17.341.001			9.951	4.114	16.921.891	
ene-11	9.908	4.986	4.922	24.227.785			9.797	4.811	23.148.458	
feb-11	9.636	4.998	4.638	21.507.081			9.339	4.341	18.845.352	
mar-11	9.734	5.126	4.608	21.233.642			9.457	4.331	18.758.998	
abr-11	10.449	5.754	4.695	22.040.516			10.615	4.861	23.629.679	
may-11	10.946	5.856	5.090	25.904.973			11.391	5.535	30.635.551	
jun-11	11.084	6.310	4.774	22.788.907			11.584	5.274	27.819.875	
jul-11	10.620	3.121	7.499	56.237.971			10.888	7.767	60.328.928	
ago-11	9.655	2.300	7.355	54.091.065			9.413	7.113	50.598.807	
sep-11	9.814	2.552	7.262	52.743.297			9.633	7.082	50.149.008	
oct-11	10.542	4.974	5.568	31.004.490			8.225	3.250	10.564.693	
nov-11	10.792	5.281	5.511	30.369.784			11.106	5.825	33.928.952	
dic-11	10.288	5.997	4.291	18.409.974			10.236	4.239	17.971.818	
ene-12	10.195	5.210	4.985	24.846.282			10.078	4.868	23.696.509	
feb-12	9.922	4.787	5.135	26.368.272			9.606	4.819	23.222.616	
mar-12	10.020	4.845	5.175	26.785.069			9.727	4.882	23.831.566	
abr-12	10.735	4.986	5.749	33.052.893			10.917	5.931	35.175.805	
may-12	11.232	5.805	5.427	29.453.681			11.714	5.909	34.917.720	
jun-12	11.370	6.029	5.341	28.528.466			11.912	5.883	34.613.840	
jul-12	10.907	5.747	5.160	26.623.996			11.196	5.449	29.690.020	
ago-12	9.941	5.747	4.194	17.590.429			9.678	3.931	15.456.501	
sep-12	10.101	4.451	5.649	31.915.605			9.904	5.453	29.733.586	
oct-12	10.829	5.523	5.306	28.152.411			8.455	2.932	8.598.058	
nov-12	11.078	5.971	5.107	26.084.620			11.417	5.446	29.653.942	

dic-12	10.574	5.824	4.750	22.563.605	10.522	4.698	22.071.332
ene-13	10.481	5.299	5.182	26.853.500	10.359	5.060	25.598.819
feb-13	10.208	4.845	5.363	28.766.449	9.873	5.028	25.279.241
mar-13	10.307	5.293	5.014	25.138.804	9.996	4.703	22.121.512
abr-13	11.022	5.619	5.403	29.188.047	11.219	5.600	31.357.783
may-13	11.519	5.261	6.258	39.157.011	12.037	6.776	45.918.302
jun-13	11.657	5.581	6.076	36.913.356	12.240	6.659	44.345.619
jul-13	11.193	5.286	5.907	34.895.913	11.503	6.217	38.655.133
ago-13	10.228	5.107	5.121	26.219.789	9.944	4.837	23.393.353
sep-13	10.387	4.320	6.067	36.808.929	10.175	5.855	34.278.926
oct-13	11.115	5.446	5.669	32.141.147	8.686	3.240	10.496.734
nov-13	11.365	5.645	5.720	32.715.450	11.727	6.082	36.993.525
dic-13	10.861	5.050	5.811	33.762.468	10.808	5.758	33.151.215
ene-14	10.767	4.954	5.813	33.796.411	10.639	5.685	32.320.920
feb-14	10.495	4.557	5.938	35.258.277	10.140	5.583	31.166.630
mar-14	10.593	4.819	5.774	33.342.458	10.266	5.447	29.669.197
abr-14	11.308	4.416	6.892	47.500.050	11.521	7.105	50.476.544
may-14	11.805	5.338	6.467	41.821.934	12.360	7.022	49.315.326
jun-14	11.943	5.741	6.202	38.465.648	12.568	6.827	46.609.956
jul-14	11.480	5.581	5.899	34.794.757	11.811	6.230	38.810.353
ago-14	10.514	5.370	5.144	26.460.304	10.209	4.839	23.414.559
sep-14	10.673	4.144	6.529	42.631.148	10.446	6.301	39.707.148
oct-14	11.402	5.286	6.116	37.402.374	8.916	3.630	13.180.446
nov-14	11.651	5.306	6.345	40.261.232	12.038	6.732	45.318.709
dic-14	11.147	5.530	5.617	31.550.462	11.093	5.563	30.951.472
ene-15	11.054	5.510	5.544	30.734.825	10.920	5.410	29.265.619
feb-15	10.781	4.730	6.051	36.618.229	10.407	5.677	32.223.444
mar-15	10.880	5.184	5.696	32.441.279	10.536	5.352	28.638.943
abr-15	11.594	4.794	6.800	46.246.253	11.823	7.029	49.400.757
may-15	12.091	5.734	6.357	40.416.786	12.684	6.950	48.297.910
jun-15	12.229	5.734	6.495	42.191.518	12.896	7.162	51.294.907
jul-15	11.766	5.734	6.032	36.386.710	12.118	6.384	40.758.851
ago-15	10.800	5.498	5.302	28.115.337	10.474	4.976	24.761.085
sep-15	10.960	5.498	5.462	29.832.349	10.716	5.218	27.230.972
oct-15	11.688	4.525	7.163	51.311.145	9.147	4.622	21.363.903
nov-15	11.938	4.019	7.919	62.704.316	12.349	8.330	69.382.305
dic-15	11.433	4.262	7.171	51.429.143	11.379	7.117	50.653.115

### ENERGÍA (kWh)

	Pronóstico Aditivo	Data limpia	Diferencia	Diferencia al Cuadrado	RMSE
oct-09	94.881	50.168	44.713	1.999.259.700	<b>55.277</b>
nov-09	92.466	67.200	25.266	638.386.247	
dic-09	78.019	64.206	13.813	190.788.863	<b>MAD</b>
ene-10	87.219	49.548	37.671	1.419.101.794	<b>53.217</b>

	Pronóstico Multiplicativo	Diferencia	Diferencia al cuadrado	RMSE
	77.273	27.105	734.697.435	<b>54.663</b>
	90.723	23.523	553.341.260	
	69.707	5.501	30.263.902	<b>MAD</b>
	86.750	37.202	1.383.954.145	<b>51.422</b>

feb-10	94.860	49.829	45.031	2.027.813.753	98.073	48.244	2.327.472.101
mar-10	89.647	54.503	35.144	1.235.090.409	88.459	33.956	1.153.013.713
abr-10	94.078	61.440	32.638	1.065.268.619	96.365	34.925	1.219.767.872
may-10	105.054	54.916	50.138	2.513.784.255	115.515	60.599	3.672.202.800
jun-10	104.302	61.440	42.862	1.837.155.593	114.545	53.105	2.820.165.749
jul-10	96.170	60.284	35.886	1.287.837.514	99.930	39.646	1.571.772.370
ago-10	77.917	55.329	22.588	510.203.181	67.273	11.944	142.666.989
sep-10	82.655	32.000	50.655	2.565.926.759	76.101	44.101	1.944.920.365
oct-10	98.208	36.748	61.460	3.777.362.707	80.172	43.424	1.885.675.559
nov-10	95.793	55.680	40.113	1.609.091.088	94.116	38.436	1.477.346.249
dic-10	81.346	48.929	32.417	1.050.849.265	72.306	23.377	546.494.456
ene-11	90.546	38.194	52.352	2.740.746.417	89.974	51.780	2.681.155.494
feb-11	98.187	46.857	51.330	2.634.812.444	101.707	54.850	3.008.504.692
mar-11	92.974	49.135	43.839	1.921.860.039	91.727	42.592	1.814.052.469
abr-11	97.406	51.627	45.779	2.095.682.430	99.914	48.287	2.331.628.482
may-11	108.381	48.929	59.452	3.534.519.396	119.756	70.827	5.016.415.235
jun-11	107.629	62.293	45.336	2.055.373.221	118.738	56.445	3.186.011.665
jul-11	99.498	31.662	67.836	4.601.709.762	103.576	71.914	5.171.669.365
ago-11	81.244	33.445	47.799	2.284.729.940	69.721	36.276	1.315.926.960
sep-11	85.982	34.560	51.422	2.644.237.380	78.861	44.301	1.962.615.714
oct-11	101.535	13.304	88.232	7.784.833.449	83.071	69.768	4.867.533.112
nov-11	99.121	52.228	46.892	2.198.894.335	97.509	45.281	2.050.372.443
dic-11	84.673	54.090	30.583	935.318.444	74.905	20.815	433.271.640
ene-12	93.873	40.258	53.615	2.874.601.435	93.198	52.940	2.802.666.531
feb-12	101.515	48.000	53.515	2.863.811.905	105.341	57.341	3.287.966.639
mar-12	96.301	45.832	50.469	2.547.139.669	94.994	49.162	2.416.935.090
abr-12	100.733	53.120	47.613	2.266.978.271	103.463	50.343	2.534.387.720
may-12	111.708	46.865	64.843	4.204.614.033	123.997	77.132	5.949.285.190
jun-12	110.956	60.373	50.583	2.558.679.875	122.930	62.557	3.913.415.810
jul-12	102.825	60.490	42.335	1.792.234.889	107.222	46.732	2.183.926.244
ago-12	84.571	50.168	34.403	1.183.567.772	72.168	22.000	484.003.802
sep-12	89.309	37.333	51.976	2.701.537.822	81.622	44.289	1.961.478.889
oct-12	104.863	40.877	63.986	4.094.156.399	85.970	45.093	2.033.423.060
nov-12	102.448	53.973	48.475	2.349.808.156	100.902	46.929	2.202.366.031
dic-12	88.000	58.839	29.161	850.372.521	77.504	18.665	348.387.277
ene-13	97.200	35.290	61.910	3.832.907.632	96.423	61.133	3.737.189.619
feb-13	104.842	50.971	53.871	2.902.059.466	108.975	58.004	3.364.435.018
mar-13	99.628	42.323	57.305	3.283.905.011	98.262	55.939	3.129.168.731
abr-13	104.060	44.587	59.473	3.537.033.725	107.011	62.424	3.896.814.012
may-13	115.035	46.452	68.583	4.703.650.705	128.238	81.786	6.688.878.286
jun-13	114.284	58.667	55.617	3.093.202.451	127.123	68.456	4.686.201.198
jul-13	106.152	44.774	61.378	3.767.254.752	110.869	66.095	4.368.542.779
ago-13	87.898	48.310	39.588	1.567.224.859	74.615	26.305	691.977.503
sep-13	92.636	34.987	57.649	3.323.463.802	84.382	49.395	2.439.841.725
oct-13	108.190	36.955	71.235	5.074.391.935	88.870	51.915	2.695.121.091
nov-13	105.775	59.307	46.468	2.159.274.179	104.295	44.988	2.023.958.664
dic-13	91.327	51.613	39.714	1.577.227.098	80.103	28.490	811.685.374
ene-14	100.528	39.639	60.889	3.707.427.928	99.647	60.008	3.600.947.938
feb-14	108.169	45.714	62.455	3.900.619.209	112.609	66.895	4.474.901.719



mar-14	102.956	37.368	65.588	4.301.725.066	101.530	64.162	4.116.712.518
abr-14	107.387	36.267	71.120	5.058.073.947	110.560	74.293	5.519.484.048
may-14	118.362	41.084	77.278	5.971.941.435	132.479	91.395	8.352.957.575
jun-14	117.611	55.467	62.144	3.861.844.101	131.315	75.848	5.752.974.874
jul-14	109.479	51.200	58.279	3.396.457.859	114.515	63.315	4.008.840.996
ago-14	91.225	53.884	37.341	1.394.377.316	77.063	23.179	537.258.814
sep-14	95.964	32.640	63.324	4.009.886.168	87.142	54.502	2.970.459.458
oct-14	111.517	33.445	78.072	6.095.227.413	91.769	58.324	3.401.644.524
nov-14	109.102	57.387	51.715	2.674.457.980	107.688	50.301	2.530.239.235
dic-14	94.654	48.103	46.551	2.167.041.187	82.702	34.599	1.197.094.247
ene-15	103.855	42.116	61.739	3.811.682.262	102.871	60.755	3.691.199.207
feb-15	111.496	43.200	68.296	4.664.358.438	116.243	73.043	5.335.230.530
mar-15	106.283	42.323	63.960	4.090.844.313	104.797	62.474	3.903.032.127
abr-15	110.714	49.920	60.794	3.695.947.948	114.109	64.189	4.120.226.934
may-15	121.690	48.310	73.380	5.384.552.270	136.719	88.409	7.816.234.279
jun-15	120.938	48.640	72.298	5.226.987.576	135.508	86.868	7.546.032.286
jul-15	112.806	43.974	68.832	4.737.886.695	118.162	74.188	5.503.839.301
ago-15	94.553	54.090	40.463	1.637.216.583	79.510	25.420	646.187.734
sep-15	99.291	46.507	52.784	2.786.133.035	89.902	43.395	1.883.133.765
oct-15	114.844	16.311	98.533	9.708.697.085	94.668	78.356	6.139.708.892
nov-15	112.429	40.107	72.322	5.230.519.862	111.082	70.975	5.037.385.150
dic-15	97.982	39.845	58.137	3.379.871.320	85.301	45.456	2.066.248.575

[ANEXO N° 4]

**Cálculo de la Desviación Media Absoluta (MAD) y del Error Cuadrático Medio (RMSE) para el pronóstico de Demanda y de Energía realizado en estudios previos vs el histórico para Octubre 2009-Diciembre 2015**

✓ **Método de Suavizado Exponencial de Holt-Winters**

- **Alimentador A5-C1**

**DEMANDA (kVA)**

	Pronóstico	Data Limpia	Diferencia en kVA	Diferencia al Cuadrado	RMSE	303
					MAD	264
oct-09	1.421	1534	212	45132		
nov-09	1.371	1534	161	25927		
dic-09	1.368	1534	70	4848		
ene-10	1.443	1534	26	686		
feb-10	1.510	1534	54	2896		
mar-10	1.490	1534	111	12394		
abr-10	1.429	1534	158	25044		
may-10	1.388	1534	168	28184		
jun-10	1.381	1534	148	21923		
jul-10	1.402	1534	128	16452		
ago-10	1.427	1534	130	16934		
sep-10	1.442	1534	164	26836		
oct-10	1.435	1534	203	41197		
nov-10	1.395	1534	189	35593		
dic-10	1.366	1534	111	12285		
ene-11	1.405	1534	39	1546		
feb-11	1.484	1181	317	100724		
mar-11	1.507	1128	322	103670		
abr-11	1.458	1245	151	22726		
may-11	1.404	1274	94	8885		
jun-11	1.382	1299	77	5977		
jul-11	1.392	941	458	209652		
ago-11	1.417	1250	157	24789		
sep-11	1.437	1250	138	19059		
oct-11	1.440	1250	99	9769		
nov-11	1.415	1229	106	11318		
dic-11	1.378	1222	163	26698		
ene-12	1.383	1126	340	115556		
feb-12	1.448	1125	378	143137		
mar-12	1.503	1126	349	121887		
abr-12	1.485	1146	274	74991		
may-12	1.428	1230	149	22126		
jun-12	1.390	1245	126	15888		
jul-12	1.386	1245	144	20741		
ago-12	1.406	1245	161	25834		
sep-12	1.430	1245	154	23867		
oct-12	1.441	1245	123	15096		
nov-12	1.429	1245	95	8941		
dic-12	1.395	1245	114	13075		
ene-13	1.378	1050	380	144341		
feb-13	1.416	1050	442	195429		
mar-13	1.481	1050	443	196251		

abr-13	1.499	1096	350	122382
may-13	1.455	1184	212	44856
jun-13	1.405	1184	189	35558
jul-13	1.386	1184	196	38523
ago-13	1.396	1046	354	125113
sep-13	1.420	971	434	188245
oct-13	1.438	1067	317	100549
nov-13	1.437	1170	182	33085
dic-13	1.412	1054	293	86104
ene-14	1.384	1054	342	117100
feb-14	1.395	1054	413	170773
mar-14	1.452	1054	444	197501
abr-14	1.497	1054	416	173096
may-14	1.479	1125	293	85681
jun-14	1.427	1125	256	65579
jul-14	1.392	1125	250	62695
ago-14	1.390	1122	269	72575
sep-14	1.409	751	654	427163
oct-14	1.431	1048	348	120925
nov-14	1.439	1021	346	119765
dic-14	1.425	1021	327	106616
ene-15	1.397	1021	350	122823
feb-15	1.388	1021	415	172065
mar-15	1.425	1021	468	219308
abr-15	1.480	949	538	289860
may-15	1.492	1094	348	121182
jun-15	1.452	1094	302	91182
jul-15	1.405	1094	282	79598
ago-15	1.389	1094	290	83906
sep-15	1.400	1046	354	125376
oct-15	1.422	616	786	617729
nov-15	1.437	854	527	278167
dic-15	1.433	914	442	194955

### ENERGÍA (kWh)

	Pronóstico	Data Limpia	Diferencia en kWh	Diferencia al Cuadrado	RMSE	2355
					MAD	1936
oct-09	10.226	13.523	3296	10869563		
nov-09	10.863	15.467	4603	21195301		
dic-09	10.809	13.884	3074	9454398		
ene-10	11.759	11.923	163	26881		
feb-10	9.986	11.257	1271	1616520		
mar-10	10.106	11.561	1454	2116018		
abr-10	10.720	14.240	3519	12390085		
may-10	10.383	12.903	2519	6349614		
jun-10	10.270	14.347	4076	16621165		
jul-10	11.615	12.955	1340	1796554		
ago-10	11.700	12.852	1151	1326062		
sep-10	10.613	8.907	1705	2909056		
oct-10	10.018	10.374	355	126655		
nov-10	10.943	12.640	1697	2881271		
dic-10	10.838	10.529	309	95484		
ene-11	11.576	9.600	1976	3904992		
feb-11	10.550	10.457	93	8665		
mar-11	9.719	9.755	35	1286		
abr-11	10.944	11.253	309	95684		
may-11	10.369	11.355	985	971279		
jun-11	10.378	11.520	1142	1304814		
jul-11	11.254	6.830	4423	19569653		
ago-11	12.032	8.877	3154	9952593		
sep-11	10.696	9.173	1523	2319959		
oct-11	10.163	3.565	6597	43532443		
nov-11	10.665	10.977	311	97338		
dic-11	11.143	11.200	57	3251		
ene-12	11.229	8.516	2713	7360860		
feb-12	11.092	9.200	1892	3581281		

mar-12	9.589	8.774	815	664341
abr-12	10.805	11.093	288	83209
may-12	10.671	10.116	555	308443
jun-12	10.219	11.307	1088	1183782
jul-12	11.234	13.471	2237	5005693
ago-12	11.933	11.252	681	464174
sep-12	11.128	8.960	2167	4698481
oct-12	10.042	8.465	1577	2487869
nov-12	10.706	11.093	386	149641
dic-12	11.068	10.890	178	31759
ene-13	11.340	7.123	4217	17784218
feb-13	11.117	9.771	1345	1811016
mar-13	9.959	8.206	1752	3072209
abr-13	10.256	8.960	1295	1679304
may-13	11.181	9.961	1219	1487262
jun-13	10.021	11.147	1125	1267487
jul-13	11.207	9.187	2019	4079029
ago-13	11.858	9.548	2310	5337013
sep-13	11.437	7.947	3489	12180038
oct-13	10.134	7.123	3010	9065275
nov-13	10.538	11.413	874	765399
dic-13	11.181	9.806	1375	1891838
ene-14	11.262	8.413	2849	8116905
feb-14	11.300	9.257	2043	4174361
mar-14	10.152	8.103	2049	4200309
abr-14	10.102	8.533	1569	2461955
may-14	11.141	8.310	2831	8016281
jun-14	10.369	11.840	1470	2163732
jul-14	10.688	9.497	1191	1418987
ago-14	12.178	10.168	2009	4039962
sep-14	11.376	6.560	4815	23191859
oct-14	10.526	8.774	1751	3067855
nov-14	10.204	10.773	569	323850
dic-14	11.355	8.310	3044	9269847
ene-15	11.185	8.465	2719	7396251
feb-15	11.422	8.000	3422	11710058
mar-15	10.387	7.690	2696	7271672
abr-15	10.004	9.760	244	59579
may-15	11.025	8.723	2301	5299119
jun-15	10.693	9.173	1520	2310724
jul-15	10.430	9.652	777	605143
ago-15	12.077	9.858	2219	4925669
sep-15	11.702	7.627	4075	16608843
oct-15	10.554	6.065	4488	20147735
nov-15	10.324	8.213	2110	4455445
dic-15	11.032	8.413	2619	6860347

- **Alimentador A7**

**DEMANDA (kVA)**

	Pronóstico	Data Limpia	Diferencia	Diferencia al Cuadrado	RMSE	9365
					MAD	7192
oct-09	1.359	1066	7402	54795106		
nov-09	1.199	943	5747	33022680		
dic-09	1.480	943	7092	50291812		
ene-10	1.244	1068	3736	13954802		
feb-10	1.253	912	987	974086		
mar-10	1.328	943	176	30831		
abr-10	1.256	1054	281	79028		
may-10	1.311	1018	672	452094		
jun-10	1.225	1058	1640	2688684		
jul-10	1.411	1020	2995	8967720		
ago-10	1.359	996	10385	107855787		
sep-10	1.248	748	5596	31319485		
oct-10	1.257	898	7065	49907286		
nov-10	1.324	898	9259	85724126		
dic-10	1.315	898	6830	46652807		
ene-11	1.422	854	6712	45057635		
feb-11	1.137	845	1290	1664437		

mar-11	1.421	864	751	564368
abr-11	1.226	874	481	231289
may-11	1.342	902	1296	1680758
jun-11	1.242	907	1858	3451856
jul-11	1.369	538	4408	19433630
ago-11	1.424	602	9132	83397525
sep-11	1.248	602	10010	100202272
oct-11	1.275	881	5722	32745699
nov-11	1.315	942	13455	181049628
dic-11	1.346	924	7847	61582267
ene-12	1.394	890	8865	78596226
feb-12	1.231	869	2141	4582537
mar-12	1.280	852	993	986330
abr-12	1.382	914	885	783999
may-12	1.208	979	1202	1444479
jun-12	1.379	1051	2565	6579998
jul-12	1.247	972	3832	14687550
ago-12	1.526	972	10145	102928094
sep-12	1.236	747	12499	156224722
oct-12	1.297	955	7721	59611183
nov-12	1.308	955	11973	143342781
dic-12	1.364	917	13142	172721697
ene-13	1.389	991	7771	60388684
feb-13	1.288	864	4366	19061635
mar-13	1.242	850	806	649892
abr-13	1.406	914	1707	2912984
may-13	1.247	1013	1123	1261057
jun-13	1.321	902	3435	11801978
jul-13	1.335	895	4551	20714881
ago-13	1.394	874	9936	98725193
sep-13	1.397	811	16801	282259241
oct-13	1.175	941	9672	93549788
nov-13	1.416	917	13018	169480507
dic-13	1.285	816	17241	297245676
ene-14	1.462	811	10322	106551630
feb-14	1.277	746	6006	36066133
mar-14	1.278	768	1512	2286670
abr-14	1.353	840	1664	2767446
may-14	1.336	859	2270	5151958
jun-14	1.251	907	2647	7004374
jul-14	1.402	828	6851	46935665
ago-14	1.346	900	8353	69767672
sep-14	1.451	694	21762	473598179
oct-14	1.202	811	12699	161268165
nov-14	1.345	874	14096	198709626
dic-14	1.381	655	21322	454622439
ene-15	1.355	523	14128	199601667
feb-15	1.407	557	7796	60784152
mar-15	1.198	516	2683	7197042
abr-15	1.415	564	2018	4070673
may-15	1.311	929	3010	9062895
jun-15	1.304	886	3118	9724232
jul-15	1.337	886	6735	45357931
ago-15	1.423	878	11136	124020901
sep-15	1.381	878	18202	331318674
oct-15	1.315	537	21309	454093716
nov-15	1.233	629	12287	150961875
dic-15	1.475	444	28248	797952124

### ENERGÍA (kWh)

	Pronóstico	Data limpia	Diferencia en kWh	Diferencia al cuadrado	RMSE	2311
					MAD	1774
oct-09	8.449	7.432	1017	1033278		
nov-09	9.682	8.880	802	643922		
dic-09	8.793	8.361	432	186976		
ene-10	8.488	8.361	127	16131		
feb-10	8.581	8.057	524	274985		
mar-10	9.042	8.516	526	276405		
abr-10	8.684	9.680	996	992571		
may-10	9.084	9.135	51	2571		
jun-10	9.172	9.520	348	121080		
jul-10	9.072	9.523	451	203771		
ago-10	7.827	8.516	689	475001		
sep-10	8.138	4.640	3498	12237407		
oct-10	8.544	6.658	1886	3558354		
nov-10	9.527	8.560	967	935254		
dic-10	8.980	7.587	1393	1941092		
ene-11	8.344	6.116	2228	4961850		
feb-11	8.729	7.800	929	862741		
mar-11	8.885	7.897	988	977068		
abr-11	8.856	8.160	696	484870		
may-11	8.907	7.510	1397	1952125		
jun-11	9.352	9.840	488	238474		

jul-11	8.921	4.237	4685	21946115
ago-11	8.014	4.723	3291	10831934
sep-11	7.950	4.880	3070	9427583
oct-11	8.724	1.329	7395	54691795
nov-11	9.301	8.240	1061	1124847
dic-11	9.222	8.052	1170	1368298
ene-12	8.170	5.961	2209	4881444
feb-12	8.895	7.886	1009	1017203
mar-12	8.731	6.839	1892	3580459
abr-12	9.017	8.480	537	288569
may-12	8.765	7.432	1333	1775730
jun-12	9.486	10.000	514	264644
jul-12	8.833	9.987	1154	1332132
ago-12	8.141	8.129	12	150
sep-12	7.846	6.400	1446	2090002
oct-12	8.806	7.587	1219	1485011
nov-12	9.203	9.280	77	5920
dic-12	9.331	9.677	346	119486
ene-13	8.135	5.497	2638	6956872
feb-13	8.908	8.657	251	62805
mar-13	8.740	7.277	1463	2140179
abr-13	9.008	7.360	1648	2716929
may-13	8.798	8.129	669	447270
jun-13	9.429	9.920	491	241099
jul-13	8.925	8.206	719	517610
ago-13	8.103	8.129	26	697
sep-13	7.907	4.480	3427	11741580
oct-13	8.703	6.039	2664	7099257
nov-13	9.298	9.840	542	293264
dic-13	9.247	8.594	653	426966
ene-14	8.267	5.806	2461	6055300
feb-14	8.744	8.400	344	118378
mar-14	8.913	6.348	2565	6581430
abr-14	8.839	6.400	2439	5948741
may-14	8.978	6.271	2707	7327624
jun-14	9.228	9.120	108	11694
jul-14	9.142	7.484	1658	2750591
ago-14	7.962	8.748	786	617391
sep-14	8.058	4.000	4058	16464938
oct-14	8.518	5.265	3253	10579273
nov-14	9.470	7.760	1710	2924317
dic-14	9.101	5.806	3295	10859425
ene-15	8.446	5.110	3336	11126188
feb-15	8.554	5.314	3240	10496072
mar-15	9.102	5.342	3760	14140641
abr-15	8.677	6.240	2437	5940881
may-15	9.140	6.271	2869	8232667
jun-15	9.071	6.560	2511	6306182
jul-15	9.308	5.574	3734	13940580
ago-15	7.886	7.897	11	130
sep-15	8.139	3.360	4779	22835417
oct-15	8.426	4.568	3858	14884382
nov-15	9.530	4.960	4570	20885862
dic-15	9.077	4.568	4509	20329100

● Alimentador A68

**DEMANDA (kVA)**

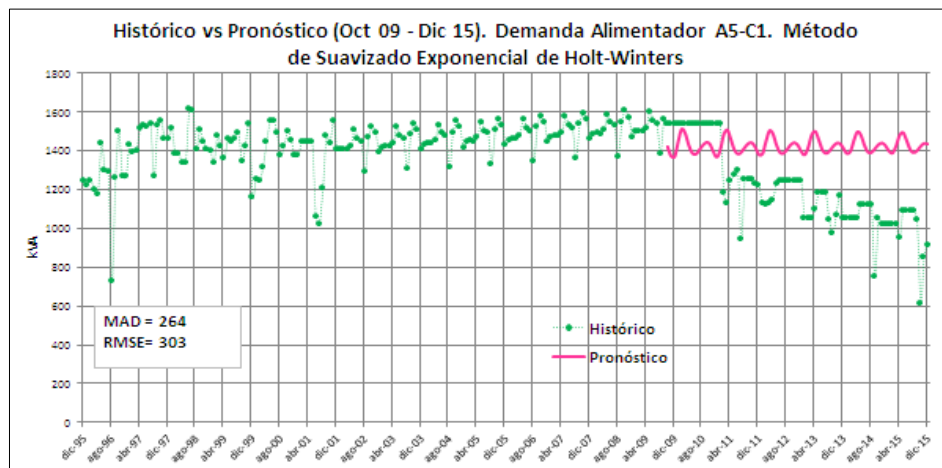
	Pronóstico	Data	Diferencia	Diferencia	RMSE	1889
		Limpia	en kVA	al cuadrado	MAD	1711
oct-09	6.605	6061	705	497601		
nov-09	6.723	6196	1049	1100074		
dic-09	7.199	6714	668	446596		
ene-10	7.354	6445	588	345567		
feb-10	7.049	5606	1203	1447462		
mar-10	6.872	6202	564	317595		
abr-10	6.861	6374	294	86405		
may-10	6.756	6413	386	148896		
jun-10	6.837	6259	935	874668		
jul-10	7.181	6202	1143	1307092		
ago-10	7.309	5978	1081	1167834		
sep-10	7.018	4368	2335	5453620		
oct-10	6.662	4902	1834	3362091		
nov-10	6.692	5658	1507	2270585		
dic-10	7.118	5837	1553	2412613		
ene-11	7.357	4986	2129	4533937		
feb-11	7.122	4998	1845	3404096		
mar-11	6.897	5126	1650	2722967		
abr-11	6.866	5754	943	888628		
may-11	6.787	5856	918	842766		
jun-11	6.821	6310	820	671722		
jul-11	7.123	3121	4224	17840981		

ago-11	7.310	2300	4830	23327788
sep-11	7.088	2552	4215	17770346
oct-11	6.725	4974	1746	3049345
nov-11	6.676	5281	1808	3269409
dic-11	7.042	5997	1380	1904343
ene-12	7.340	5210	1977	3910501
feb-12	7.186	4787	2102	4417922
mar-12	6.935	4845	1942	3770677
abr-12	6.871	4986	1734	3008111
may-12	6.811	5805	956	913653
jun-12	6.815	6029	1040	1080756
jul-12	7.070	5747	1582	2502275
ago-12	7.296	5747	1443	2082660
sep-12	7.148	4451	2384	5681097
oct-12	6.791	5523	1197	1432393
nov-12	6.675	5971	1050	1102227
dic-12	6.973	5824	1523	2319508
ene-13	7.306	5299	1947	3790569
feb-13	7.237	4845	2098	4402739
mar-13	6.980	5293	1508	2274932
abr-13	6.879	5619	1120	1254918
may-13	6.830	5261	1495	2234774
jun-13	6.817	5581	1433	2054132
jul-13	7.024	5286	2014	4056252
ago-13	7.271	5107	2130	4538249
sep-13	7.195	4320	2584	6675412
oct-13	6.859	5446	1286	1654031
nov-13	6.687	5645	1317	1734776
dic-13	6.914	5050	2255	5084520
ene-14	7.262	4954	2335	5450883
feb-14	7.273	4557	2445	5979275
mar-14	7.031	4819	2003	4011347
abr-14	6.892	4416	2338	5468346
may-14	6.843	5338	1418	2011247
jun-14	6.823	5741	1227	1505259
jul-14	6.986	5581	1681	2826806
ago-14	7.238	5370	1900	3611662
sep-14	7.228	4144	2827	7993563
oct-14	6.926	5286	1470	2160158
nov-14	6.710	5306	1608	2586325
dic-14	6.866	5530	1725	2975561
ene-15	7.210	5510	1805	3259110
feb-15	7.293	4730	2332	5437837
mar-15	7.082	5184	1665	2773655
abr-15	6.913	4794	1974	3896276
may-15	6.854	5734	1025	1051331
jun-15	6.831	5734	1196	1429933
jul-15	6.956	5734	1485	2206388
ago-15	7.200	5498	1792	3209601
sep-15	7.248	5498	1538	2364250
oct-15	6.990	4525	2264	5125732
nov-15	6.742	4019	2859	8173303
dic-15	6.829	4262	2939	8638581

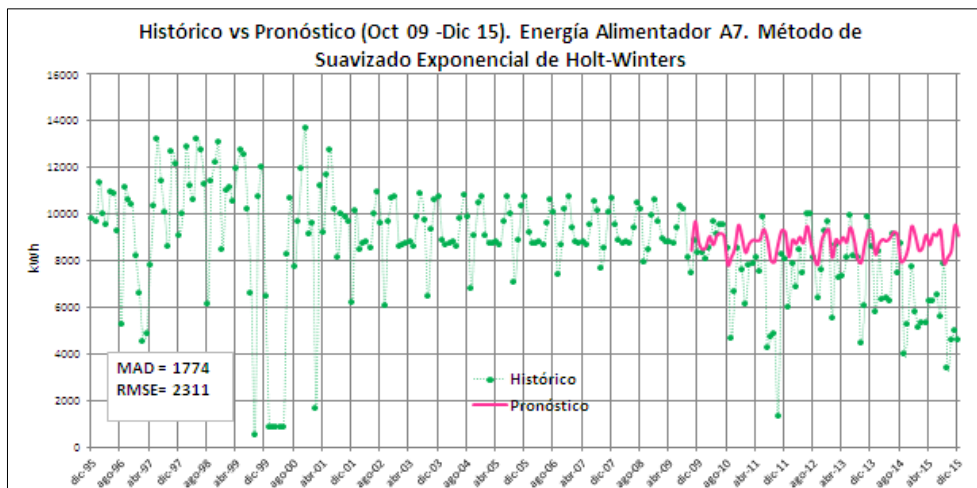
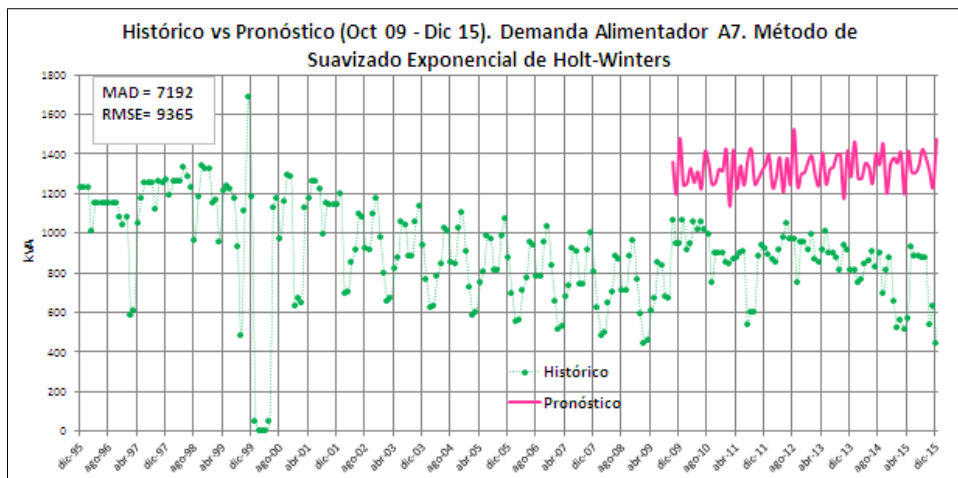
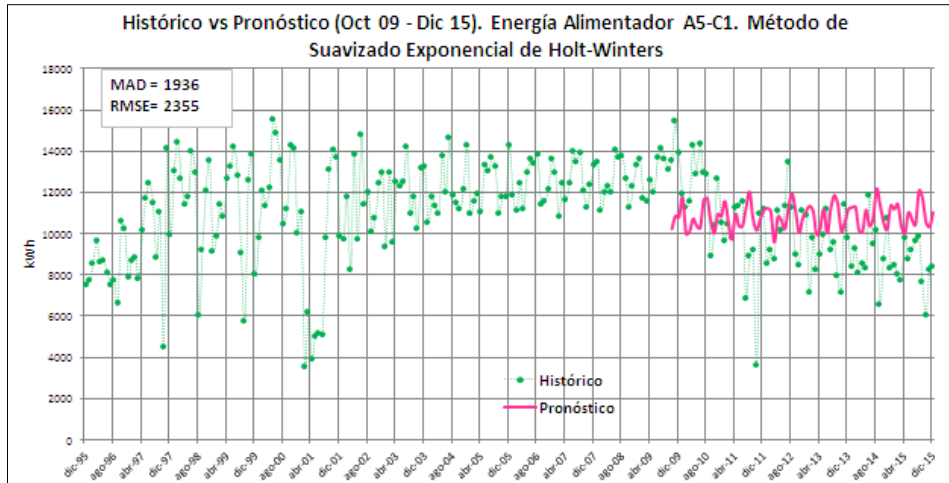
### ENERGÍA (kWh)

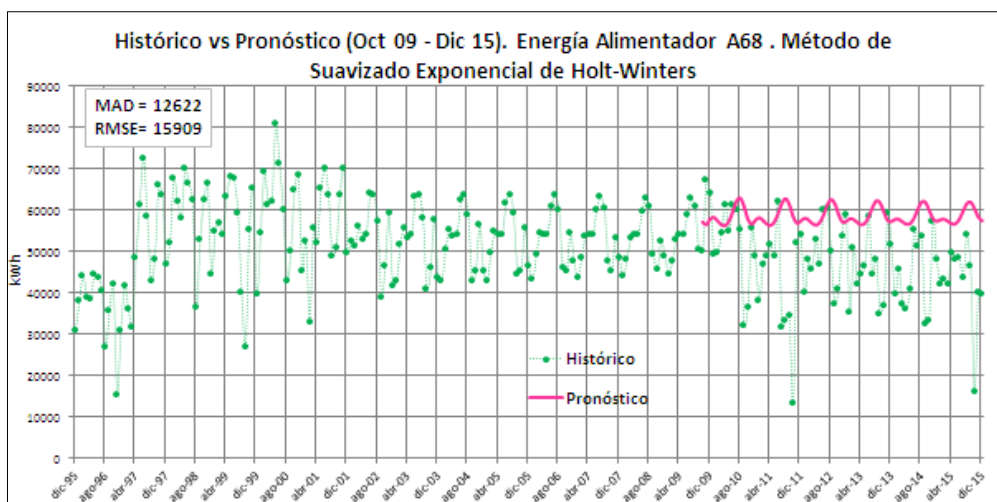
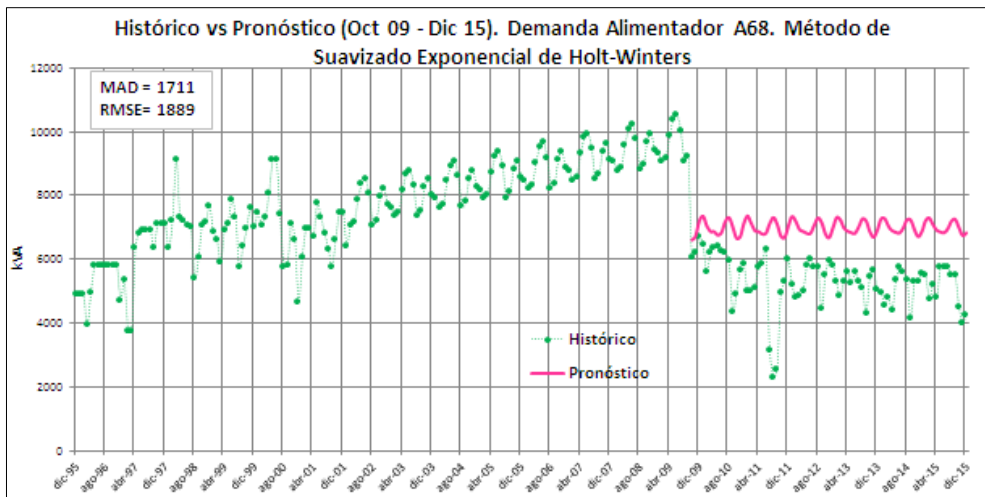
	Pronóstico	Data Limpia	Diferencia en kWh	Diferencia al cuadrado	RMSE	15909
					MAD	12622
oct-09	57.240	50.168	7072	50012692		
nov-09	56.602	67.200	10598	112308728		
dic-09	57.997	64.206	6209	38551630		
ene-10	58.377	49.548	8829	77953992		
feb-10	57.451	49.829	7622	58094010		
mar-10	56.572	54.503	2069	4282694		
abr-10	56.409	61.440	5031	25307068		
may-10	57.507	54.916	2591	6714812		
jun-10	59.800	61.440	1640	2691103		
jul-10	62.359	60.284	2075	4307240		
ago-10	63.017	55.329	7688	59112414		
sep-10	60.949	32.000	28949	838066573		
oct-10	57.877	36.748	21129	446419488		
nov-10	56.730	55.680	1050	1102349		
dic-10	57.718	48.929	8789	77248051		
ene-11	58.301	38.194	20107	404296495		
feb-11	57.636	46.857	10779	116190836		
mar-11	56.748	49.135	7613	57960238		
abr-11	56.442	51.627	4815	23184253		
may-11	57.288	48.929	8359	69868096		
jun-11	59.341	62.293	2952	8713757		
jul-11	61.847	31.662	30186	911176409		
ago-11	62.886	33.445	29441	866763394		
sep-11	61.363	34.560	26803	718400570		
oct-11	58.491	13.304	45187	2041907271		
nov-11	56.959	52.228	4731	22382282		
dic-11	57.520	54.090	3430	11768023		

ene-12	58.185	40.258	17927	321360040
feb-12	57.769	48.000	9769	95436748
mar-12	56.926	45.832	11094	123071662
abr-12	56.503	53.120	3383	11446278
may-12	57.119	46.865	10254	105135731
jun-12	58.930	60.373	1443	2081046
jul-12	61.346	60.490	856	733000
ago-12	62.678	50.168	12510	156504115
sep-12	61.668	37.333	24335	592171082
oct-12	59.066	40.877	18189	330823364
nov-12	57.266	53.973	3293	10841573
dic-12	57.408	58.839	1431	2047136
ene-13	58.052	35.290	22762	518095227
feb-13	57.852	50.971	6881	47351495
mar-13	57.094	42.323	14771	218195679
abr-13	56.588	44.587	12001	144017789
may-13	56.996	46.452	10544	111165482
jun-13	58.568	58.667	99	9792
jul-13	60.863	44.774	16089	258856140
ago-13	62.412	48.310	14102	198859614
sep-13	61.870	34.987	26883	722678729
oct-13	59.586	36.955	22631	512160051
nov-13	57.626	59.307	1681	2826993
dic-13	57.380	51.613	5767	33254893
ene-14	57.923	39.639	18284	334304945
feb-14	57.892	45.714	12178	148306968
mar-14	57.246	37.368	19878	395135160
abr-14	56.689	36.267	20422	417061456
may-14	56.914	41.084	15830	250587369
jun-14	58.254	55.467	2787	7764800
jul-14	60.404	51.200	9204	84713892
ago-14	62.102	53.884	8218	67535668
sep-14	61.978	32.640	29338	860724082
oct-14	60.043	33.445	26598	707437625
nov-14	58.018	57.387	631	397779
dic-14	57.429	48.103	9326	86972246
ene-15	57.814	42.116	15698	246438112
feb-15	57.898	43.200	14698	216040301
mar-15	57.375	42.323	15052	226569704
abr-15	56.800	49.920	6880	47340832
may-15	56.869	48.310	8559	73256101
jun-15	57.986	48.640	9346	87340643
jul-15	59.974	43.974	16000	255997434
ago-15	61.762	54.090	7672	58865875
sep-15	62.003	46.507	15496	240122339
oct-15	60.430	16.311	44118	1946432510
nov-15	58.423	40.107	18316	335464792
dic-15	57.547	39.845	17702	313348499









✓ Método de Descomposición según el Modelo Aditivo y Método de Descomposición según el Modelo Multiplicativo

● Alimentador A5-C1

DEMANDA (kVA)

	Pronóstico	Data	Diferencia	Diferencia	RMSE	Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	limpia		al Cuadrado	262	Multiplicativo		al cuadrado	264
oct-09	1.335	1.534	199	39.567	<b>MAD</b> <b>226</b>	1.341	193	37.228	<b>MAD</b> <b>226</b>
nov-09	1.350	1.534	184	33.904		1.357	177	31.419	
dic-09	1.285	1.534	249	61.791	1.287	247	61.018		
ene-10	1.230	1.534	304	92.662	1.224	310	96.169		
feb-10	1.247	1.534	287	82.094	1.242	292	85.368		
mar-10	1.148	1.534	386	148.987	1.131	403	162.455		
abr-10	1.308	1.534	226	51.130	1.310	224	50.142		
may-10	1.362	1.534	172	29.488	1.370	164	26.771		
jun-10	1.353	1.534	181	32.588	1.361	173	29.980		
jul-10	1.330	1.534	204	41.665	1.335	199	39.736		
ago-10	1.195	1.534	339	114.947	1.186	348	121.036		
sep-10	1.297	1.534	237	56.067	1.298	236	55.677		
oct-10	1.346	1.534	188	35.233	1.353	181	32.837		
nov-10	1.361	1.534	173	29.901	1.369	165	27.354		
dic-10	1.297	1.534	237	56.344	1.298	236	55.588		
ene-11	1.241	1.534	293	85.963	1.235	299	89.655		
feb-11	1.259	1.496	237	56.275	1.253	243	59.173		
mar-11	1.159	1.443	284	80.482	1.141	302	91.270		
abr-11	1.319	1.560	241	57.996	1.321	238	56.846		
may-11	1.373	1.589	215	46.407	1.382	207	42.684		
jun-11	1.365	1.614	249	62.113	1.373	241	58.187		
jul-11	1.341	1.256	86	7.320	1.346	91	8.232		
ago-11	1.206	1.565	359	128.696	1.196	369	135.801		
sep-11	1.308	1.565	256	65.787	1.309	256	65.333		
oct-11	1.358	1.565	207	43.018	1.365	200	40.155		
nov-11	1.372	1.544	172	29.455	1.380	163	26.712		
dic-11	1.308	1.537	229	52.474	1.309	227	51.728		
ene-12	1.252	1.441	189	35.683	1.245	196	38.279		
feb-12	1.270	1.440	170	28.905	1.263	176	31.124		
mar-12	1.170	1.441	270	73.161	1.151	290	84.244		
abr-12	1.330	1.461	131	17.060	1.333	128	16.386		
may-12	1.385	1.545	160	25.669	1.394	151	22.701		
jun-12	1.376	1.560	184	33.861	1.385	175	30.758		
jul-12	1.352	1.560	208	43.104	1.358	202	40.822		
ago-12	1.217	1.560	343	117.329	1.207	353	124.755		
sep-12	1.320	1.560	240	57.734	1.321	239	57.281		

oct-12	1.369	1.560	191	36.557	1.376	184	33.728
nov-12	1.383	1.560	176	31.122	1.392	168	28.081
dic-12	1.319	1.560	241	58.015	1.321	239	57.213
ene-13	1.263	1.365	102	10.341	1.256	109	11.873
feb-13	1.281	1.365	84	7.023	1.274	91	8.205
mar-13	1.182	1.365	183	33.589	1.161	204	41.774
abr-13	1.342	1.411	69	4.817	1.344	67	4.435
may-13	1.396	1.499	103	10.610	1.406	93	8.600
jun-13	1.387	1.499	112	12.500	1.396	103	10.514
jul-13	1.364	1.499	135	18.334	1.369	129	16.755
ago-13	1.229	1.361	132	17.509	1.217	144	20.708
sep-13	1.331	1.286	45	2.019	1.332	46	2.110
oct-13	1.380	1.382	2	4	1.388	6	37
nov-13	1.395	1.485	90	8.137	1.404	81	6.514
dic-13	1.330	1.369	39	1.494	1.332	37	1.365
ene-14	1.274	1.369	94	8.926	1.267	102	10.460
feb-14	1.292	1.369	77	5.867	1.285	84	7.014
mar-14	1.193	1.369	176	30.998	1.170	199	39.412
abr-14	1.353	1.369	16	262	1.356	13	174
may-14	1.407	1.440	33	1.075	1.418	22	475
jun-14	1.398	1.440	42	1.730	1.408	32	1.005
jul-14	1.375	1.440	65	4.250	1.381	59	3.462
ago-14	1.240	1.437	197	38.854	1.227	210	43.931
sep-14	1.342	1.066	276	76.186	1.343	277	76.775
oct-14	1.391	1.363	28	796	1.400	37	1.356
nov-14	1.406	1.336	70	4.901	1.416	80	6.425
dic-14	1.341	1.336	6	31	1.343	7	53
ene-15	1.286	1.336	50	2.527	1.277	59	3.433
feb-15	1.304	1.336	32	1.049	1.296	40	1.593
mar-15	1.204	1.336	132	17.385	1.180	156	24.231
abr-15	1.364	1.264	100	10.003	1.367	103	10.658
may-15	1.418	1.409	9	89	1.430	21	446
jun-15	1.410	1.409	1	0	1.420	11	124
jul-15	1.386	1.409	23	528	1.393	16	263
ago-15	1.251	1.409	158	24.933	1.238	171	29.341
sep-15	1.353	1.361	8	59	1.354	7	43
oct-15	1.402	931	471	222.133	1.411	480	230.819
nov-15	1.417	1.169	248	61.611	1.428	259	67.092
dic-15	1.353	1.229	124	15.318	1.354	126	15.762

## ENERGÍA (kWh)

	Pronóstico	Data	Diferencia	Diferencia	RMSE	Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	Limpia		al Cuadrado	6.576	Multiplicativo		al cuadrado	6.620
oct-09	16.005	13.523	2.482	6.158.454	<b>MAD</b> <b>6.060</b>	16.321	2.798	7.827.333	<b>MAD</b> <b>6.074</b>
nov-09	16.177	15.467	710	504.549		16.605	1.138	1.294.965	
dic-09	14.317	13.884	433	187.362	14.075	191	36.510		
ene-10	13.741	11.923	1.818	3.306.051	13.286	1.363	1.857.867		
feb-10	14.612	11.257	3.355	11.255.775	14.452	3.195	10.208.583		
mar-10	14.703	11.561	3.142	9.870.023	14.633	3.072	9.435.133		
abr-10	14.587	14.240	347	120.703	14.516	276	76.310		
may-10	15.575	12.903	2.672	7.141.983	15.865	2.962	8.771.698		
jun-10	15.840	14.347	1.493	2.228.966	16.176	1.829	3.346.040		
jul-10	15.281	12.955	2.326	5.410.208	15.393	2.438	5.946.065		
ago-10	14.556	12.852	1.704	2.904.026	14.320	1.468	2.153.983		
sep-10	14.789	8.907	5.882	34.597.893	14.558	5.651	31.930.161		
oct-10	16.370	10.374	5.996	35.950.106	16.723	6.349	40.307.733		
nov-10	16.543	12.640	3.903	15.229.769	17.013	4.373	19.125.139		
dic-10	14.682	10.529	4.153	17.247.994	14.420	3.891	15.143.234		
ene-11	14.106	9.600	4.506	20.308.295	13.611	4.011	16.091.051		
feb-11	14.977	10.457	4.520	20.432.029	14.805	4.348	18.907.264		
mar-11	15.068	9.755	5.313	28.226.659	14.990	5.235	27.400.130		
abr-11	14.953	11.253	3.700	13.687.338	14.870	3.617	13.079.302		
may-11	15.941	11.355	4.586	21.028.336	16.250	4.895	23.961.338		
jun-11	16.205	11.520	4.685	21.951.002	16.568	5.048	25.485.513		
jul-11	15.646	6.830	8.816	77.723.532	15.766	8.936	79.847.115		
ago-11	14.921	8.877	6.044	36.534.021	14.665	5.788	33.504.952		
sep-11	15.154	9.173	5.981	35.774.931	14.908	5.735	32.895.037		
oct-11	16.735	3.565	13.170	173.451.986	17.125	13.560	183.873.493		
nov-11	16.908	10.977	5.930	35.169.156	17.421	6.444	41.526.450		
dic-11	15.047	11.200	3.847	14.801.625	14.766	3.566	12.714.827		
ene-12	14.472	8.516	5.956	35.470.244	13.937	5.421	29.383.927		
feb-12	15.342	9.200	6.142	37.729.050	15.158	5.958	35.502.643		
mar-12	15.433	8.774	6.659	44.343.536	15.346	6.572	43.195.922		
abr-12	15.318	11.093	4.225	17.849.423	15.223	4.130	17.055.427		
may-12	16.306	10.116	6.190	38.314.663	16.635	6.519	42.502.038		
jun-12	16.570	11.307	5.263	27.703.455	16.960	5.653	31.961.125		
jul-12	16.011	13.471	2.540	6.453.735	16.138	2.667	7.113.969		
ago-12	15.287	11.252	4.035	16.277.637	15.011	3.759	14.130.434		
sep-12	15.519	8.960	6.559	43.026.153	15.259	6.299	39.679.431		
oct-12	17.100	8.465	8.635	74.567.987	17.527	9.062	82.120.517		
nov-12	17.273	11.093	6.180	38.192.012	17.830	6.737	45.383.917		
dic-12	15.413	10.890	4.523	20.453.056	15.111	4.221	17.818.026		
ene-13	14.837	7.123	7.714	59.504.370	14.262	7.139	50.965.656		
feb-13	15.708	9.771	5.937	35.243.400	15.512	5.741	32.954.150		

mar-13	15.798	8.206	7.592	57.643.198	15.703	7.497	56.208.122
abr-13	15.683	8.960	6.723	45.199.741	15.576	6.616	43.772.933
may-13	16.671	9.961	6.710	45.025.461	17.021	7.060	49.839.158
jun-13	16.936	11.147	5.789	33.508.176	17.353	6.206	38.508.433
jul-13	16.377	9.187	7.190	51.690.892	16.511	7.324	53.634.766
ago-13	15.652	9.548	6.104	37.256.044	15.357	5.809	33.741.550
sep-13	15.885	7.947	7.938	63.006.285	15.610	7.663	58.720.079
oct-13	17.465	7.123	10.342	106.967.167	17.929	10.806	116.772.601
nov-13	17.638	11.413	6.225	38.752.943	18.238	6.825	46.580.940
dic-13	15.778	9.806	5.972	35.661.476	15.456	5.650	31.928.095
ene-14	15.202	8.413	6.789	46.092.219	14.587	6.174	38.122.630
feb-14	16.073	9.257	6.816	46.455.576	15.865	6.608	43.662.117
mar-14	16.164	8.103	8.061	64.972.132	16.060	7.957	63.314.720
abr-14	16.048	8.533	7.515	56.479.625	15.929	7.396	54.706.756
may-14	17.036	8.310	8.726	76.148.642	17.406	9.096	82.737.438
jun-14	17.301	11.840	5.461	29.820.798	17.745	5.905	34.864.485
jul-14	16.742	9.497	7.245	52.487.929	16.883	7.386	54.552.250
ago-14	16.017	10.168	5.849	34.210.689	15.702	5.534	30.630.120
sep-14	16.250	6.560	9.690	93.893.529	15.961	9.401	88.372.116
oct-14	17.831	8.774	9.057	82.024.010	18.331	9.557	91.340.783
nov-14	18.003	10.773	7.230	52.278.737	18.646	7.873	61.988.656
dic-14	16.143	8.310	7.833	61.354.957	15.802	7.492	56.127.814
ene-15	15.567	8.465	7.102	50.443.270	14.913	6.448	41.572.600
feb-15	16.438	8.000	8.438	71.200.692	16.218	8.218	67.533.760
mar-15	16.529	7.690	8.839	78.123.445	16.417	8.727	76.158.817
abr-15	16.414	9.760	6.654	44.269.199	16.283	6.523	42.545.504
may-15	17.402	8.723	8.679	75.316.994	17.791	9.068	82.234.771
jun-15	17.666	9.173	8.493	72.132.063	18.137	8.964	80.348.184
jul-15	17.107	9.652	7.455	55.578.111	17.255	7.603	57.810.521
ago-15	16.382	9.858	6.524	42.565.289	16.048	6.190	38.317.948
sep-15	16.615	7.627	8.988	80.785.670	16.311	8.684	75.418.562
oct-15	18.196	6.065	12.131	147.159.421	18.733	12.668	160.486.767
nov-15	18.369	8.213	10.156	103.136.641	19.055	10.842	117.539.248
dic-15	16.508	8.413	8.095	65.531.583	16.147	7.734	59.817.920

- **Alimentador A7**

**DEMANDA (kVA)**

	Pronóstico	Data	Diferencia	Diferencia	RMSE	Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	Limpia		al Cuadrado	490				Multiplicativo
oct-09	1.335	1.066	269	72.407	<b>MAD</b>	1.341	275	75.655	<b>MAD</b>
nov-09	1.350	943	407	165.543		1.357	414	171.185	
dic-09	1.285	943	342	117.253		1.287	344	118.324	

ene-10	1.230	1.068	162	26.113
feb-10	1.247	912	335	112.547
mar-10	1.148	943	205	42.030
abr-10	1.308	1.054	254	64.455
may-10	1.362	1.018	344	118.529
jun-10	1.353	1.058	295	87.308
jul-10	1.330	1.020	310	96.026
ago-10	1.195	996	199	39.443
sep-10	1.297	748	550	302.031
oct-10	1.346	898	448	200.969
nov-10	1.361	898	463	214.443
dic-10	1.297	898	399	158.907
ene-11	1.241	854	387	149.618
feb-11	1.259	845	414	171.139
mar-11	1.159	864	295	87.155
abr-11	1.319	874	445	198.105
may-11	1.373	902	471	222.303
jun-11	1.365	907	458	209.480
jul-11	1.341	734	607	367.953
ago-11	1.206	798	408	166.312
sep-11	1.308	798	510	260.168
oct-11	1.358	881	477	227.057
nov-11	1.372	942	430	185.149
dic-11	1.308	924	384	147.334
ene-12	1.252	890	362	131.055
feb-12	1.270	869	401	160.720
mar-12	1.170	852	318	101.398
abr-12	1.330	914	416	173.305
may-12	1.385	979	406	164.592
jun-12	1.376	1.051	325	105.560
jul-12	1.352	972	380	144.628
ago-12	1.217	972	245	60.212
sep-12	1.320	747	572	327.749
oct-12	1.369	955	414	171.160
nov-12	1.383	955	428	183.612
dic-12	1.319	917	402	161.645
ene-13	1.263	991	272	74.106
feb-13	1.281	864	417	173.980
mar-13	1.182	850	332	109.985
abr-13	1.342	914	428	182.764
may-13	1.396	1.013	383	146.620
jun-13	1.387	902	485	235.331
jul-13	1.364	895	469	219.501
ago-13	1.229	874	355	125.735
sep-13	1.331	811	520	270.238
oct-13	1.380	941	439	192.655
nov-13	1.395	917	478	228.206
dic-13	1.330	816	514	264.464

465
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1.224	156	24.301
1.242	330	108.783
1.131	188	35.322
1.310	256	65.575
1.370	352	124.173
1.361	303	91.720
1.335	315	99.012
1.186	190	36.000
1.298	550	302.940
1.353	455	206.835
1.369	471	221.474
1.298	400	160.183
1.235	381	144.838
1.253	408	166.185
1.141	277	76.621
1.321	447	200.248
1.382	480	230.701
1.373	466	216.871
1.346	612	374.259
1.196	398	158.439
1.309	511	261.072
1.365	484	233.798
1.380	438	192.261
1.309	385	148.591
1.245	355	126.212
1.263	394	155.626
1.151	299	89.201
1.333	419	175.482
1.394	415	172.429
1.385	334	111.245
1.358	386	148.896
1.207	235	55.087
1.321	573	328.832
1.376	421	177.463
1.392	437	191.266
1.321	404	162.991
1.256	265	70.199
1.274	410	168.371
1.161	311	96.427
1.344	430	185.176
1.406	393	154.589
1.396	494	244.407
1.369	474	225.126
1.217	343	117.657
1.332	521	271.283
1.388	447	199.808
1.404	487	237.369
1.332	516	266.223

465
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ene-14	1.274	811	463	214.771	1.267	456	207.606
feb-14	1.292	746	546	298.465	1.285	539	290.701
mar-14	1.193	768	425	180.498	1.170	402	161.916
abr-14	1.353	840	513	262.881	1.356	516	265.984
may-14	1.407	859	548	300.435	1.418	559	312.603
jun-14	1.398	907	491	241.395	1.408	501	251.217
jul-14	1.375	828	547	298.902	1.381	553	305.895
ago-14	1.240	900	340	115.464	1.227	327	107.136
sep-14	1.342	890	452	204.029	1.343	453	204.992
oct-14	1.391	811	580	336.556	1.400	589	346.609
nov-14	1.406	874	532	282.938	1.416	542	293.840
dic-14	1.341	851	490	240.211	1.343	492	241.923
ene-15	1.286	719	566	320.680	1.277	558	311.328
feb-15	1.304	753	550	302.689	1.296	543	294.464
mar-15	1.204	712	492	241.771	1.180	468	218.923
abr-15	1.364	760	604	364.298	1.367	607	368.198
may-15	1.418	929	489	239.443	1.430	501	251.042
jun-15	1.410	886	524	274.083	1.420	534	285.216
jul-15	1.386	886	500	249.929	1.393	507	256.727
ago-15	1.251	878	373	139.137	1.238	360	129.328
sep-15	1.353	878	475	225.875	1.354	476	226.945
oct-15	1.402	733	669	447.355	1.411	678	459.648
nov-15	1.417	825	592	350.193	1.428	603	363.099
dic-15	1.353	640	712	507.404	1.354	714	509.944

### ENERGÍA (kWh)

	Pronóstico	Data	Diferencia	Diferencia	RMSE	Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	Limpia		al Cuadrado	4.728	Multiplicativo		al cuadrado	4.744
oct-09	12.276	7.432	4.844	23.463.218	<b>MAD</b> 4.312	12.377	4.945	24.450.905	<b>MAD</b> 4.317
nov-09	11.917	8.880	3.037	9.225.818		11.992	3.112	9.683.167	
dic-09	10.675	8.361	2.314	5.355.692	10.630	2.269	5.150.504		
ene-10	10.153	8.361	1.792	3.213.037	10.058	1.697	2.878.706		
feb-10	10.506	8.057	2.449	5.997.284	10.423	2.366	5.596.896		
mar-10	10.816	8.516	2.300	5.290.061	10.763	2.247	5.049.142		
abr-10	11.400	9.680	1.720	2.958.602	11.410	1.730	2.994.305		
may-10	12.385	9.135	3.250	10.563.485	12.496	3.361	11.299.196		
jun-10	12.553	9.520	3.033	9.197.332	12.680	3.160	9.986.258		
jul-10	11.152	9.523	1.629	2.652.496	11.142	1.619	2.620.983		
ago-10	10.345	8.516	1.829	3.346.570	10.258	1.742	3.034.409		
sep-10	10.915	4.640	6.275	39.380.362	10.884	6.244	38.991.679		
oct-10	12.362	6.658	5.704	32.540.208	12.472	5.814	33.807.575		
nov-10	12.004	8.560	3.444	11.860.593	12.084	3.524	12.421.300		
dic-10	10.762	7.587	3.175	10.079.068	10.713	3.126	9.768.840		
ene-11	10.240	6.116	4.124	17.007.480	10.135	4.019	16.154.344		



feb-11	10.592	7.800	2.792	7.797.794	10.503	2.703	7.306.814
mar-11	10.903	7.897	3.006	9.033.218	10.846	2.949	8.696.217
abr-11	11.487	8.160	3.327	11.066.112	11.498	3.338	11.143.856
may-11	12.472	7.510	4.962	24.618.164	12.593	5.083	25.832.431
jun-11	12.639	9.840	2.799	7.835.679	12.778	2.938	8.629.426
jul-11	11.238	4.237	7.001	49.020.784	11.228	6.991	48.872.225
ago-11	10.432	4.723	5.709	32.591.326	10.337	5.614	31.513.823
sep-11	11.002	4.880	6.122	37.477.602	10.968	6.088	37.061.914
oct-11	12.449	1.329	11.120	123.663.411	12.568	11.240	126.327.610
nov-11	12.090	8.240	3.850	14.825.881	12.177	3.937	15.499.924
dic-11	10.848	8.052	2.796	7.819.141	10.795	2.743	7.521.616
ene-12	10.327	5.961	4.366	19.057.857	10.213	4.252	18.077.959
feb-12	10.679	7.886	2.793	7.800.687	10.583	2.697	7.276.224
mar-12	10.989	6.839	4.150	17.222.907	10.929	4.090	16.726.792
abr-12	11.573	8.480	3.093	9.567.234	11.586	3.106	9.647.714
may-12	12.558	7.432	5.126	26.277.797	12.689	5.257	27.632.845
jun-12	12.726	10.000	2.726	7.429.692	12.875	2.875	8.266.043
jul-12	11.325	9.987	1.338	1.789.399	11.313	1.326	1.758.682
ago-12	10.518	8.129	2.389	5.709.229	10.415	2.286	5.227.988
sep-12	11.088	6.400	4.688	21.981.218	11.051	4.651	21.635.221
oct-12	12.535	7.587	4.948	24.487.042	12.664	5.077	25.773.019
nov-12	12.177	9.280	2.897	8.392.360	12.270	2.990	8.937.720
dic-12	10.935	9.677	1.258	1.582.037	10.877	1.200	1.439.037
ene-13	10.413	5.497	4.916	24.167.532	10.290	4.793	22.976.588
feb-13	10.765	8.657	2.108	4.445.725	10.664	2.007	4.027.181
mar-13	11.076	7.277	3.799	14.429.111	11.012	3.735	13.948.323
abr-13	11.660	7.360	4.300	18.486.667	11.674	4.314	18.609.840
may-13	12.645	8.129	4.516	20.391.595	12.785	4.656	21.676.744
jun-13	12.812	9.920	2.892	8.365.192	12.973	3.053	9.318.105
jul-13	11.411	8.206	3.205	10.273.320	11.399	3.193	10.193.700
ago-13	10.605	8.129	2.476	6.130.165	10.494	2.365	5.594.367
sep-13	11.175	4.480	6.695	44.822.103	11.135	6.655	44.287.502
oct-13	12.622	6.039	6.583	43.335.312	12.759	6.720	45.163.185
nov-13	12.263	9.840	2.423	5.873.230	12.362	2.522	6.361.543
dic-13	11.021	8.594	2.427	5.891.827	10.959	2.365	5.591.526
ene-14	10.500	5.806	4.694	22.029.565	10.368	4.562	20.811.494
feb-14	10.852	8.400	2.452	6.012.337	10.744	2.344	5.494.896
mar-14	11.162	6.348	4.814	23.175.413	11.095	4.747	22.530.691
abr-14	11.746	6.400	5.346	28.581.110	11.762	5.362	28.748.339
may-14	12.731	6.271	6.460	41.734.484	12.881	6.610	43.691.609
jun-14	12.899	9.120	3.779	14.279.193	13.070	3.950	15.602.827
jul-14	11.498	7.484	4.014	16.109.948	11.484	4.000	16.002.892
ago-14	10.691	8.748	1.943	3.776.940	10.573	1.825	3.330.637
sep-14	11.261	4.000	7.261	52.728.642	11.218	7.218	52.105.349
oct-14	12.708	5.265	7.443	55.405.307	12.855	7.590	57.608.078
nov-14	12.350	7.760	4.590	21.068.033	12.455	4.695	22.041.313
dic-14	11.108	5.806	5.302	28.109.364	11.041	5.235	27.401.905
ene-15	10.586	5.110	5.476	29.987.499	10.446	5.336	28.467.915
feb-15	10.939	5.314	5.625	31.635.278	10.824	5.510	30.365.119

mar-15	11.249	5.342	5.907	34.887.957	11.178	5.836	34.053.711
abr-15	11.833	6.240	5.593	31.277.714	11.850	5.610	31.467.424
may-15	12.818	6.271	6.547	42.859.819	12.977	6.706	44.971.732
jun-15	12.985	6.560	6.425	41.284.479	13.168	6.608	43.659.395
jul-15	11.584	5.574	6.010	36.122.959	11.570	5.996	35.951.604
ago-15	10.778	7.897	2.881	8.299.890	10.652	2.755	7.588.732
sep-15	11.348	3.360	7.988	63.807.616	11.302	7.942	63.074.116
oct-15	12.795	4.568	8.227	67.683.398	12.951	8.383	70.268.673
nov-15	12.437	4.960	7.477	55.898.212	12.547	7.587	57.569.025
dic-15	11.194	4.568	6.626	43.908.439	11.123	6.555	42.964.421

- Alimentador A68

### DEMANDA (kVA)

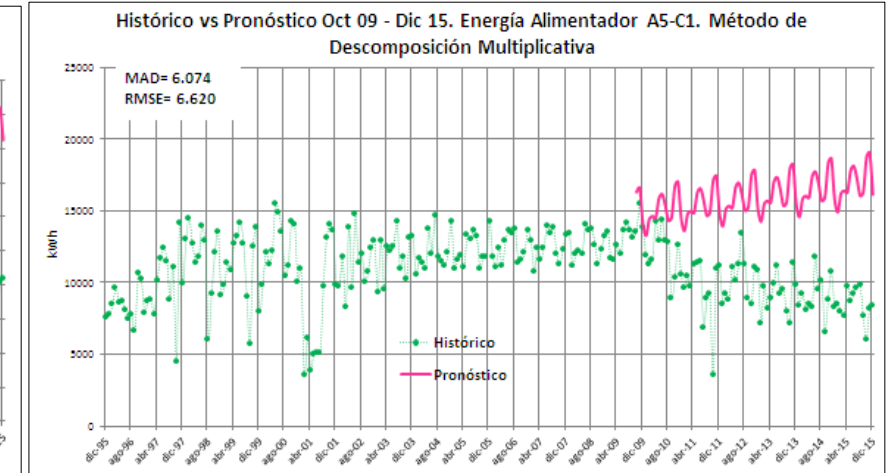
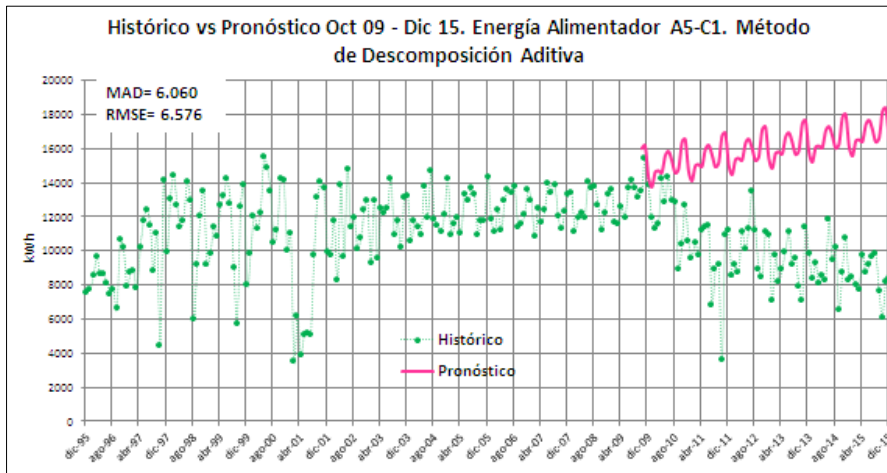
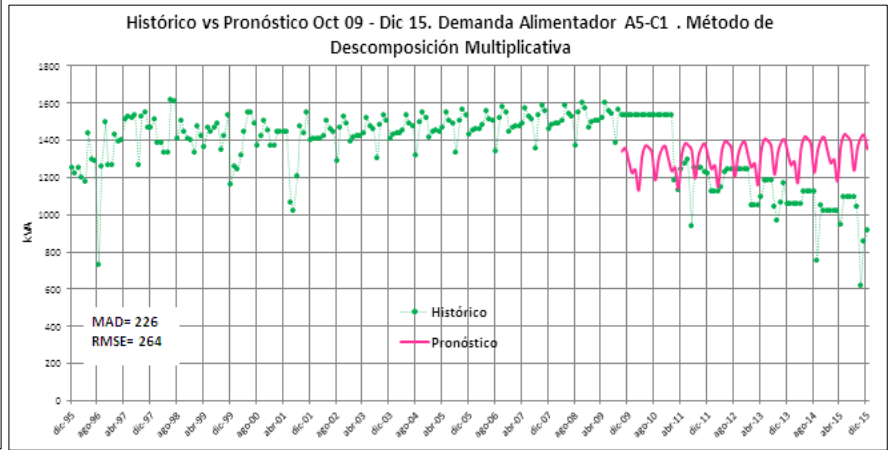
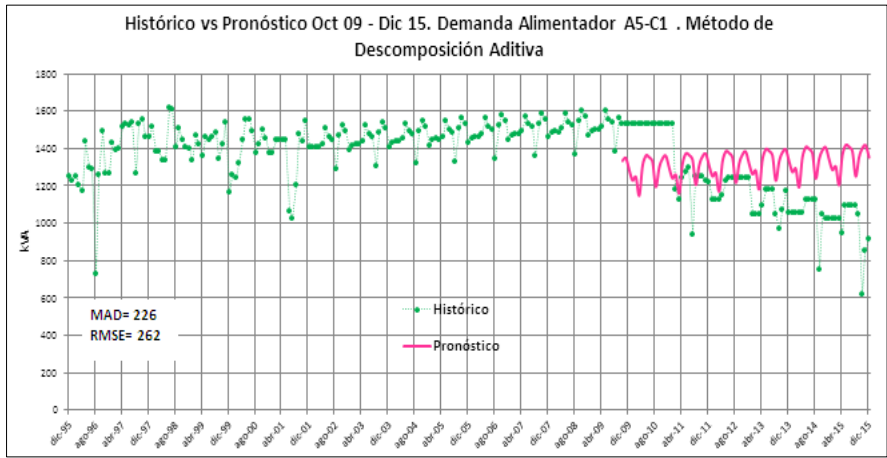
	Pronóstico	Data	Diferencia	Diferencia	RMSE	Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	Limpia		al Cuadrado	2.178			Multiplcativo	al cuadrado
oct-09	7.428	6.061	1.367	1.869.404		5.658	403	162.191	
nov-09	7.630	6.196	1.434	2.056.704		7.650	1.454	2.113.524	
dic-09	7.244	6.714	530	281.386	MAD	7.246	532	283.555	MAD
ene-10	7.151	6.445	706	498.970	2.039	7.150	705	496.527	1.939
feb-10	6.879	5.606	1.273	1.619.964		6.864	1.258	1.583.786	
mar-10	6.645	6.202	443	196.257		6.618	416	172.915	
abr-10	7.360	6.374	986	971.691		7.366	992	983.224	
may-10	7.857	6.413	1.444	2.084.282		7.884	1.471	2.164.492	
jun-10	7.995	6.259	1.736	3.012.946		8.028	1.769	3.128.457	
jul-10	7.531	6.202	1.329	1.767.368		7.547	1.345	1.808.832	
ago-10	6.566	5.978	588	345.613		6.542	565	318.706	
sep-10	6.725	4.368	2.357	5.555.305		6.708	2.340	5.473.444	
oct-10	7.453	4.902	2.551	6.509.969		5.678	776	602.467	
nov-10	7.655	5.658	1.997	3.989.303		7.677	2.019	4.075.215	
dic-10	7.270	5.837	1.433	2.052.517		7.272	1.435	2.059.202	
ene-11	7.177	4.986	2.191	4.798.644		7.175	2.189	4.790.810	
feb-11	6.904	4.998	1.906	3.632.762		6.889	1.891	3.574.447	
mar-11	6.670	5.126	1.544	2.384.589		6.641	1.515	2.295.503	
abr-11	7.385	5.754	1.631	2.659.987		7.391	1.637	2.681.269	
may-11	7.882	5.856	2.026	4.104.298		7.912	2.056	4.226.796	
jun-11	8.020	6.310	1.710	2.924.054		8.056	1.746	3.048.294	
jul-11	7.557	3.121	4.435	19.672.878		7.573	4.452	19.822.167	
ago-11	6.591	2.300	4.291	18.411.622		6.565	4.265	18.192.677	
sep-11	6.750	2.552	4.199	17.628.845		6.731	4.180	17.468.848	
oct-11	7.479	4.974	2.504	6.271.926		5.698	724	523.915	
nov-11	7.681	5.281	2.400	5.757.727		7.704	2.423	5.869.165	

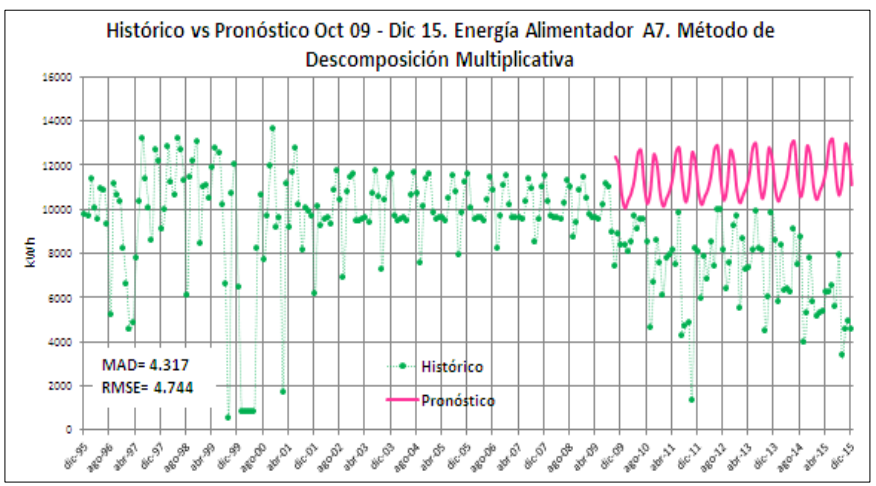
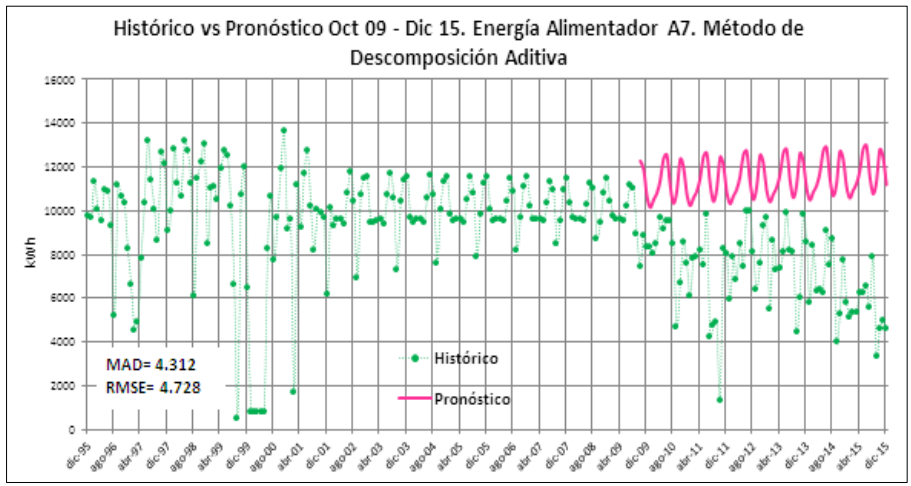
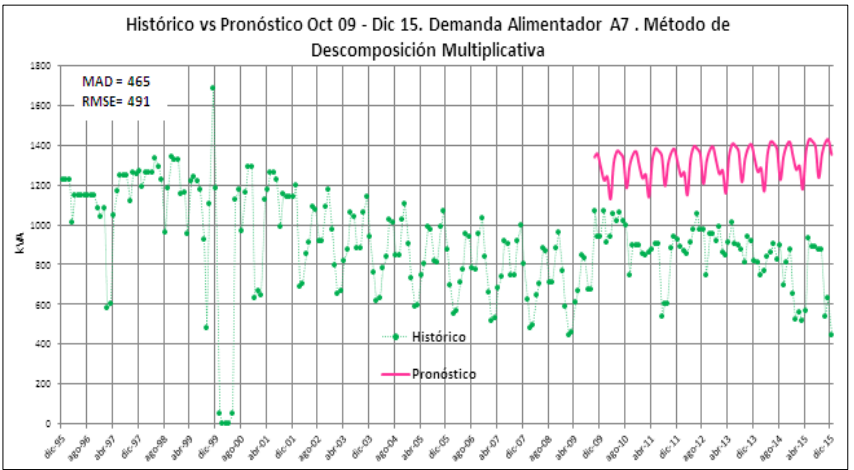
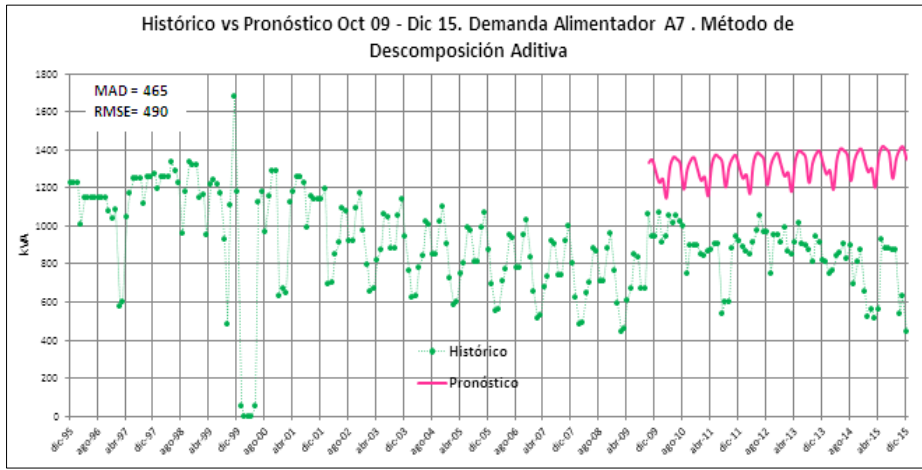
dic-11	7.295	5.997	1.298	1.684.449	7.297	1.300	1.691.261
ene-12	7.202	5.210	1.992	3.967.200	7.200	1.990	3.959.849
feb-12	6.929	4.787	2.142	4.588.949	6.913	2.126	4.518.838
mar-12	6.695	4.845	1.850	3.424.032	6.664	1.819	3.310.044
abr-12	7.410	4.986	2.424	5.876.499	7.417	2.431	5.911.413
may-12	7.907	5.805	2.102	4.418.863	7.940	2.135	4.556.574
jun-12	8.045	6.029	2.016	4.065.019	8.084	2.055	4.223.553
jul-12	7.582	5.747	1.835	3.366.598	7.600	1.853	3.433.311
ago-12	6.616	5.747	869	755.299	6.588	841	707.701
sep-12	6.776	4.451	2.324	5.402.716	6.755	2.304	5.306.623
oct-12	7.504	5.523	1.981	3.923.842	5.718	195	38.034
nov-12	7.706	5.971	1.735	3.009.284	7.731	1.760	3.096.037
dic-12	7.320	5.824	1.496	2.238.213	7.323	1.499	2.246.936
ene-13	7.227	5.299	1.928	3.717.129	7.225	1.926	3.709.792
feb-13	6.954	4.845	2.109	4.449.508	6.937	2.092	4.376.008
mar-13	6.721	5.293	1.428	2.038.089	6.688	1.395	1.944.948
abr-13	7.435	5.619	1.816	3.299.133	7.443	1.824	3.327.784
may-13	7.932	5.261	2.671	7.135.906	7.967	2.706	7.324.111
jun-13	8.070	5.581	2.489	6.197.071	8.112	2.531	6.407.584
jul-13	7.607	5.286	2.321	5.387.188	7.626	2.340	5.477.544
ago-13	6.641	5.107	1.534	2.354.020	6.611	1.504	2.262.652
sep-13	6.801	4.320	2.481	6.154.327	6.778	2.458	6.043.541
oct-13	7.529	5.446	2.083	4.339.187	5.738	292	85.229
nov-13	7.731	5.645	2.086	4.351.110	7.757	2.112	4.462.554
dic-13	7.345	5.050	2.295	5.268.256	7.348	2.298	5.282.971
ene-14	7.252	4.954	2.298	5.281.669	7.250	2.296	5.272.659
feb-14	6.980	4.557	2.423	5.868.934	6.961	2.404	5.779.341
mar-14	6.746	4.819	1.927	3.712.631	6.711	1.892	3.579.190
abr-14	7.461	4.416	3.045	9.269.310	7.469	3.053	9.321.440
may-14	7.958	5.338	2.620	6.861.854	7.995	2.657	7.059.678
jun-14	8.096	5.741	2.355	5.544.114	8.141	2.400	5.757.660
jul-14	7.632	5.581	2.051	4.207.561	7.653	2.072	4.292.815
ago-14	6.666	5.370	1.296	1.680.871	6.634	1.264	1.598.135
sep-14	6.826	4.144	2.682	7.191.941	6.802	2.658	7.063.276
oct-14	7.554	5.286	2.268	5.145.068	5.758	472	222.650
nov-14	7.756	5.306	2.450	6.003.156	7.784	2.478	6.142.445
dic-14	7.370	5.530	1.840	3.387.332	7.374	1.844	3.400.205
ene-15	7.277	5.510	1.767	3.123.670	7.275	1.765	3.116.539
feb-15	7.005	4.730	2.275	5.174.673	6.985	2.255	5.085.752
mar-15	6.771	5.184	1.587	2.518.637	6.734	1.550	2.402.921
abr-15	7.486	4.794	2.692	7.245.554	7.495	2.701	7.295.320
may-15	7.983	5.734	2.249	5.056.726	8.023	2.289	5.238.155
jun-15	8.121	5.734	2.387	5.696.798	8.169	2.435	5.927.786
jul-15	7.657	5.734	1.923	3.699.608	7.679	1.945	3.784.607
ago-15	6.692	5.498	1.194	1.424.888	6.657	1.159	1.343.595
sep-15	6.851	5.498	1.353	1.831.141	6.825	1.327	1.762.078
oct-15	7.579	4.525	3.054	9.329.828	5.778	1.253	1.569.445
nov-15	7.781	4.019	3.762	14.155.175	7.811	3.792	14.381.656
dic-15	7.396	4.262	3.134	9.819.908	11.379	7.117	50.653.115

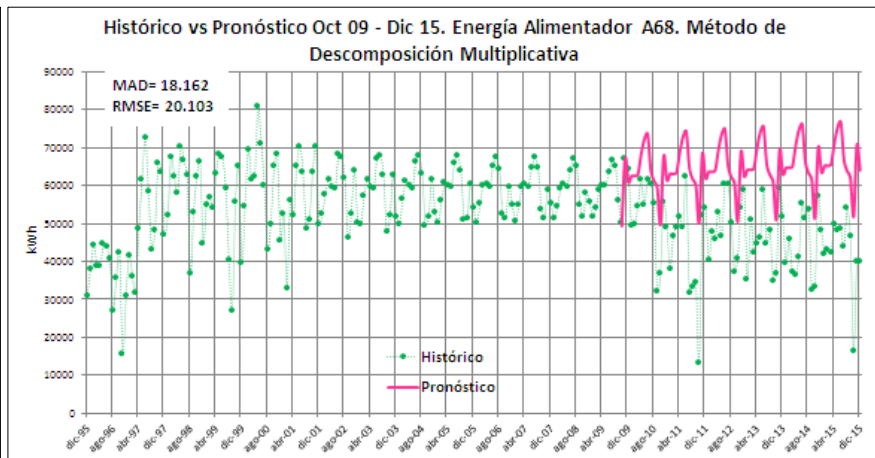
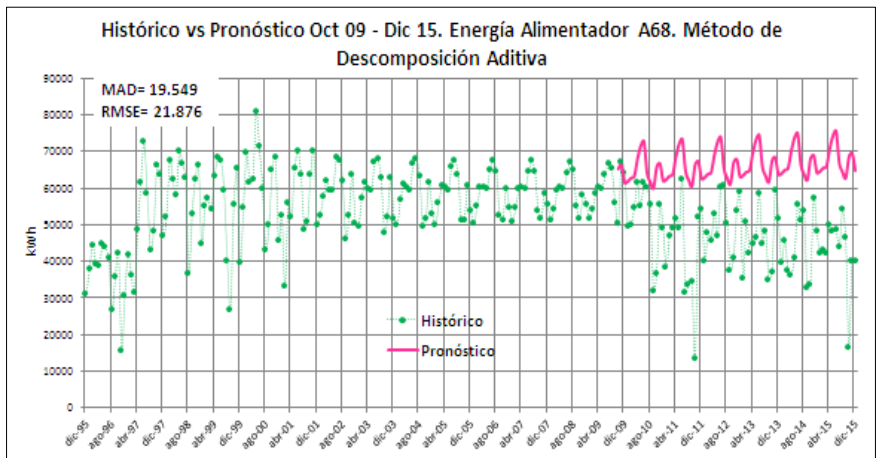
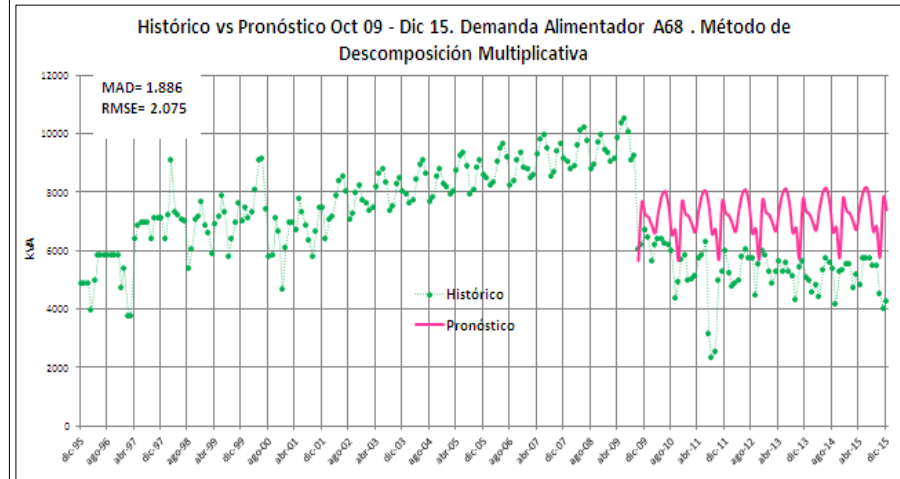
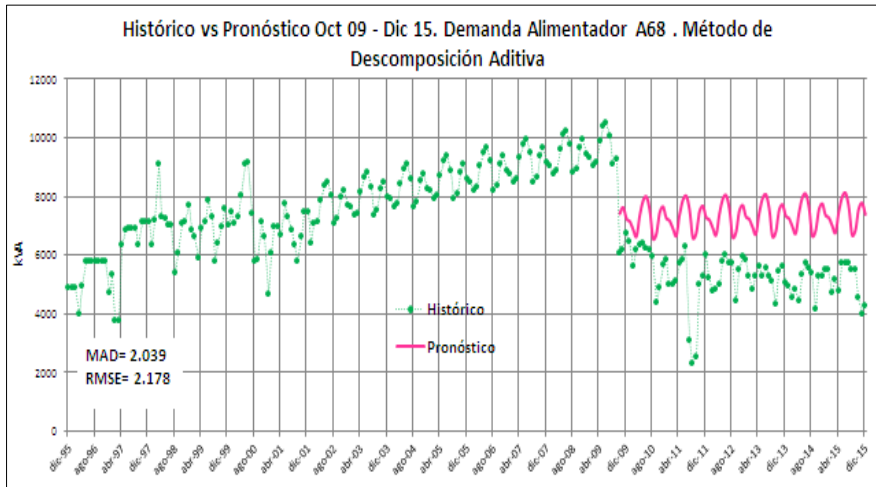
## ENERGÍA (kWh)

	Pronóstico	Data	Diferencia	Diferencia	RMSE	Pronóstico	Diferencia	Diferencia	RMSE
	Aditivo	Limpia		al Cuadrado	21.876			Multiplicativo	al cuadrado
oct-09	65.280	50.168	15.112	228.359.487	<b>MAD</b> <b>19.549</b>	49.343	825	680.810	<b>MAD</b> <b>18.162</b>
nov-09	66.222	67.200	978	956.895		67.183	17	287	
dic-09	61.509	64.206	2.697	7.276.016	60.936	3.270	10.695.379		
ene-10	61.839	49.548	12.291	151.071.114	62.542	12.994	168.832.533		
feb-10	62.779	49.829	12.950	167.713.675	62.553	12.724	161.894.590		
mar-10	63.202	54.503	8.699	75.676.633	62.968	8.465	71.659.082		
abr-10	67.995	61.440	6.555	42.963.883	68.279	6.839	46.775.882		
may-10	71.504	54.916	16.588	275.173.777	72.222	17.306	299.484.785		
jun-10	72.793	61.440	11.353	128.879.385	73.649	12.209	149.049.757		
jul-10	64.098	60.284	3.814	14.544.166	64.004	3.720	13.836.680		
ago-10	61.613	55.329	6.284	39.489.813	61.238	5.909	34.912.110		
sep-10	60.046	32.000	28.046	786.594.773	59.506	27.506	756.553.275		
oct-10	65.830	36.748	29.082	845.765.057	49.763	13.015	169.397.239		
nov-10	66.772	55.680	11.092	123.038.279	67.755	12.075	145.806.171		
dic-10	62.059	48.929	13.130	172.398.555	61.454	12.525	156.876.430		
ene-11	62.390	38.194	24.196	585.425.660	63.073	24.879	618.977.282		
feb-11	63.330	46.857	16.473	271.356.551	63.084	16.227	263.321.894		
mar-11	63.753	49.135	14.618	213.677.266	63.503	14.368	206.431.804		
abr-11	68.545	51.627	16.918	286.224.008	68.859	17.232	296.925.779		
may-11	72.055	48.929	23.126	534.804.235	72.834	23.905	571.443.548		
jun-11	73.343	62.293	11.050	122.102.008	74.273	11.980	143.508.578		
jul-11	64.648	31.662	32.986	1.088.104.737	64.546	32.884	1.081.349.066		
ago-11	62.164	33.445	28.719	824.755.928	61.756	28.311	801.495.137		
sep-11	60.597	34.560	26.037	677.913.344	60.009	25.449	647.628.610		
oct-11	66.381	13.304	53.077	2.817.145.769	50.184	36.880	1.360.129.255		
nov-11	67.323	52.228	15.094	227.842.578	68.327	16.099	259.168.476		
dic-11	62.610	54.090	8.520	72.582.479	61.972	7.882	62.132.911		
ene-12	62.940	40.258	22.682	514.475.083	63.605	23.347	545.080.109		
feb-12	63.880	48.000	15.880	252.186.331	63.616	15.616	243.847.330		
mar-12	64.303	45.832	18.471	341.184.342	64.037	18.205	331.432.982		
abr-12	69.096	53.120	15.976	255.220.699	69.438	16.318	266.269.922		
may-12	72.605	46.865	25.740	662.563.399	73.446	26.581	706.557.120		
jun-12	73.893	60.373	13.520	182.802.565	74.896	14.523	210.929.717		
jul-12	65.199	60.490	4.709	22.171.156	65.087	4.597	21.136.251		
ago-12	62.714	50.168	12.546	157.403.026	62.274	12.106	146.548.745		
sep-12	61.147	37.333	23.814	567.118.083	60.512	23.179	537.246.712		
oct-12	66.931	40.877	26.054	678.810.099	50.604	9.727	94.615.170		
nov-12	67.873	53.973	13.900	193.215.736	68.899	14.926	222.784.169		
dic-12	63.160	58.839	4.321	18.671.104	62.491	3.652	13.336.040		
ene-13	63.491	35.290	28.201	795.269.063	64.137	28.847	832.129.068		
feb-13	64.431	50.971	13.460	181.167.502	64.147	13.176	173.607.697		

mar-13	64.854	42.323	22.531	507.630.103	64.572	22.249	495.012.084
abr-13	69.646	44.587	25.059	627.958.512	70.017	25.430	646.686.131
may-13	73.156	46.452	26.704	713.091.813	74.058	27.606	762.113.261
jun-13	74.444	58.667	15.777	248.911.267	75.520	16.853	284.034.821
jul-13	65.749	44.774	20.975	439.954.728	65.629	20.855	434.941.137
ago-13	63.265	48.310	14.955	223.637.321	62.792	14.482	209.721.787
sep-13	61.698	34.987	26.711	713.462.204	61.015	26.028	677.436.889
oct-13	67.481	36.955	30.526	931.864.542	51.024	14.069	197.948.430
nov-13	68.424	59.307	9.117	83.113.826	69.471	10.164	103.305.331
dic-13	63.710	51.613	12.097	146.349.007	63.009	11.396	129.874.866
ene-14	64.041	39.639	24.402	595.456.989	64.668	25.029	626.468.068
feb-14	64.981	45.714	19.267	371.229.615	64.678	18.964	359.650.098
mar-14	65.404	37.368	28.036	786.024.035	65.106	27.738	769.420.672
abr-14	70.197	36.267	33.930	1.151.215.889	70.596	34.329	1.178.498.716
may-14	73.706	41.084	32.622	1.064.211.268	74.671	33.587	1.128.063.438
jun-14	74.994	55.467	19.527	381.319.120	76.144	20.677	427.548.488
jul-14	66.300	51.200	15.100	227.997.011	66.171	14.971	224.132.846
ago-14	63.815	53.884	9.931	98.624.373	63.310	9.426	88.846.021
sep-14	62.248	32.640	29.608	876.644.642	61.518	28.878	833.918.817
oct-14	68.032	33.445	34.587	1.196.255.625	51.445	18.000	323.992.672
nov-14	68.974	57.387	11.587	134.262.058	70.043	12.656	160.171.547
dic-14	64.261	48.103	16.158	261.079.395	63.528	15.425	237.920.647
ene-15	64.591	42.116	22.475	505.146.280	65.200	23.084	532.872.941
feb-15	65.532	43.200	22.332	498.708.933	65.210	22.010	484.433.876
mar-15	65.955	42.323	23.632	558.452.154	65.641	23.318	543.729.087
abr-15	70.747	49.920	20.827	433.765.786	71.176	21.256	451.796.874
may-15	74.257	48.310	25.947	673.232.446	75.283	26.973	727.538.003
jun-15	75.545	48.640	26.905	723.871.825	76.768	28.128	791.193.310
jul-15	66.850	43.974	22.876	523.313.298	66.713	22.739	517.057.185
ago-15	64.365	54.090	10.275	105.584.926	63.828	9.738	94.825.901
sep-15	62.799	46.507	16.292	265.418.104	62.021	15.514	240.674.494
oct-15	68.582	16.311	52.271	2.732.258.801	51.865	35.554	1.264.072.024
nov-15	69.525	40.107	29.418	865.396.523	70.615	30.508	930.729.314
dic-15	64.811	39.845	24.966	623.322.305	64.046	24.201	585.692.645









## [ANEXO N°5]

### Pronóstico a corto y mediano plazo bajo escenario de crecimiento vegetativo

- ✓ Método de Suavizado Exponencial de Holt-Winters
- Alimentador A5-C1

#### Demanda (kVA)

Alpha	Beta	Gamma
0,60	0,80	-

Date data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	240	854	862	0,00	1,00	914
dic-15	241	914	893	0,00	1,01	854
ene-16	242	854	895	0,00	0,95	850
feb-16	243	850	906	0,00	0,94	831
mar-16	244	831	906	0,00	0,92	831
abr-16	245	831	911	0,00	0,91	823
may-16	246	823	858	0,00	0,98	925
jun-16	247	925	886	0,00	1,03	870
jul-16	248	870	883	0,00	0,99	876
ago-16	249	876	897	0,00	0,97	851
sep-16	250	851	950	0,00	0,88	764
oct-16	251	764	959	0,00	0,80	751
nov-16	252	751	850	0,00	0,92	960
dic-16	253	960	901	0,00	1,05	862
ene-17	254	862	902	0,00	0,95	858
feb-17	255	858	910	0,00	0,94	844
mar-17	256	844	915	0,00	0,92	835
abr-17	257	835	916	0,00	0,91	835
may-17	258	835	884	0,00	0,95	894
jun-17	259	894	873	0,00	1,03	915
jul-17	260	915	902	0,00	1,01	862
ago-17	261	862	893	0,00	0,97	877
sep-17	262	877	945	0,00	0,91	788
oct-17	263	788	969	0,00	0,81	752
nov-17	264	752	891	0,00	0,87	891
dic-17	265	891	869	0,00	1,03	935
ene-18	266	935	927	0,00	0,99	829
feb-18	267	829	903	0,00	0,92	872
mar-18	268	872	926	0,00	0,94	831
abr-18	269	831	918	0,00	0,91	844
may-18	270	844	901	0,00	0,94	876
jun-18	271	876	876	0,00	1,01	925
jul-18	272	925	899	0,00	1,02	882
ago-18	273	882	905	0,00	0,97	869
sep-18	274	869	929	0,00	0,93	828
oct-18	275	828	979	0,00	0,83	751
nov-18	276	751	920	0,00	0,83	848
dic-18	277	848	869	0,00	0,99	950
ene-19	278	950	915	0,00	1,03	863
feb-19	279	863	924	0,00	0,93	846
mar-19	280	846	914	0,00	0,93	864
abr-19	281	864	934	0,00	0,92	829
may-19	282	829	906	0,00	0,92	880
jun-19	283	880	889	0,00	0,99	913
jul-19	284	913	891	0,00	1,02	909
ago-19	285	909	914	0,00	0,99	866
sep-19	286	866	923	0,00	0,94	849
oct-19	287	849	972	0,00	0,86	770
nov-19	288	770	949	0,00	0,82	808
dic-19	289	808	879	0,00	0,94	942
ene-20	290	942	900	0,00	1,04	901
feb-20	291	901	935	0,00	0,95	838
mar-20	292	838	918	0,00	0,92	868

abr-20	293	<b>868</b>	931	0,00	0,93	844
may-20	294	<b>844</b>	923	0,00	0,92	860
jun-20	295	<b>860</b>	892	0,00	0,97	918
jul-20	296	<b>918</b>	894	0,00	1,03	914
ago-20	297	<b>914</b>	910	0,00	1,00	883
sep-20	298	<b>883</b>	928	0,00	0,95	851
oct-20	299	<b>851</b>	959	0,00	0,88	800
nov-20	300	<b>800</b>	969	0,00	0,82	784
dic-20	301	<b>784</b>	898	0,00	0,89	913

### Energía (kWh)

Alpha	Beta	Gamma
<b>0,60</b>	<b>0,80</b>	-

Date Period (Mmm-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (Lt)	Forecast (Ft)
nov-15	240	8213	9.422	0,00	0,87	9.232
dic-15	241	8413	9.954	0,00	0,84	7.700
ene-16	242	<b>7.700</b>	9.979	0,00	0,77	7.668
feb-16	243	<b>7.668</b>	9.698	0,00	0,79	8.039
mar-16	244	<b>8.039</b>	10.189	0,00	0,79	7.424
abr-16	245	<b>7.424</b>	9.058	0,00	0,82	9.075
may-16	246	<b>9.075</b>	10.197	0,00	0,89	7.524
jun-16	247	<b>7.524</b>	8.799	0,00	0,86	9.704
jul-16	248	<b>9.704</b>	10.330	0,00	0,94	7.551
ago-16	249	<b>7.551</b>	9.492	0,00	0,80	8.709
sep-16	250	<b>8.709</b>	11.984	0,00	0,72	6.089
oct-16	251	<b>6.089</b>	10.821	0,00	0,56	7.240
nov-16	252	<b>7.240</b>	9.275	0,00	0,79	9.456
dic-16	253	<b>9.456</b>	10.453	0,00	0,90	7.826
ene-17	254	<b>7.826</b>	10.264	0,00	0,76	8.065
feb-17	255	<b>8.065</b>	10.219	0,00	0,79	8.123
mar-17	256	<b>8.123</b>	10.275	0,00	0,79	8.051
abr-17	257	<b>8.051</b>	9.973	0,00	0,81	8.458
may-17	258	<b>8.458</b>	9.706	0,00	0,87	8.847
jun-17	259	<b>8.847</b>	10.061	0,00	0,88	8.346
jul-17	260	<b>8.346</b>	9.367	0,00	0,89	9.411
ago-17	261	<b>9.411</b>	10.848	0,00	0,86	7.473
sep-17	262	<b>7.473</b>	10.541	0,00	0,71	7.837
oct-17	263	<b>7.837</b>	12.576	0,00	0,62	5.953
nov-17	264	<b>5.953</b>	9.529	0,00	0,63	9.876
dic-17	265	<b>9.876</b>	10.398	0,00	0,95	8.591
ene-18	266	<b>8.591</b>	10.924	0,00	0,79	7.933
feb-18	267	<b>7.933</b>	10.392	0,00	0,76	8.622
mar-18	268	<b>8.622</b>	10.707	0,00	0,80	8.214
abr-18	269	<b>8.214</b>	10.376	0,00	0,79	8.652
may-18	270	<b>8.652</b>	10.098	0,00	0,86	9.050
jun-18	271	<b>9.050</b>	10.223	0,00	0,88	8.869
jul-18	272	<b>8.869</b>	10.044	0,00	0,88	9.132
ago-18	273	<b>9.132</b>	10.364	0,00	0,88	8.678
sep-18	274	<b>8.678</b>	11.501	0,00	0,75	7.355
oct-18	275	<b>7.355</b>	11.719	0,00	0,63	7.134
nov-18	276	<b>7.134</b>	11.447	0,00	0,62	7.415
dic-18	277	<b>7.415</b>	9.239	0,00	0,81	10.845
ene-19	278	<b>10.845</b>	12.028	0,00	0,90	7.255
feb-19	279	<b>7.255</b>	10.478	0,00	0,70	9.198
mar-19	280	<b>9.198</b>	11.060	0,00	0,83	8.430
abr-19	281	<b>8.430</b>	10.803	0,00	0,78	8.764
may-19	282	<b>8.764</b>	10.447	0,00	0,84	9.264
jun-19	283	<b>9.264</b>	10.461	0,00	0,89	9.244
jul-19	284	<b>9.244</b>	10.462	0,00	0,88	9.243
ago-19	285	<b>9.243</b>	10.485	0,00	0,88	9.209
sep-19	286	<b>9.209</b>	11.557	0,00	0,79	7.888
oct-19	287	<b>7.888</b>	12.178	0,00	0,65	7.249
nov-19	288	<b>7.249</b>	11.840	0,00	0,61	7.595
dic-19	289	<b>7.595</b>	10.338	0,00	0,74	9.588
ene-20	290	<b>9.588</b>	10.561	0,00	0,91	9.261
feb-20	291	<b>9.261</b>	12.235	0,00	0,75	7.351
mar-20	292	<b>7.351</b>	10.172	0,00	0,73	10.159
abr-20	293	<b>10.159</b>	11.902	0,00	0,85	7.944
may-20	294	<b>7.944</b>	10.412	0,00	0,77	9.996
jun-20	295	<b>9.996</b>	10.946	0,00	0,91	9.220
jul-20	296	<b>9.220</b>	10.634	0,00	0,87	9.672
ago-20	297	<b>9.672</b>	10.841	0,00	0,89	9.373
sep-20	298	<b>9.373</b>	11.423	0,00	0,82	8.615
oct-20	299	<b>8.615</b>	12.581	0,00	0,68	7.387
nov-20	300	<b>7.387</b>	12.260	0,00	0,60	7.710
dic-20	301	<b>7.710</b>	11.151	0,00	0,69	9.053

- Alimentador A7

Demanda (kVA)

Alpha	Beta	Gamma
0,20	0,40	-

Date Data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	240	629	804	0,00	0,93	889
dic-15	241	444	711	0,00	0,80	725
ene-16	242	725	754	0,00	0,89	601
feb-16	243	601	758	0,00	0,79	592
mar-16	244	592	766	0,00	0,76	572
abr-16	245	572	745	0,00	0,80	629
may-16	246	629	718	0,00	0,93	717
jun-16	247	717	727	0,00	0,97	686
jul-16	248	686	739	0,00	0,91	650
ago-16	249	650	740	0,00	0,88	650
sep-16	250	650	766	0,00	0,81	581
oct-16	251	581	745	0,00	0,81	638
nov-16	252	638	728	0,00	0,91	693
dic-16	253	693	768	0,00	0,84	586
ene-17	254	586	735	0,00	0,85	680
feb-17	255	680	774	0,00	0,82	579
mar-17	256	579	770	0,00	0,76	589
abr-17	257	589	759	0,00	0,79	618
may-17	258	618	731	0,00	0,90	707
jun-17	259	707	731	0,00	0,97	706
jul-17	260	706	745	0,00	0,92	662
ago-17	261	662	748	0,00	0,88	655
sep-17	262	655	767	0,00	0,82	604
oct-17	263	604	759	0,00	0,81	625
nov-17	264	625	737	0,00	0,89	692
dic-17	265	692	763	0,00	0,86	619
ene-18	266	619	751	0,00	0,84	653
feb-18	267	653	765	0,00	0,83	616
mar-18	268	616	779	0,00	0,77	580
abr-18	269	580	765	0,00	0,78	618
may-18	270	618	741	0,00	0,88	690
jun-18	271	690	733	0,00	0,96	716
jul-18	272	716	746	0,00	0,93	674
ago-18	273	674	752	0,00	0,89	658
sep-18	274	658	766	0,00	0,84	620
oct-18	275	620	766	0,00	0,81	619
nov-18	276	619	745	0,00	0,87	681
dic-18	277	681	758	0,00	0,87	643
ene-19	278	643	759	0,00	0,84	640
feb-19	279	640	763	0,00	0,83	631
mar-19	280	631	780	0,00	0,78	586
abr-19	281	586	771	0,00	0,77	609
may-19	282	609	748	0,00	0,86	677
jun-19	283	677	736	0,00	0,94	716
jul-19	284	716	745	0,00	0,94	687
ago-19	285	687	754	0,00	0,90	661
sep-19	286	661	765	0,00	0,85	631
oct-19	287	631	769	0,00	0,81	618
nov-19	288	618	752	0,00	0,85	668
dic-19	289	668	756	0,00	0,88	658
ene-20	290	658	763	0,00	0,85	638
feb-20	291	638	763	0,00	0,83	636
mar-20	292	636	778	0,00	0,80	598
abr-20	293	598	776	0,00	0,77	602
may-20	294	602	755	0,00	0,84	665
jun-20	295	665	739	0,00	0,93	713
jul-20	296	713	744	0,00	0,95	698
ago-20	297	698	755	0,00	0,91	666
sep-20	298	666	765	0,00	0,85	638
oct-20	299	638	771	0,00	0,82	621
nov-20	300	621	758	0,00	0,84	657
dic-20	301	657	755	0,00	0,87	666

### Energía (kVA)

Alpha	Beta	Gamma
0,40	0,10	-

Date Period (Mmm-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	240	4.960	8.699	0,00	0,99	9.016
dic-15	241	4.568	8.660	0,00	0,90	8.218
ene-16	242	<b>8.218</b>	8.675	0,00	0,82	7.012
feb-16	243	<b>7.012</b>	8.668	0,00	0,87	7.635
mar-16	244	<b>7.635</b>	8.671	0,00	0,85	7.331
abr-16	245	<b>7.331</b>	8.669	0,00	0,87	7.584
may-16	246	<b>7.584</b>	8.666	0,00	0,89	7.769
jun-16	247	<b>7.769</b>	8.655	0,00	1,02	8.940
jul-16	248	<b>8.940</b>	8.663	0,00	0,96	8.225
ago-16	249	<b>8.225</b>	8.671	0,00	0,88	7.513
sep-16	250	<b>7.513</b>	8.690	0,00	0,72	6.126
oct-16	251	<b>6.126</b>	8.679	0,00	0,80	7.017
nov-16	252	<b>7.017</b>	8.664	0,00	0,97	8.555
dic-16	253	<b>8.555</b>	8.672	0,00	0,91	7.823
ene-17	254	<b>7.823</b>	8.680	0,00	0,83	7.141
feb-17	255	<b>7.141</b>	8.675	0,00	0,87	7.578
mar-17	256	<b>7.578</b>	8.678	0,00	0,85	7.368
abr-17	257	<b>7.368</b>	8.675	0,00	0,87	7.565
may-17	258	<b>7.565</b>	8.673	0,00	0,89	7.757
jun-17	259	<b>7.757</b>	8.663	0,00	1,01	8.831
jul-17	260	<b>8.831</b>	8.668	0,00	0,96	8.303
ago-17	261	<b>8.303</b>	8.676	0,00	0,88	7.588
sep-17	262	<b>7.588</b>	8.695	0,00	0,74	6.267
oct-17	263	<b>6.267</b>	8.686	0,00	0,79	6.932
nov-17	264	<b>6.932</b>	8.671	0,00	0,95	8.409
dic-17	265	<b>8.409</b>	8.677	0,00	0,92	7.902
ene-18	266	<b>7.902</b>	8.685	0,00	0,84	7.213
feb-18	267	<b>7.213</b>	8.681	0,00	0,86	7.539
mar-18	268	<b>7.539</b>	8.683	0,00	0,85	7.394
abr-18	269	<b>7.394</b>	8.681	0,00	0,87	7.550
may-18	270	<b>7.550</b>	8.679	0,00	0,89	7.743
jun-18	271	<b>7.743</b>	8.669	0,00	0,99	8.730
jul-18	272	<b>8.730</b>	8.673	0,00	0,97	8.361
ago-18	273	<b>8.361</b>	8.681	0,00	0,89	7.663
sep-18	274	<b>7.663</b>	8.698	0,00	0,75	6.401
oct-18	275	<b>6.401</b>	8.692	0,00	0,78	6.869
nov-18	276	<b>6.869</b>	8.677	0,00	0,94	8.268
dic-18	277	<b>8.268</b>	8.681	0,00	0,92	7.958
ene-19	278	<b>7.958</b>	8.689	0,00	0,85	7.284
feb-19	279	<b>7.284</b>	8.686	0,00	0,86	7.510
mar-19	280	<b>7.510</b>	8.687	0,00	0,85	7.412
abr-19	281	<b>7.412</b>	8.686	0,00	0,87	7.538
may-19	282	<b>7.538</b>	8.684	0,00	0,89	7.728
jun-19	283	<b>7.728</b>	8.675	0,00	0,98	8.637
jul-19	284	<b>8.637</b>	8.677	0,00	0,97	8.403
ago-19	285	<b>8.403</b>	8.684	0,00	0,90	7.735
sep-19	286	<b>7.735</b>	8.701	0,00	0,77	6.528
oct-19	287	<b>6.528</b>	8.697	0,00	0,78	6.825
nov-19	288	<b>6.825</b>	8.683	0,00	0,92	8.134
dic-19	289	<b>8.134</b>	8.684	0,00	0,92	7.994
ene-20	290	<b>7.994</b>	8.692	0,00	0,85	7.354
feb-20	291	<b>7.354</b>	8.690	0,00	0,86	7.490
mar-20	292	<b>7.490</b>	8.691	0,00	0,86	7.425
abr-20	293	<b>7.425</b>	8.690	0,00	0,87	7.529
may-20	294	<b>7.529</b>	8.688	0,00	0,89	7.712
jun-20	295	<b>7.712</b>	8.679	0,00	0,97	8.551
jul-20	296	<b>8.551</b>	8.680	0,00	0,97	8.430
ago-20	297	<b>8.430</b>	8.687	0,00	0,91	7.805
sep-20	298	<b>7.805</b>	8.703	0,00	0,78	6.650
oct-20	299	<b>6.650</b>	8.701	0,00	0,78	6.797
nov-20	300	<b>6.797</b>	8.687	0,00	0,91	8.007
dic-20	301	<b>8.007</b>	8.687	0,00	0,92	8.012

- Alimentador A68

Demanda (kVA)

Alpha	Beta	Gamma
0,40	0,30	-

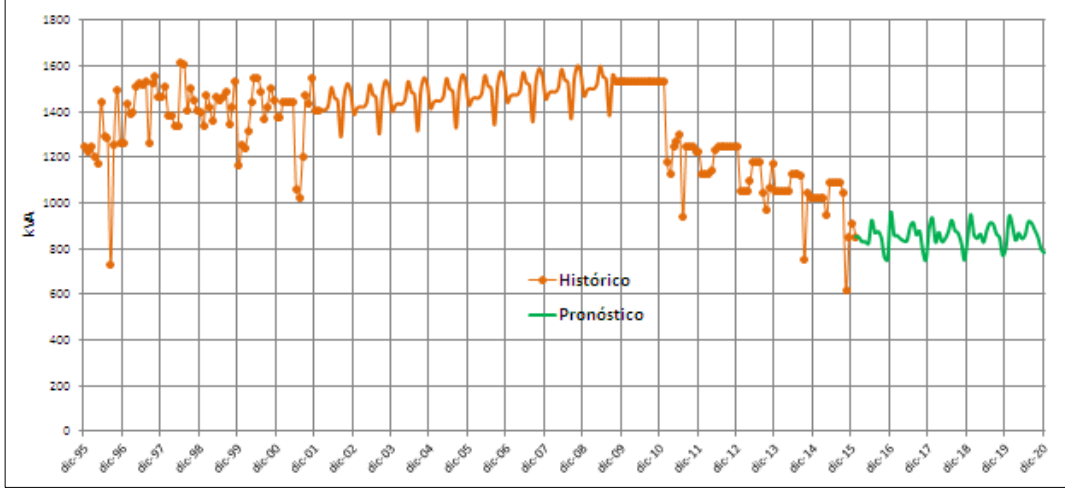
Date Data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (Lt)	Forecast (Ft)
nov-15	240	4019	5.035	0,00	0,97	5.737
dic-15	241	4262	4.765	0,00	0,99	5.190
ene-16	242	<b>5.190</b>	4.930	0,00	1,00	4.653
feb-16	243	<b>4.653</b>	5.004	0,00	0,91	4.430
mar-16	244	<b>4.430</b>	4.895	0,00	0,94	4.778
abr-16	245	<b>4.778</b>	4.911	0,00	0,97	4.725
may-16	246	<b>4.725</b>	4.757	0,00	1,05	5.275
jun-16	247	<b>5.275</b>	4.757	0,00	1,11	5.277
jul-16	248	<b>5.277</b>	4.882	0,00	1,04	4.851
ago-16	249	<b>4.851</b>	4.965	0,00	0,95	4.591
sep-16	250	<b>4.591</b>	5.120	0,00	0,86	4.158
oct-16	251	<b>4.158</b>	4.909	0,00	0,91	4.823
nov-16	252	<b>4.823</b>	4.935	0,00	0,97	4.739
dic-16	253	<b>4.739</b>	4.890	0,00	0,98	4.885
ene-17	254	<b>4.885</b>	4.890	0,00	1,00	4.888
feb-17	255	<b>4.888</b>	5.038	0,00	0,93	4.439
mar-17	256	<b>4.439</b>	4.943	0,00	0,93	4.735
abr-17	257	<b>4.735</b>	4.928	0,00	0,97	4.783
may-17	258	<b>4.783</b>	4.817	0,00	1,03	5.174
jun-17	259	<b>5.174</b>	4.771	0,00	1,10	5.342
jul-17	260	<b>5.342</b>	4.884	0,00	1,05	4.953
ago-17	261	<b>4.953</b>	4.980	0,00	0,96	4.647
sep-17	262	<b>4.647</b>	5.116	0,00	0,87	4.259
oct-17	263	<b>4.259</b>	4.980	0,00	0,90	4.673
nov-17	264	<b>4.673</b>	4.933	0,00	0,96	4.826
dic-17	265	<b>4.826</b>	4.925	0,00	0,98	4.852
ene-18	266	<b>4.852</b>	4.904	0,00	1,00	4.922
feb-18	267	<b>4.922</b>	5.026	0,00	0,94	4.544
mar-18	268	<b>4.544</b>	4.989	0,00	0,92	4.661
abr-18	269	<b>4.661</b>	4.940	0,00	0,96	4.816
may-18	270	<b>4.816</b>	4.857	0,00	1,02	5.102
jun-18	271	<b>5.102</b>	4.789	0,00	1,09	5.351
jul-18	272	<b>5.351</b>	4.874	0,00	1,07	5.052
ago-18	273	<b>5.052</b>	4.984	0,00	0,98	4.701
sep-18	274	<b>4.701</b>	5.107	0,00	0,89	4.341
oct-18	275	<b>4.341</b>	5.029	0,00	0,89	4.576
nov-18	276	<b>4.576</b>	4.947	0,00	0,95	4.841
dic-18	277	<b>4.841</b>	4.940	0,00	0,98	4.860
ene-19	278	<b>4.860</b>	4.922	0,00	0,99	4.923
feb-19	279	<b>4.923</b>	5.012	0,00	0,95	4.638
mar-19	280	<b>4.638</b>	5.017	0,00	0,92	4.623
abr-19	281	<b>4.623</b>	4.958	0,00	0,95	4.811
may-19	282	<b>4.811</b>	4.885	0,00	1,01	5.060
jun-19	283	<b>5.060</b>	4.811	0,00	1,08	5.329
jul-19	284	<b>5.329</b>	4.865	0,00	1,08	5.137
ago-19	285	<b>5.137</b>	4.979	0,00	0,99	4.764
sep-19	286	<b>4.764</b>	5.099	0,00	0,90	4.411
oct-19	287	<b>4.411</b>	5.063	0,00	0,88	4.519
nov-19	288	<b>4.519</b>	4.969	0,00	0,94	4.816
dic-19	289	<b>4.816</b>	4.950	0,00	0,98	4.878
ene-20	290	<b>4.878</b>	4.938	0,00	0,99	4.919
feb-20	291	<b>4.919</b>	5.003	0,00	0,96	4.712
mar-20	292	<b>4.712</b>	5.033	0,00	0,93	4.617
abr-20	293	<b>4.617</b>	4.980	0,00	0,94	4.786
may-20	294	<b>4.786</b>	4.908	0,00	1,00	5.028
jun-20	295	<b>5.028</b>	4.834	0,00	1,07	5.296
jul-20	296	<b>5.296</b>	4.860	0,00	1,08	5.201
ago-20	297	<b>5.201</b>	4.970	0,00	1,01	4.835
sep-20	298	<b>4.835</b>	5.090	0,00	0,92	4.475
oct-20	299	<b>4.475</b>	5.086	0,00	0,88	4.488
nov-20	300	<b>4.488</b>	4.994	0,00	0,93	4.774
dic-20	301	<b>4.774</b>	4.959	0,00	0,97	4.890

### Energía (kWh)

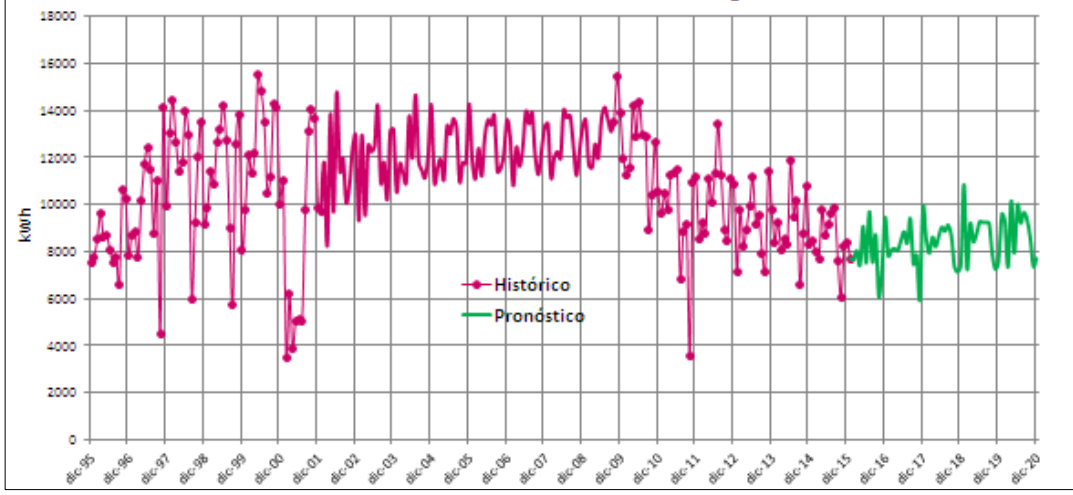
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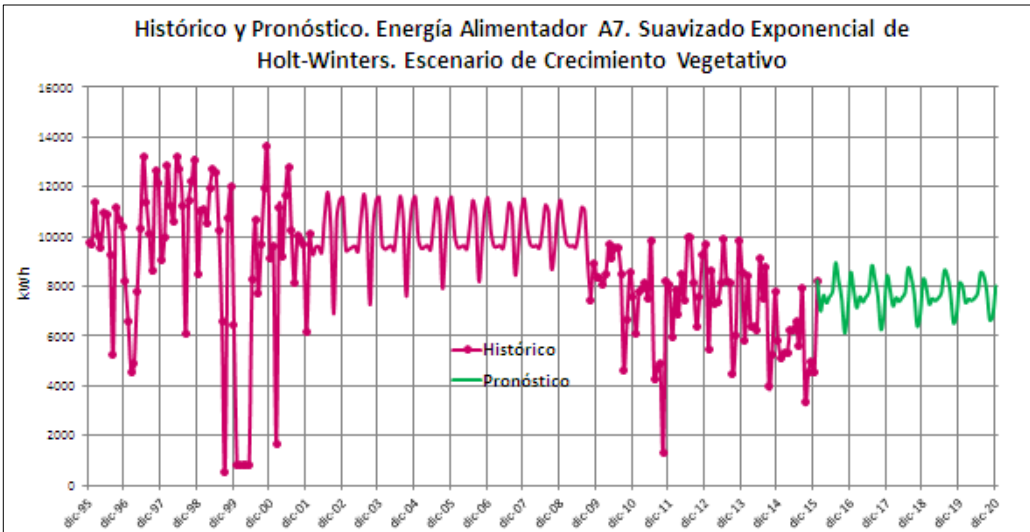
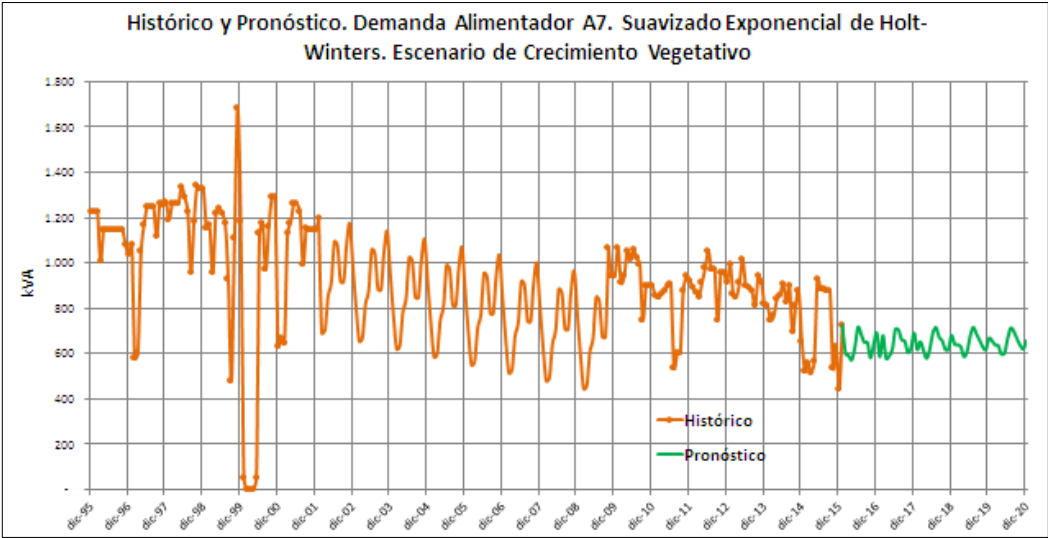
Date data (mmm-aa)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	240	40107	53.334	0,00	0,97	53.067
dic-15	241	39845	53.251	0,00	0,87	47.193
ene-16	242	47.193	53.292	0,00	0,83	43.815
feb-16	243	43.815	53.236	0,00	0,91	49.017
mar-16	244	49.017	53.242	0,00	0,91	48.491
abr-16	245	48.491	53.221	0,00	0,94	50.479
may-16	246	50.479	53.210	0,00	0,96	51.451
jun-16	247	51.451	53.154	0,00	1,07	57.581
jul-16	248	57.581	53.199	0,00	1,01	53.027
ago-16	249	53.027	53.232	0,00	0,95	50.002
sep-16	250	50.002	53.336	0,00	0,80	41.824
oct-16	251	41.824	53.362	0,00	0,75	39.852
nov-16	252	39.852	53.241	0,00	0,94	51.553
dic-16	253	51.553	53.301	0,00	0,88	46.310
ene-17	254	46.310	53.326	0,00	0,83	44.224
feb-17	255	44.224	53.280	0,00	0,90	48.481
mar-17	256	48.481	53.278	0,00	0,91	48.589
abr-17	257	48.589	53.260	0,00	0,94	50.298
may-17	258	50.298	53.249	0,00	0,96	51.383
jun-17	259	51.383	53.197	0,00	1,06	56.954
jul-17	260	56.954	53.231	0,00	1,01	53.566
ago-17	261	53.566	53.265	0,00	0,95	50.360
sep-17	262	50.360	53.360	0,00	0,82	42.739
oct-17	263	42.739	53.395	0,00	0,76	40.084
nov-17	264	40.084	53.286	0,00	0,92	50.307
dic-17	265	50.307	53.325	0,00	0,89	46.921
ene-18	266	46.921	53.354	0,00	0,84	44.471
feb-18	267	44.471	53.315	0,00	0,89	48.042
mar-18	268	48.042	53.308	0,00	0,91	48.609
abr-18	269	48.609	53.292	0,00	0,94	50.140
may-18	270	50.140	53.280	0,00	0,96	51.296
jun-18	271	51.296	53.232	0,00	1,05	56.379
jul-18	272	56.379	53.256	0,00	1,02	53.970
ago-18	273	53.970	53.290	0,00	0,96	50.733
sep-18	274	50.733	53.377	0,00	0,83	43.588
oct-18	275	43.588	53.419	0,00	0,76	40.386
nov-18	276	40.386	53.324	0,00	0,90	49.214
dic-18	277	49.214	53.345	0,00	0,89	47.322
ene-19	278	47.322	53.376	0,00	0,84	44.755
feb-19	279	44.755	53.343	0,00	0,89	47.672
mar-19	280	47.672	53.333	0,00	0,91	48.573
abr-19	281	48.573	53.318	0,00	0,93	49.996
may-19	282	49.996	53.305	0,00	0,96	51.194
jun-19	283	51.194	53.261	0,00	1,04	55.852
jul-19	284	55.852	53.276	0,00	1,02	54.261
ago-19	285	54.261	53.309	0,00	0,97	51.105
sep-19	286	51.105	53.390	0,00	0,85	44.381
oct-19	287	44.381	53.438	0,00	0,77	40.745
nov-19	288	40.745	53.354	0,00	0,89	48.267
dic-19	289	48.267	53.362	0,00	0,89	47.556
ene-20	290	47.556	53.392	0,00	0,85	45.049
feb-20	291	45.049	53.366	0,00	0,88	47.369
mar-20	292	47.369	53.354	0,00	0,91	48.496
abr-20	293	48.496	53.339	0,00	0,93	49.860
may-20	294	49.860	53.326	0,00	0,96	51.084
jun-20	295	51.084	53.285	0,00	1,03	55.366
jul-20	296	55.366	53.294	0,00	1,02	54.459
ago-20	297	54.459	53.325	0,00	0,97	51.466
sep-20	298	51.466	53.400	0,00	0,86	45.126
oct-20	299	45.126	53.451	0,00	0,78	41.148
nov-20	300	41.148	53.380	0,00	0,88	47.459
dic-20	301	47.459	53.378	0,00	0,89	47.656

Histórico y Pronóstico. Demanda Alimentador A5-C1. Suavizado Exponencial de Holt-Winters. Escenario de Crecimiento Vegetativo

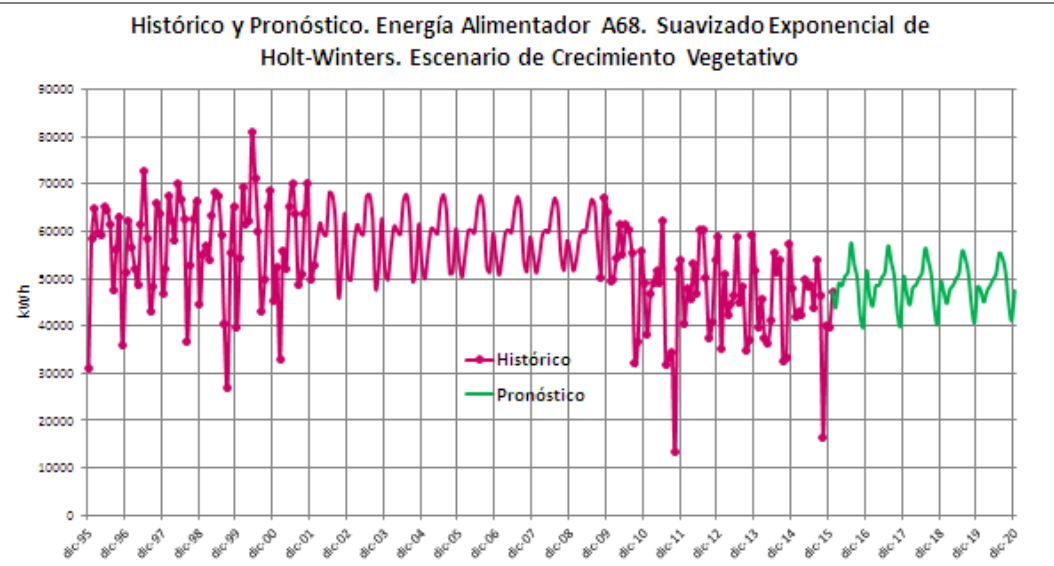
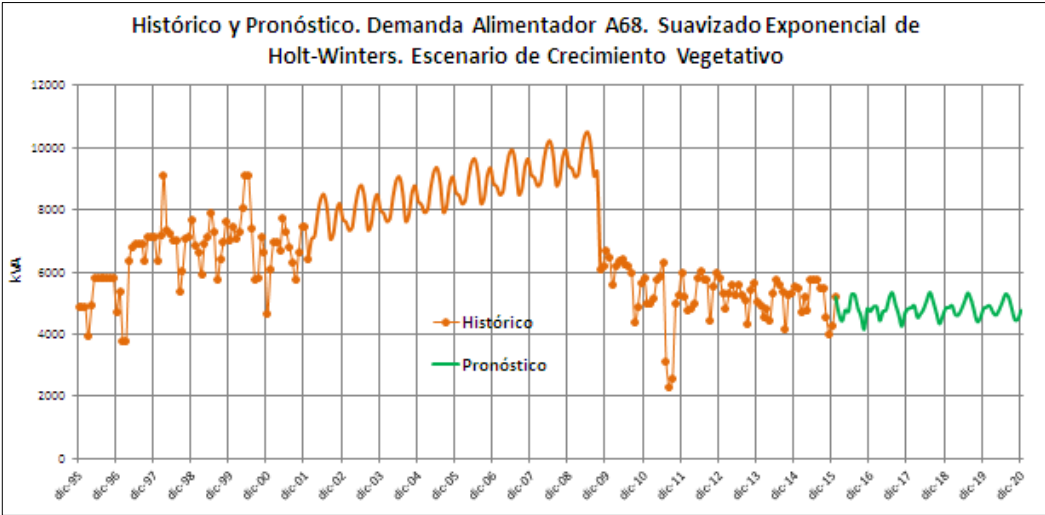


Histórico y Pronóstico. Energía Alimentador A5-C1. Suavizado Exponencial de Holt-Winters. Escenario de Crecimiento Vegetativo









✓ Método de Descomposición según el Modelo Aditivo y Método de Descomposición según el Modelo Multiplicativo

• Alimentador A5-C1

Demanda (kVA)

CLASSICAL DECOMPOSITION TEMPLATE					ADDITIVE FORECAST METHOD					MULTIPLICATIVE FORECAST METHOD		
Slope of Trend Line		0										
Intercept		1.408										
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value (Ft)
nov-15	240	1.169	1.341	0.87	1.473	1.507	(304)	37	1.510	79	103	1.511
dic-15	241	1.229	1.345	0.91	1.473	1.451	(245)	(39)	1.434	83	97	1.433
ene-16	242	1.451	1.354	1.07	1.474	1.451	(23)	(24)	1.450	98	98	1.449
feb-16	243	1.451	1.369	1.06	1.474	1.434	(23)	(21)	1.453	98	99	1.452
mar-16	244	1.434	1.382	1.04	1.474	1.430	(40)	(26)	1.448	97	98	1.448
abr-16	245	1.430	1.387	1.03	1.475	1.460	(45)	(10)	1.465	97	99	1.465
may-16	246	1.460	1.434	1.02	1.475	1.519	(14)	66	1.541	99	105	1.542
jun-16	247	1.519	1.464	1.04	1.475	1.580	44	40	1.516	103	103	1.516
jul-16	248	1.580	1.487	1.06	1.475	1.568	105	17	1.492	107	101	1.492
ago-16	249	1.568	1.487	1.05	1.476	1.426	92	(81)	1.394	106	94	1.391
sep-16	250	1.426	1.488	0.96	1.476	1.491	(50)	6	1.482	97	100	1.483
oct-16	251	1.491	1.488	1.00	1.476	1.524	15	41	1.517	101	103	1.519
nov-16	252	1.524	1.488	1.02	1.477	1.510	47	37	1.513	103	103	1.514
dic-16	253	1.510	1.488	1.01	1.477	1.454	34	(39)	1.438	102	97	1.436
ene-17	254	1.454	1.489	0.98	1.477	1.454	(23)	(24)	1.453	98	98	1.452
feb-17	255	1.454	1.489	0.98	1.477	1.438	(23)	(21)	1.456	98	99	1.456
mar-17	256	1.438	1.489	0.97	1.478	1.433	(40)	(26)	1.452	97	98	1.451
abr-17	257	1.433	1.490	0.96	1.478	1.464	(45)	(10)	1.468	97	99	1.468
may-17	258	1.464	1.490	0.98	1.478	1.523	(15)	66	1.544	99	105	1.546
jun-17	259	1.523	1.490	1.02	1.478	1.584	44	40	1.519	103	103	1.520
jul-17	260	1.584	1.490	1.06	1.479	1.571	105	17	1.495	107	101	1.496
ago-17	261	1.571	1.491	1.05	1.479	1.429	92	(81)	1.398	106	94	1.394
sep-17	262	1.429	1.491	0.96	1.479	1.495	(50)	6	1.486	97	100	1.486
oct-17	263	1.495	1.493	1.00	1.480	1.527	15	41	1.520	101	103	1.522
nov-17	264	1.527	1.495	1.02	1.480	1.514	48	37	1.516	103	103	1.518
dic-17	265	1.514	1.494	1.01	1.480	1.457	34	(39)	1.441	102	97	1.440
ene-18	266	1.457	1.489	0.98	1.480	1.458	(23)	(24)	1.456	98	98	1.456
feb-18	267	1.458	1.479	0.99	1.481	1.458	(23)	(21)	1.459	98	99	1.459
mar-18	268	1.458	1.469	0.99	1.481	1.458	(23)	(26)	1.455	98	98	1.454
abr-18	269	1.458	1.472	0.99	1.481	1.458	(23)	(10)	1.471	98	99	1.471
may-18	270	1.458	1.469	0.99	1.481	1.459	(23)	66	1.547	98	105	1.549
jun-18	271	1.459	1.463	1.00	1.482	1.459	(23)	40	1.522	98	103	1.523
jul-18	272	1.459	1.459	1.00	1.482	1.459	(23)	17	1.499	98	101	1.499

ago-18	273	1.459	1.459	1.00	1.482	1.460	(23)	(81)	<b>1.401</b>	98	94	<b>1.397</b>
sep-18	274	1.460	1.459	1.00	1.483	1.460	(23)	6	<b>1.489</b>	98	100	<b>1.490</b>
oct-18	275	1.460	1.460	1.00	1.483	1.460	(23)	41	<b>1.523</b>	98	103	<b>1.525</b>
nov-18	276	1.460	1.460	1.00	1.483	1.460	(23)	37	<b>1.520</b>	98	103	<b>1.521</b>
dic-18	277	1.460	1.460	1.00	1.483	1.461	(23)	(39)	<b>1.444</b>	98	97	<b>1.443</b>
ene-19	278	1.461	1.460	1.00	1.484	1.461	(23)	(24)	<b>1.460</b>	98	98	<b>1.459</b>
feb-19	279	1.461	1.461	1.00	1.484	1.461	(23)	(21)	<b>1.463</b>	98	99	<b>1.462</b>
mar-19	280	1.461	1.461	1.00	1.484	1.461	(23)	(26)	<b>1.458</b>	98	98	<b>1.457</b>
abr-19	281	1.461	1.461	1.00	1.484	1.462	(23)	(10)	<b>1.475</b>	98	99	<b>1.474</b>
may-19	282	1.462	1.462	1.00	1.485	1.462	(23)	66	<b>1.551</b>	98	105	<b>1.553</b>
jun-19	283	1.462	1.462	1.00	1.485	1.462	(23)	40	<b>1.525</b>	98	103	<b>1.526</b>
jul-19	284	1.462	1.462	1.00	1.485	1.463	(23)	17	<b>1.502</b>	98	101	<b>1.502</b>
ago-19	285	1.463	1.462	1.00	1.486	1.463	(23)	(81)	<b>1.404</b>	98	94	<b>1.401</b>
sep-19	286	1.463	1.463	1.00	1.486	1.463	(23)	6	<b>1.492</b>	98	100	<b>1.493</b>
oct-19	287	1.463	1.463	1.00	1.486	1.463	(23)	41	<b>1.527</b>	98	103	<b>1.529</b>
nov-19	288	1.463	1.463	1.00	1.486	1.464	(23)	37	<b>1.523</b>	98	103	<b>1.524</b>
dic-19	289	1.464	1.463	1.00	1.487	1.464	(23)	(39)	<b>1.447</b>	98	97	<b>1.446</b>
ene-20	290	1.464	1.464	1.00	1.487	1.464	(23)	(24)	<b>1.463</b>	98	98	<b>1.462</b>
feb-20	291	1.464	1.464	1.00	1.487	1.464	(23)	(21)	<b>1.466</b>	98	99	<b>1.465</b>
mar-20	292	1.464	1.464	1.00	1.487	1.465	(23)	(26)	<b>1.461</b>	98	98	<b>1.461</b>
abr-20	293	1.465	1.465	1.00	1.488	1.465	(23)	(10)	<b>1.478</b>	98	99	<b>1.478</b>
may-20	294	1.465	1.465	1.00	1.488	1.465	(23)	66	<b>1.554</b>	98	105	<b>1.556</b>
jun-20	295	1.465	1.465	1.00	1.488	1.465	(23)	40	<b>1.529</b>	98	103	<b>1.530</b>
jul-20	296	1.465	1.465	1.00	1.489	1.466	(23)	17	<b>1.505</b>	98	101	<b>1.506</b>
ago-20	297	1.466	1.465	1.00	1.489	1.466	(23)	(81)	<b>1.407</b>	98	94	<b>1.404</b>
sep-20	298	1.466	1.466	1.00	1.489	1.466	(23)	6	<b>1.496</b>	98	100	<b>1.496</b>
oct-20	299	1.466	1.466	1.00	1.489	1.467	(23)	41	<b>1.530</b>	98	103	<b>1.532</b>
nov-20	300	1.467	1.466	1.00	1.490	1.467	(23)	37	<b>1.526</b>	98	103	<b>1.528</b>
dic-20	301	1.467	1.466	1.00	1.490	1.467	(23)	(39)	<b>1.451</b>	98	97	<b>1.449</b>

### Energía (kWh)

Slope of Trend Line	(2)
Intercept	11.239

Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value
nov-15	240	8.213	9.135	0,90	10.670	13.390	(2.457)	1.293	<b>11.962</b>	77	112	<b>11.921</b>
dic-15	241	8.413	9.337	0,90	10.667	10.180	(2.254)	15	<b>10.683</b>	79	100	<b>10.692</b>
ene-16	242	10.180	9.611	1,06	10.665	10.178	(485)	(630)	<b>10.035</b>	95	94	<b>10.051</b>
feb-16	243	10.178	9.902	1,03	10.663	11.292	(485)	(487)	<b>10.176</b>	95	96	<b>10.187</b>
mar-16	244	11.292	10.077	1,12	10.660	10.248	632	(788)	<b>9.872</b>	106	93	<b>9.893</b>
abr-16	245	10.248	10.112	1,01	10.658	11.143	(410)	(32)	<b>10.626</b>	96	100	<b>10.629</b>
may-16	246	11.143	10.339	1,08	10.655	12.465	488	337	<b>10.993</b>	105	103	<b>10.981</b>
jun-16	247	12.465	10.511	1,19	10.653	13.138	1.812	1.351	<b>12.004</b>	117	112	<b>11.971</b>

jul-16	248	13.138	10.923	1.20	10.651	11.963	2.488	812	<b>11.463</b>	123	107	<b>11.444</b>
ago-16	249	11.963	10.920	1.10	10.648	8.041	1.315	(6)	<b>10.642</b>	112	100	<b>10.657</b>
sep-16	250	8.041	10.918	0.74	10.646	8.798	(2.605)	(1.042)	<b>9.604</b>	76	90	<b>9.627</b>
oct-16	251	8.798	10.916	0.81	10.644	10.270	(1.845)	(798)	<b>9.845</b>	83	93	<b>9.851</b>
nov-16	252	10.270	10.913	0.94	10.641	13.355	(371)	1.293	<b>11.934</b>	97	112	<b>11.889</b>
dic-16	253	13.355	10.911	1.22	10.639	10.153	2.716	15	<b>10.654</b>	126	100	<b>10.663</b>
ene-17	254	10.153	10.908	0.93	10.636	10.151	(484)	(630)	<b>10.006</b>	95	94	<b>10.024</b>
feb-17	255	10.151	10.905	0.93	10.634	11.262	(483)	(487)	<b>10.147</b>	95	96	<b>10.159</b>
mar-17	256	11.262	10.902	1.03	10.632	10.221	630	(788)	<b>9.844</b>	106	93	<b>9.867</b>
abr-17	257	10.221	10.901	0.94	10.629	11.113	(409)	(32)	<b>10.597</b>	96	100	<b>10.601</b>
may-17	258	11.113	10.899	1.02	10.627	12.431	486	337	<b>10.964</b>	105	103	<b>10.952</b>
jun-17	259	12.431	10.896	1.14	10.625	13.103	1.807	1.351	<b>11.976</b>	117	112	<b>11.939</b>
jul-17	260	13.103	10.893	1.20	10.622	11.931	2.481	812	<b>11.434</b>	123	107	<b>11.414</b>
ago-17	261	11.931	10.778	1.11	10.620	8.019	1.311	(6)	<b>10.614</b>	112	100	<b>10.629</b>
sep-17	262	8.019	10.785	0.74	10.617	8.775	(2.598)	(1.042)	<b>9.575</b>	76	90	<b>9.601</b>
oct-17	263	8.775	10.956	0.80	10.615	10.243	(1.840)	(798)	<b>9.817</b>	83	93	<b>9.824</b>
nov-17	264	10.243	10.834	0.95	10.613	13.319	(370)	1.293	<b>11.906</b>	97	112	<b>11.857</b>
dic-17	265	13.319	10.761	1.24	10.610	8.769	2.709	15	<b>10.626</b>	126	100	<b>10.635</b>
ene-18	266	8.769	10.833	0.81	10.608	10.236	(1.839)	(630)	<b>9.978</b>	83	94	<b>9.997</b>
feb-18	267	10.236	10.471	0.98	10.606	13.310	(370)	(487)	<b>10.119</b>	97	96	<b>10.132</b>
mar-18	268	13.310	10.329	1.29	10.603	8.763	2.707	(788)	<b>9.815</b>	126	93	<b>9.840</b>
abr-18	269	8.763	10.768	0.81	10.601	10.229	(1.838)	(32)	<b>10.569</b>	83	100	<b>10.572</b>
may-18	270	10.229	10.766	0.95	10.598	13.301	(370)	337	<b>10.936</b>	97	103	<b>10.922</b>
jun-18	271	13.301	10.764	1.24	10.596	8.757	2.705	1.351	<b>11.947</b>	126	112	<b>11.907</b>
jul-18	272	8.757	10.761	0.81	10.594	10.222	(1.837)	812	<b>11.406</b>	83	107	<b>11.383</b>
ago-18	273	10.222	10.759	0.95	10.591	13.292	(369)	(6)	<b>10.585</b>	97	100	<b>10.600</b>
sep-18	274	13.292	10.756	1.24	10.589	8.751	2.703	(1.042)	<b>9.547</b>	126	90	<b>9.575</b>
oct-18	275	8.751	10.754	0.81	10.587	10.215	(1.835)	(798)	<b>9.789</b>	83	93	<b>9.798</b>
nov-18	276	10.215	10.752	0.95	10.584	13.283	(369)	1.293	<b>11.877</b>	97	112	<b>11.826</b>
dic-18	277	13.283	10.749	1.24	10.582	8.745	2.701	15	<b>10.597</b>	126	100	<b>10.606</b>
ene-19	278	8.745	10.746	0.81	10.579	10.208	(1.834)	(630)	<b>9.949</b>	83	94	<b>9.970</b>
feb-19	279	10.208	10.744	0.95	10.577	13.274	(369)	(487)	<b>10.090</b>	97	96	<b>10.105</b>
mar-19	280	13.274	10.742	1.24	10.575	8.739	2.700	(788)	<b>9.787</b>	126	93	<b>9.814</b>
abr-19	281	8.739	10.739	0.81	10.572	10.201	(1.833)	(32)	<b>10.540</b>	83	100	<b>10.544</b>
may-19	282	10.201	10.737	0.95	10.570	13.265	(369)	337	<b>10.907</b>	97	103	<b>10.893</b>
jun-19	283	13.265	10.735	1.24	10.568	8.734	2.698	1.351	<b>11.919</b>	126	112	<b>11.875</b>
jul-19	284	8.734	10.732	0.81	10.565	10.195	(1.832)	812	<b>11.377</b>	83	107	<b>11.352</b>
ago-19	285	10.195	10.730	0.95	10.563	13.257	(368)	(6)	<b>10.557</b>	97	100	<b>10.572</b>
sep-19	286	13.257	10.728	1.24	10.561	8.728	2.696	(1.042)	<b>9.518</b>	126	90	<b>9.549</b>
oct-19	287	8.728	10.470	0.83	10.558	10.188	(1.830)	(798)	<b>9.760</b>	83	93	<b>9.772</b>
nov-19	288	10.188	10.589	0.96	10.556	13.248	(368)	1.293	<b>11.849</b>	97	112	<b>11.794</b>
dic-19	289	13.248	10.587	1.25	10.553	8.722	2.694	15	<b>10.569</b>	126	100	<b>10.578</b>
ene-20	290	8.722	10.329	0.84	10.551	10.181	(1.829)	(630)	<b>9.921</b>	83	94	<b>9.944</b>
feb-20	291	10.181	10.449	0.97	10.549	10.179	(368)	(487)	<b>10.062</b>	97	96	<b>10.078</b>
mar-20	292	10.179	10.447	0.97	10.546	10.176	(368)	(788)	<b>9.758</b>	97	93	<b>9.788</b>
abr-20	293	10.176	10.189	1.00	10.544	10.174	(368)	(32)	<b>10.512</b>	97	100	<b>10.515</b>
may-20	294	10.174	10.309	0.99	10.542	10.172	(368)	337	<b>10.879</b>	97	103	<b>10.863</b>
jun-20	295	10.172	10.306	0.99	10.539	10.169	(367)	1.351	<b>11.890</b>	97	112	<b>11.843</b>
jul-20	296	10.169	10.049	1.01	10.537	10.167	(367)	812	<b>11.349</b>	97	107	<b>11.322</b>

ago-20	297	10.167	10.169	1,00	10.534	10.165	(367)	(6)	<b>10.528</b>	97	100	<b>10.543</b>
sep-20	298	10.165	10.168	1,00	10.532	10.163	(367)	(1.042)	<b>9.490</b>	97	90	<b>9.524</b>
oct-20	299	10.163	10.167	1,00	10.530	10.160	(367)	(798)	<b>9.732</b>	97	93	<b>9.745</b>
nov-20	300	10.160	10.166	1,00	10.527	10.158	(367)	1.293	<b>11.820</b>	97	112	<b>11.762</b>
dic-20	301	10.158	10.165	1,00	10.525	10.156	(367)	15	<b>10.540</b>	97	100	<b>10.549</b>

● **Alimentador A7**

**Demanda (kVA)**

*CLASSICAL DECOMPOSITION TEMPLATE*

*ADDITIVE FORECAST METHOD*

*MULTIPLICATIVE FORECAST METHOD*

Slope of Trend Line		(1)										
Intercept		1.074										
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value (Tt)	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Multiplicative Forecast Value (Ft)
nov-15	240	629	673	0,93	732	1.046	(103)	177	908	86	119	873
dic-15	241	444	643	0,69	730	555	(286)	28	758	61	103	748
ene-16	242	555	620	0,90	729	554	(173)	(85)	<b>644</b>	76	91	<b>661</b>
feb-16	243	554	620	0,89	727	462	(173)	(195)	<b>532</b>	76	79	<b>573</b>
mar-16	244	462	622	0,74	726	438	(264)	(189)	<b>537</b>	64	79	<b>576</b>
abr-16	245	438	611	0,72	724	563	(286)	(72)	<b>653</b>	60	92	<b>666</b>
may-16	246	563	626	0,90	723	611	(160)	0	<b>723</b>	78	100	<b>726</b>
jun-16	247	611	648	0,94	722	887	(111)	126	<b>847</b>	85	114	<b>822</b>
jul-16	248	887	696	1,27	720	901	166	103	<b>823</b>	123	111	<b>802</b>
ago-16	249	901	695	1,30	719	755	182	3	<b>722</b>	125	101	<b>725</b>
sep-16	250	755	694	1,09	717	714	38	(39)	<b>678</b>	105	95	<b>685</b>
oct-16	251	714	693	1,03	716	891	(2)	114	<b>830</b>	100	112	<b>803</b>
nov-16	252	891	692	1,29	714	1.022	176	177	<b>891</b>	125	119	<b>852</b>
dic-16	253	1.022	691	1,48	713	542	309	28	<b>741</b>	143	103	<b>731</b>
ene-17	254	542	690	0,79	712	541	(169)	(85)	<b>627</b>	76	91	<b>645</b>
feb-17	255	541	688	0,79	710	451	(169)	(195)	<b>515</b>	76	79	<b>559</b>
mar-17	256	451	686	0,66	709	428	(258)	(189)	<b>520</b>	64	79	<b>562</b>
abr-17	257	428	685	0,62	707	550	(280)	(72)	<b>636</b>	60	92	<b>650</b>
may-17	258	550	683	0,80	706	596	(156)	0	<b>706</b>	78	100	<b>709</b>
jun-17	259	596	682	0,87	704	866	(108)	126	<b>830</b>	85	114	<b>802</b>
jul-17	260	866	680	1,27	703	880	163	103	<b>806</b>	123	111	<b>783</b>
ago-17	261	880	678	1,30	702	737	178	3	<b>705</b>	125	101	<b>708</b>
sep-17	262	737	677	1,09	700	697	37	(39)	<b>661</b>	105	95	<b>669</b>
oct-17	263	697	684	1,02	699	870	(2)	114	<b>813</b>	100	112	<b>784</b>
nov-17	264	870	692	1,26	697	998	172	177	<b>874</b>	125	119	<b>832</b>
dic-17	265	998	690	1,45	696	529	302	28	<b>724</b>	143	103	<b>713</b>
ene-18	266	529	684	0,77	694	528	(165)	(85)	<b>610</b>	76	91	<b>630</b>
feb-18	267	528	655	0,81	693	527	(165)	(195)	<b>498</b>	76	79	<b>546</b>

mar-18	268	527	625	0,84	692	526	(165)	(189)	503	76	79	549
abr-18	269	526	607	0,87	690	525	(164)	(72)	618	76	92	634
may-18	270	525	593	0,89	689	524	(164)	0	689	76	100	692
jun-18	271	524	563	0,93	687	523	(164)	126	813	76	114	783
jul-18	272	523	523	1,00	686	522	(163)	103	789	76	111	764
ago-18	273	522	522	1,00	685	521	(163)	3	687	76	101	690
sep-18	274	521	521	1,00	683	519	(163)	(39)	644	76	95	652
oct-18	275	519	520	1,00	682	518	(162)	114	795	76	112	765
nov-18	276	518	519	1,00	680	517	(162)	177	857	76	119	812
dic-18	277	517	518	1,00	679	516	(162)	28	707	76	103	696
ene-19	278	516	517	1,00	677	515	(161)	(85)	593	76	91	614
feb-19	279	515	516	1,00	676	514	(161)	(195)	481	76	79	532
mar-19	280	514	515	1,00	675	513	(161)	(189)	485	76	79	535
abr-19	281	513	513	1,00	673	512	(160)	(72)	601	76	92	619
may-19	282	512	512	1,00	672	511	(160)	0	672	76	100	675
jun-19	283	511	511	1,00	670	510	(159)	126	796	76	114	763
jul-19	284	510	510	1,00	669	509	(159)	103	772	76	111	745
ago-19	285	509	509	1,00	667	508	(159)	3	670	76	101	673
sep-19	286	508	508	1,00	666	506	(158)	(39)	627	76	95	636
oct-19	287	506	507	1,00	665	505	(158)	114	778	76	112	746
nov-19	288	505	506	1,00	663	504	(158)	177	840	76	119	791
dic-19	289	504	505	1,00	662	503	(157)	28	690	76	103	678
ene-20	290	503	504	1,00	660	502	(157)	(85)	576	76	91	599
feb-20	291	502	503	1,00	659	501	(157)	(195)	464	76	79	519
mar-20	292	501	502	1,00	657	500	(156)	(189)	468	76	79	521
abr-20	293	500	500	1,00	656	499	(156)	(72)	584	76	92	603
may-20	294	499	499	1,00	655	498	(156)	0	655	76	100	657
jun-20	295	498	498	1,00	653	497	(155)	126	779	76	114	744
jul-20	296	497	497	1,00	652	496	(155)	103	754	76	111	726
ago-20	297	496	497	1,00	650	495	(155)	3	653	76	101	656
sep-20	298	495	496	1,00	649	493	(154)	(39)	610	76	95	620
oct-20	299	493	496	1,00	647	492	(154)	114	761	76	112	726
nov-20	300	492	495	0,99	646	491	(154)	177	823	76	119	771
dic-20	301	491	495	0,99	645	490	(153)	28	673	76	103	661

### Energía (kWh)

#### CLASSICAL DECOMPOSITION TEMPLATE

#### ADDITIVE FORECAST METHOD

#### MULTIPLICATIVE FORECAST METHOD

Slope of Trend Line		(12)										
Intercept		10.444										
Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value
nov-15	240	4.960	5.376	0,92	7.448	10.791	(2.488)	1.514	8.961	67	117	8.693
dic-15	241	4.568	5.340	0,86	7.435	5.259	(2.867)	153	7.588	61	102	7.591

ene-16	242	5.259	5.370	0,98	7.423	5.251	(2.163)	(827)	<b>6.596</b>	71	90	<b>6.716</b>
feb-16	243	5.251	5.707	0,92	7.410	5.266	(2.160)	(847)	<b>6.563</b>	71	91	<b>6.748</b>
mar-16	244	5.266	5.816	0,91	7.398	4.980	(2.132)	(667)	<b>6.730</b>	71	93	<b>6.846</b>
abr-16	245	4.980	6.064	0,82	7.385	5.840	(2.406)	(396)	<b>6.989</b>	67	96	<b>7.067</b>
may-16	246	5.840	6.189	0,94	7.373	6.923	(1.533)	(9)	<b>7.364</b>	79	99	<b>7.334</b>
jun-16	247	6.923	6.581	1,05	7.360	9.616	(437)	1.434	<b>8.794</b>	94	116	<b>8.532</b>
jul-16	248	9.616	7.082	1,36	7.348	9.199	2.268	1.135	<b>8.482</b>	131	113	<b>8.278</b>
ago-16	249	9.199	7.073	1,30	7.335	6.334	1.864	5	<b>7.340</b>	125	101	<b>7.432</b>
sep-16	250	6.334	7.064	0,90	7.323	6.071	(988)	(1.698)	<b>5.625</b>	87	80	<b>5.856</b>
oct-16	251	6.071	7.055	0,86	7.310	9.670	(1.240)	(108)	<b>7.202</b>	83	97	<b>7.089</b>
nov-16	252	9.670	7.047	1,37	7.298	10.574	2.372	1.514	<b>8.812</b>	133	117	<b>8.518</b>
dic-16	253	10.574	7.037	1,50	7.285	5.153	3.289	153	<b>7.439</b>	145	102	<b>7.438</b>
ene-17	254	5.153	7.025	0,73	7.273	5.145	(2.119)	(827)	<b>6.446</b>	71	90	<b>6.581</b>
feb-17	255	5.145	7.009	0,73	7.260	5.159	(2.116)	(847)	<b>6.413</b>	71	91	<b>6.612</b>
mar-17	256	5.159	6.993	0,74	7.248	4.879	(2.089)	(667)	<b>6.581</b>	71	93	<b>6.708</b>
abr-17	257	4.879	6.983	0,70	7.235	5.722	(2.356)	(396)	<b>6.840</b>	67	96	<b>6.924</b>
may-17	258	5.722	6.972	0,82	7.223	6.782	(1.501)	(9)	<b>7.214</b>	79	99	<b>7.185</b>
jun-17	259	6.782	6.956	0,98	7.210	9.421	(428)	1.434	<b>8.644</b>	94	116	<b>8.358</b>
jul-17	260	9.421	6.938	1,36	7.198	9.012	2.223	1.135	<b>8.333</b>	131	113	<b>8.109</b>
ago-17	261	9.012	6.929	1,30	7.185	6.205	1.826	5	<b>7.190</b>	125	101	<b>7.280</b>
sep-17	262	6.205	6.920	0,90	7.173	5.947	(968)	(1.698)	<b>5.475</b>	87	80	<b>5.736</b>
oct-17	263	5.947	6.909	0,86	7.160	9.472	(1.214)	(108)	<b>7.052</b>	83	97	<b>6.944</b>
nov-17	264	9.472	6.921	1,37	7.148	10.357	2.324	1.514	<b>8.662</b>	133	117	<b>8.343</b>
dic-17	265	10.357	6.862	1,51	7.136	5.047	3.222	153	<b>7.289</b>	145	102	<b>7.285</b>
ene-18	266	5.047	6.714	0,75	7.123	5.039	(2.076)	(827)	<b>6.296</b>	71	90	<b>6.445</b>
feb-18	267	5.039	6.345	0,79	7.111	5.030	(2.072)	(847)	<b>6.263</b>	71	91	<b>6.475</b>
mar-18	268	5.030	6.009	0,84	7.098	5.021	(2.068)	(667)	<b>6.431</b>	71	93	<b>6.569</b>
abr-18	269	5.021	5.907	0,85	7.086	5.012	(2.065)	(396)	<b>6.690</b>	71	96	<b>6.780</b>
may-18	270	5.012	5.826	0,86	7.073	5.003	(2.061)	(9)	<b>7.064</b>	71	99	<b>7.036</b>
jun-18	271	5.003	5.449	0,92	7.061	4.994	(2.057)	1.434	<b>8.494</b>	71	116	<b>8.185</b>
jul-18	272	4.994	4.999	1,00	7.048	4.986	(2.054)	1.135	<b>8.183</b>	71	113	<b>7.941</b>
ago-18	273	4.986	4.990	1,00	7.036	4.977	(2.050)	5	<b>7.040</b>	71	101	<b>7.128</b>
sep-18	274	4.977	4.981	1,00	7.023	4.968	(2.046)	(1.698)	<b>5.325</b>	71	80	<b>5.616</b>
oct-18	275	4.968	4.972	1,00	7.011	4.959	(2.043)	(108)	<b>6.902</b>	71	97	<b>6.799</b>
nov-18	276	4.959	4.964	1,00	6.998	4.950	(2.039)	1.514	<b>8.512</b>	71	117	<b>8.168</b>
dic-18	277	4.950	4.955	1,00	6.986	4.942	(2.035)	153	<b>7.139</b>	71	102	<b>7.132</b>
ene-19	278	4.942	4.946	1,00	6.973	4.933	(2.032)	(827)	<b>6.146</b>	71	90	<b>6.310</b>
feb-19	279	4.933	4.937	1,00	6.961	4.924	(2.028)	(847)	<b>6.113</b>	71	91	<b>6.339</b>
mar-19	280	4.924	4.928	1,00	6.948	4.915	(2.024)	(667)	<b>6.281</b>	71	93	<b>6.431</b>
abr-19	281	4.915	4.919	1,00	6.936	4.906	(2.021)	(396)	<b>6.540</b>	71	96	<b>6.637</b>
may-19	282	4.906	4.911	1,00	6.923	4.897	(2.017)	(9)	<b>6.914</b>	71	99	<b>6.887</b>
jun-19	283	4.897	4.902	1,00	6.911	4.889	(2.013)	1.434	<b>8.345</b>	71	116	<b>8.011</b>
jul-19	284	4.889	4.893	1,00	6.898	4.880	(2.010)	1.135	<b>8.033</b>	71	113	<b>7.772</b>
ago-19	285	4.880	4.884	1,00	6.886	4.871	(2.006)	5	<b>6.890</b>	71	101	<b>6.976</b>
sep-19	286	4.871	4.875	1,00	6.873	4.862	(2.002)	(1.698)	<b>5.176</b>	71	80	<b>5.497</b>
oct-19	287	4.862	4.866	1,00	6.861	4.853	(1.999)	(108)	<b>6.753</b>	71	97	<b>6.654</b>
nov-19	288	4.853	4.858	1,00	6.848	4.844	(1.995)	1.514	<b>8.362</b>	71	117	<b>7.993</b>
dic-19	289	4.844	4.849	1,00	6.836	4.836	(1.992)	153	<b>6.989</b>	71	102	<b>6.979</b>

ene-20	290	4.836	4.840	1,00	6.823	4.827	(1.988)	(827)	<b>5.997</b>	71	90	<b>6.174</b>
feb-20	291	4.827	4.831	1,00	6.811	4.818	(1.984)	(847)	<b>5.964</b>	71	91	<b>6.203</b>
mar-20	292	4.818	4.822	1,00	6.798	4.809	(1.981)	(667)	<b>6.131</b>	71	93	<b>6.292</b>
abr-20	293	4.809	4.813	1,00	6.786	4.800	(1.977)	(396)	<b>6.390</b>	71	96	<b>6.494</b>
may-20	294	4.800	4.805	1,00	6.773	4.791	(1.973)	(9)	<b>6.764</b>	71	99	<b>6.738</b>
jun-20	295	4.791	4.796	1,00	6.761	4.783	(1.970)	1.434	<b>8.195</b>	71	116	<b>7.837</b>
jul-20	296	4.783	4.787	1,00	6.749	4.774	(1.966)	1.135	<b>7.883</b>	71	113	<b>7.603</b>
ago-20	297	4.774	4.783	1,00	6.736	4.765	(1.962)	5	<b>6.741</b>	71	101	<b>6.824</b>
sep-20	298	4.765	4.778	1,00	6.724	4.756	(1.959)	(1.698)	<b>5.026</b>	71	80	<b>5.377</b>
oct-20	299	4.756	4.774	1,00	6.711	4.747	(1.955)	(108)	<b>6.603</b>	71	97	<b>6.508</b>
nov-20	300	4.747	4.769	1,00	6.699	4.738	(1.951)	1.514	<b>8.212</b>	71	117	<b>7.819</b>
dic-20	301	4.738	4.765	0,99	6.686	4.730	(1.948)	153	<b>6.839</b>	71	102	<b>6.826</b>

- Alimentador A68

**Demanda (kVA)**

*CLASSICAL DECOMPOSITION TEMPLATE*

*ADDITIVE FORECAST METHOD*

*MULTIPLICATIVE FORECAST METHOD*

Slope of Trend Line		(5)										
Intercept		7.593										
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value (Ft)
nov-15	240	4.019	5.692	1	6.363	6.840	(2.344)	234	<b>6.597</b>	63	103	<b>6.565</b>
dic-15	241	4.262	5.782	1	6.358	6.834	(2.096)	(177)	<b>6.181</b>	67	98	<b>6.202</b>
ene-16	242	6.834	5.872	1	6.353	6.829	482	(208)	<b>6.145</b>	108	97	<b>6.174</b>
feb-16	243	6.829	5.961	1	6.348	6.823	481	(422)	<b>5.926</b>	108	94	<b>5.968</b>
mar-16	244	6.823	6.069	1	6.342	6.818	481	(263)	<b>6.079</b>	108	96	<b>6.111</b>
abr-16	245	6.818	6.176	1	6.337	6.812	481	194	<b>6.531</b>	108	103	<b>6.511</b>
may-16	246	6.812	6.365	1	6.332	6.807	480	674	<b>7.006</b>	108	110	<b>6.941</b>
jun-16	247	6.807	6.595	1	6.327	6.801	480	803	<b>7.130</b>	108	112	<b>7.056</b>
jul-16	248	6.801	6.804	1	6.322	6.796	479	308	<b>6.630</b>	108	104	<b>6.599</b>
ago-16	249	6.796	6.799	1	6.317	6.790	479	(388)	<b>5.929</b>	108	94	<b>5.969</b>
sep-16	250	6.790	6.793	1	6.312	6.785	479	(534)	<b>5.778</b>	108	92	<b>5.819</b>
oct-16	251	6.785	6.788	1	6.307	6.779	478	30	<b>6.337</b>	108	100	<b>6.322</b>
nov-16	252	6.779	6.782	1	6.301	6.774	478	234	<b>6.535</b>	108	103	<b>6.502</b>
dic-16	253	6.774	6.777	1	6.296	6.768	477	(177)	<b>6.119</b>	108	98	<b>6.142</b>
ene-17	254	6.768	6.771	1	6.291	6.763	477	(208)	<b>6.083</b>	108	97	<b>6.114</b>
feb-17	255	6.763	6.766	1	6.286	6.757	477	(422)	<b>5.865</b>	108	94	<b>5.910</b>
mar-17	256	6.757	6.760	1	6.281	6.752	476	(263)	<b>6.018</b>	108	96	<b>6.052</b>
abr-17	257	6.752	6.754	1	6.276	6.746	476	194	<b>6.470</b>	108	103	<b>6.448</b>
may-17	258	6.746	6.749	1	6.271	6.741	476	674	<b>6.944</b>	108	110	<b>6.874</b>
jun-17	259	6.741	6.743	1	6.266	6.735	475	803	<b>7.068</b>	108	112	<b>6.988</b>
jul-17	260	6.735	6.738	1	6.260	6.730	475	308	<b>6.568</b>	108	104	<b>6.534</b>

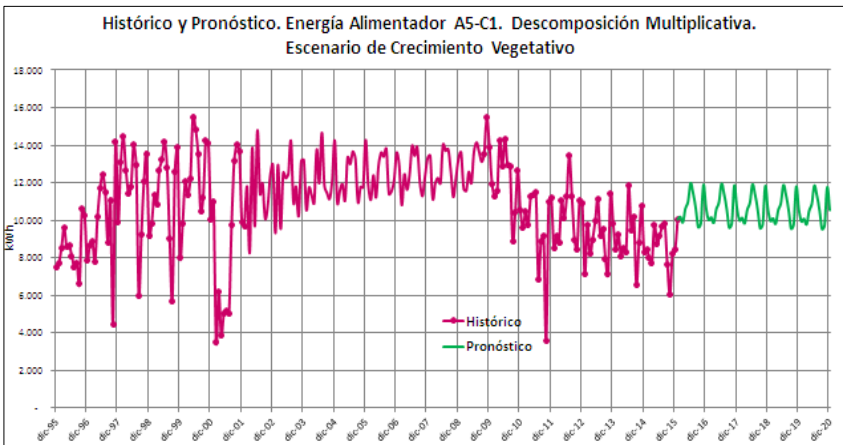
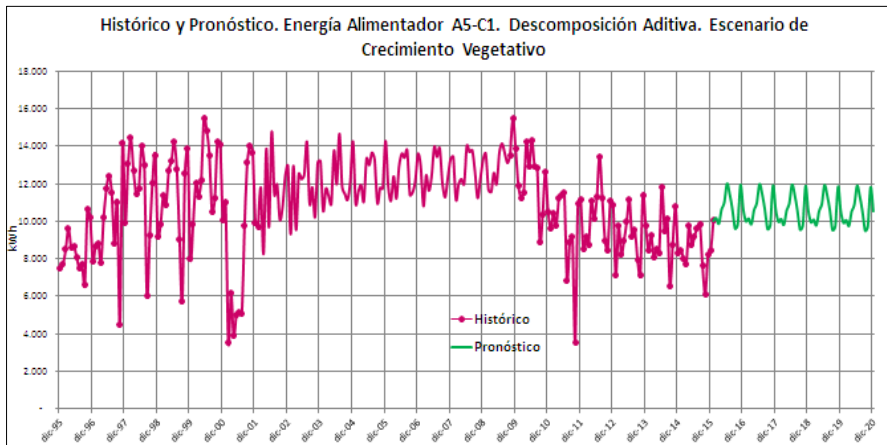
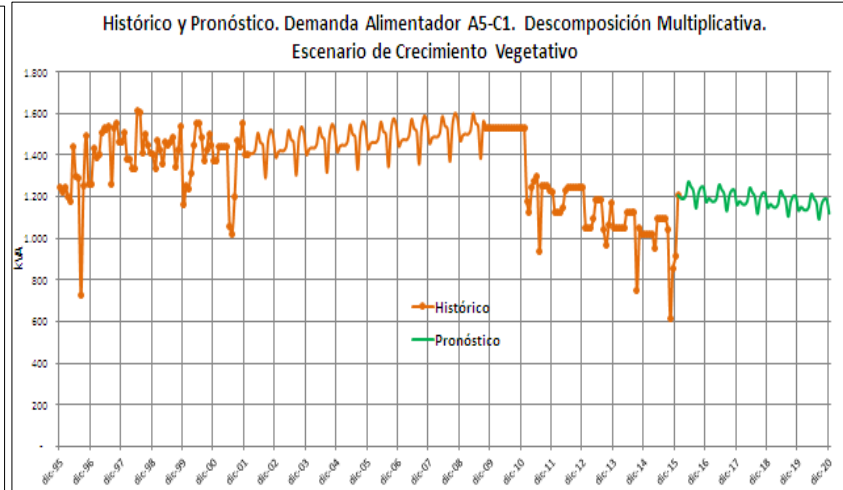
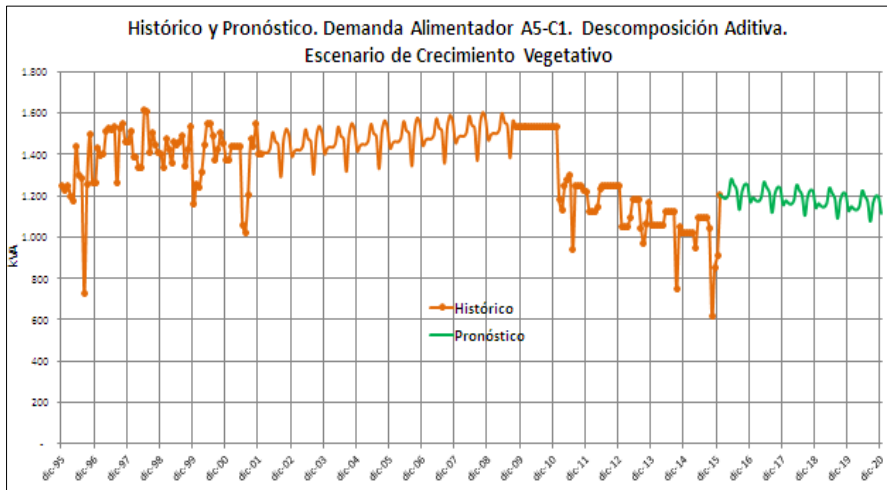


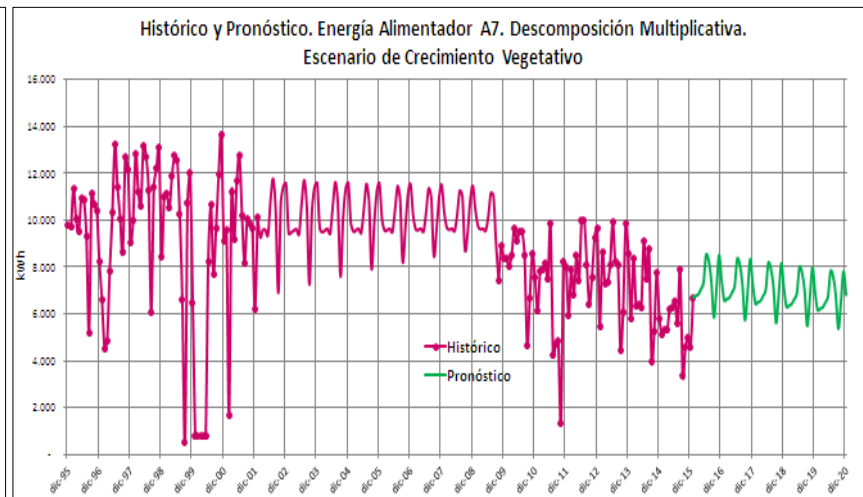
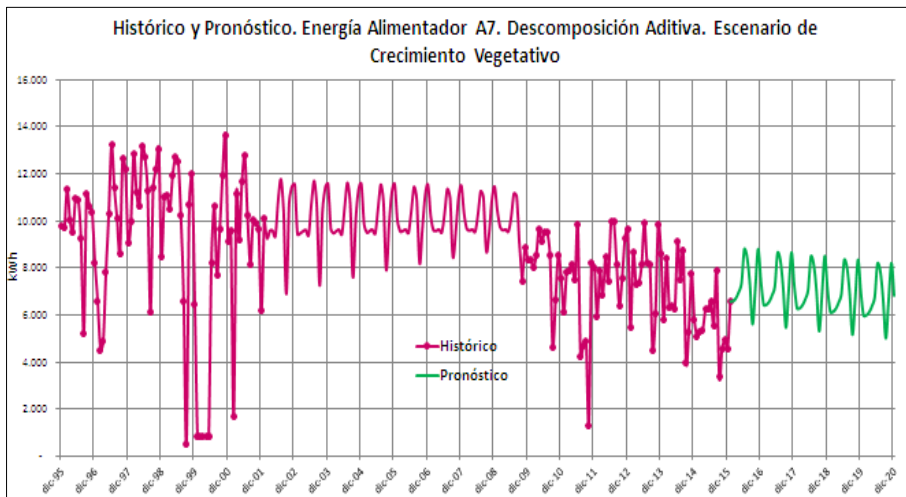
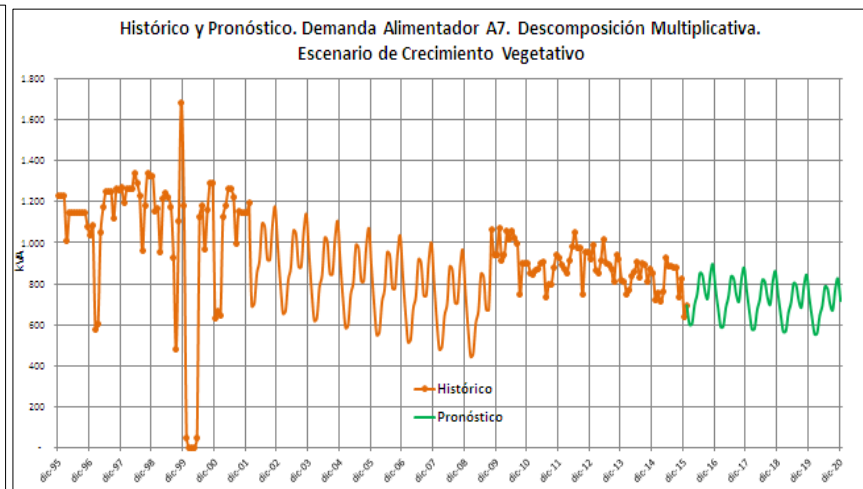
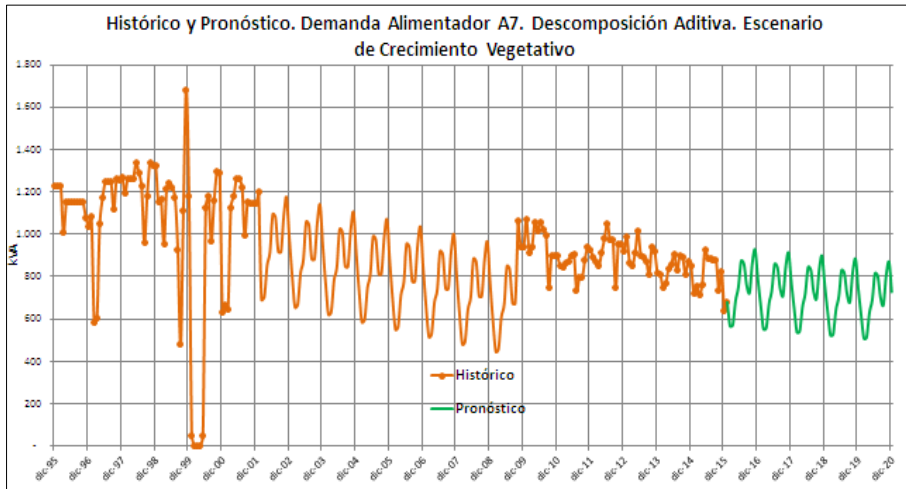
ago-17	261	6.730	6.732	1	6.255	6.724	474	(388)	<b>5.867</b>	108	94	<b>5.911</b>
sep-17	262	6.724	6.727	1	6.250	6.719	474	(534)	<b>5.716</b>	108	92	<b>5.762</b>
oct-17	263	6.719	6.721	1	6.245	6.713	474	30	<b>6.275</b>	108	100	<b>6.261</b>
nov-17	264	6.713	6.716	1	6.240	6.708	473	234	<b>6.474</b>	108	103	<b>6.438</b>
dic-17	265	6.708	6.710	1	6.235	6.702	473	(177)	<b>6.058</b>	108	98	<b>6.082</b>
ene-18	266	6.702	6.705	1	6.230	6.697	472	(208)	<b>6.022</b>	108	97	<b>6.055</b>
feb-18	267	6.697	6.699	1	6.225	6.691	472	(422)	<b>5.803</b>	108	94	<b>5.852</b>
mar-18	268	6.691	6.694	1	6.219	6.686	472	(263)	<b>5.956</b>	108	96	<b>5.993</b>
abr-18	269	6.686	6.688	1	6.214	6.680	471	194	<b>6.408</b>	108	103	<b>6.385</b>
may-18	270	6.680	6.683	1	6.209	6.675	471	674	<b>6.883</b>	108	110	<b>6.807</b>
jun-18	271	6.675	6.677	1	6.204	6.669	471	803	<b>7.007</b>	108	112	<b>6.919</b>
jul-18	272	6.669	6.672	1	6.199	6.664	470	308	<b>6.507</b>	108	104	<b>6.470</b>
ago-18	273	6.664	6.666	1	6.194	6.658	470	(388)	<b>5.806</b>	108	94	<b>5.853</b>
sep-18	274	6.658	6.661	1	6.189	6.653	469	(534)	<b>5.655</b>	108	92	<b>5.706</b>
oct-18	275	6.653	6.655	1	6.184	6.647	469	30	<b>6.214</b>	108	100	<b>6.199</b>
nov-18	276	6.647	6.650	1	6.178	6.642	469	234	<b>6.412</b>	108	103	<b>6.375</b>
dic-18	277	6.642	6.644	1	6.173	6.636	468	(177)	<b>5.996</b>	108	98	<b>6.022</b>
ene-19	278	6.636	6.639	1	6.168	6.631	468	(208)	<b>5.960</b>	108	97	<b>5.995</b>
feb-19	279	6.631	6.633	1	6.163	6.625	467	(422)	<b>5.742</b>	108	94	<b>5.794</b>
mar-19	280	6.625	6.628	1	6.158	6.620	467	(263)	<b>5.895</b>	108	96	<b>5.933</b>
abr-19	281	6.620	6.622	1	6.153	6.614	467	194	<b>6.347</b>	108	103	<b>6.322</b>
may-19	282	6.614	6.617	1	6.148	6.608	466	674	<b>6.821</b>	108	110	<b>6.739</b>
jun-19	283	6.608	6.611	1	6.143	6.603	466	803	<b>6.945</b>	108	112	<b>6.851</b>
jul-19	284	6.603	6.606	1	6.137	6.597	466	308	<b>6.445</b>	108	104	<b>6.406</b>
ago-19	285	6.597	6.600	1	6.132	6.592	465	(388)	<b>5.744</b>	108	94	<b>5.795</b>
sep-19	286	6.592	6.595	1	6.127	6.586	465	(534)	<b>5.593</b>	108	92	<b>5.649</b>
oct-19	287	6.586	6.589	1	6.122	6.581	464	30	<b>6.152</b>	108	100	<b>6.138</b>
nov-19	288	6.581	6.584	1	6.117	6.575	464	234	<b>6.351</b>	108	103	<b>6.311</b>
dic-19	289	6.575	6.578	1	6.112	6.570	464	(177)	<b>5.935</b>	108	98	<b>5.962</b>
ene-20	290	6.570	6.573	1	6.107	6.564	463	(208)	<b>5.899</b>	108	97	<b>5.935</b>
feb-20	291	6.564	6.567	1	6.102	6.559	463	(422)	<b>5.680</b>	108	94	<b>5.736</b>
mar-20	292	6.559	6.562	1	6.096	6.553	462	(263)	<b>5.833</b>	108	96	<b>5.874</b>
abr-20	293	6.553	6.556	1	6.091	6.548	462	194	<b>6.285</b>	108	103	<b>6.259</b>
may-20	294	6.548	6.551	1	6.086	6.542	462	674	<b>6.760</b>	108	110	<b>6.672</b>
jun-20	295	6.542	6.545	1	6.081	6.537	461	803	<b>6.884</b>	108	112	<b>6.782</b>
jul-20	296	6.537	6.540	1	6.076	6.531	461	308	<b>6.384</b>	108	104	<b>6.342</b>
ago-20	297	6.531	6.537	1	6.071	6.526	461	(388)	<b>5.683</b>	108	94	<b>5.737</b>
sep-20	298	6.526	6.534	1	6.066	6.520	460	(534)	<b>5.532</b>	108	92	<b>5.592</b>
oct-20	299	6.520	6.531	1	6.061	6.515	460	30	<b>6.091</b>	108	100	<b>6.076</b>
nov-20	300	6.515	6.529	1	6.055	6.509	459	234	<b>6.289</b>	108	103	<b>6.248</b>
dic-20	301	6.509	6.526	1	6.050	6.504	459	(177)	<b>5.873</b>	108	98	<b>5.902</b>

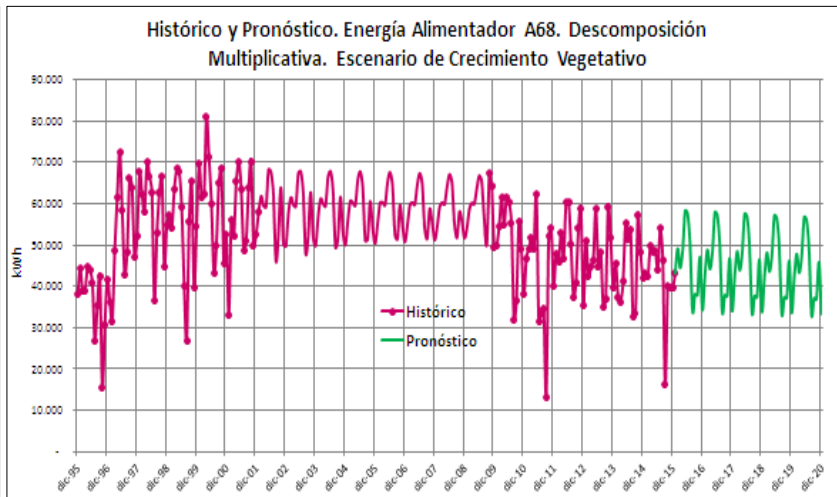
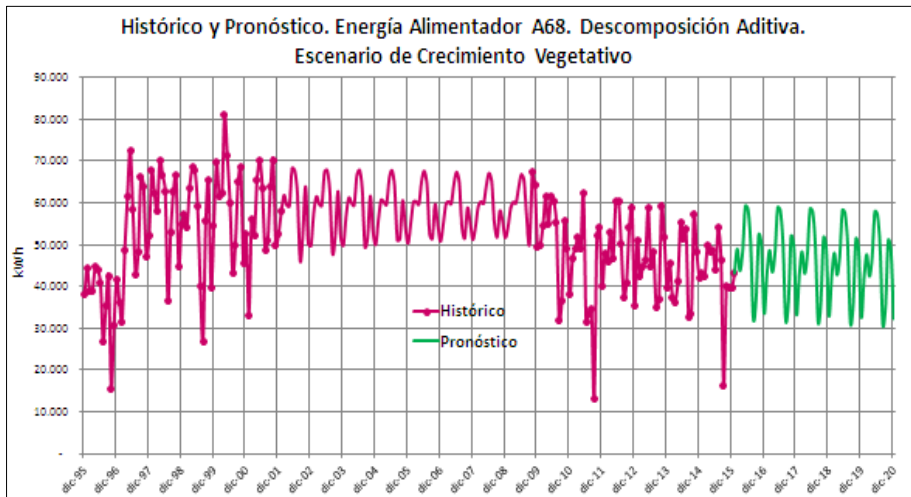
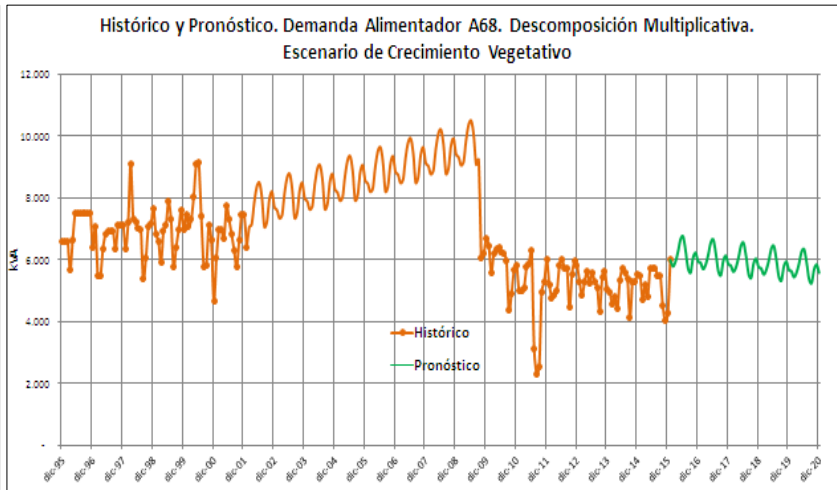
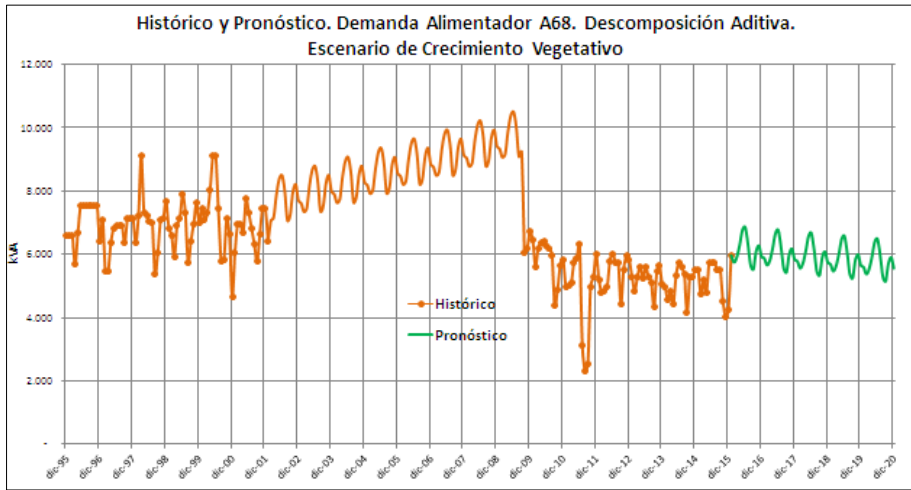
## Energía (kWh)

CLASSICAL DECOMPOSITION TEMPLATE							ADDITIVE FORECAST METHOD			MULTIPLICATIVE FORECAST METHOD		
Slope of Trend Line		(28)										
Intercept		56,494										
Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast (Tt)	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Multiplicative Forecast Value (Ft)
nov-15	240	40.107	43.380	0,92	49.889	56.744	(9.782)	365	<b>50.254</b>	80	95	<b>47.360</b>
dic-15	241	39.845	43.811	0,91	49.862	39.590	(10.017)	(15.884)	<b>33.977</b>	80	69	<b>34.533</b>
ene-16	242	39.590	44.974	0,88	49.834	47.806	(10.244)	(6.656)	<b>43.178</b>	79	87	<b>43.169</b>
feb-16	243	47.806	46.574	1,03	49.807	49.939	(2.001)	(816)	<b>48.990</b>	96	99	<b>49.156</b>
mar-16	244	49.939	46.613	1,07	49.779	45.440	160	(6.002)	<b>43.777</b>	100	89	<b>44.492</b>
abr-16	245	45.440	47.282	0,96	49.752	53.487	(4.312)	(1.543)	<b>48.208</b>	91	97	<b>48.442</b>
may-16	246	53.487	50.464	1,06	49.724	62.587	3.763	9.460	<b>59.184</b>	108	117	<b>58.262</b>
jun-16	247	62.587	51.662	1,21	49.697	63.175	12.890	8.736	<b>58.432</b>	126	116	<b>57.555</b>
jul-16	248	63.175	52.878	1,19	49.669	54.563	13.506	631	<b>50.300</b>	127	101	<b>50.278</b>
ago-16	249	54.563	54.113	1,01	49.642	54.533	4.921	(17.595)	<b>32.047</b>	110	68	<b>33.962</b>
sep-16	250	54.533	54.661	1,00	49.614	54.502	4.919	(12.829)	<b>36.785</b>	110	77	<b>38.168</b>
oct-16	251	54.502	55.029	0,99	49.586	54.472	4.916	2.752	<b>52.338</b>	110	77	<b>37.940</b>
nov-16	252	54.472	55.769	0,98	49.559	54.442	4.913	365	<b>49.923</b>	110	95	<b>47.046</b>
dic-16	253	54.442	55.836	0,98	49.531	54.412	4.911	(15.884)	<b>33.647</b>	110	69	<b>34.304</b>
ene-17	254	54.412	55.142	0,99	49.504	54.382	4.908	(6.656)	<b>42.847</b>	110	87	<b>42.883</b>
feb-17	255	54.382	54.397	1,00	49.476	54.351	4.905	(816)	<b>48.660</b>	110	99	<b>48.830</b>
mar-17	256	54.351	54.366	1,00	49.449	54.321	4.902	(6.002)	<b>43.447</b>	110	89	<b>44.197</b>
abr-17	257	54.321	54.336	1,00	49.421	54.291	4.900	(1.543)	<b>47.878</b>	110	97	<b>48.120</b>
may-17	258	54.291	54.306	1,00	49.394	54.261	4.897	9.460	<b>58.853</b>	110	117	<b>57.875</b>
jun-17	259	54.261	54.276	1,00	49.366	54.230	4.894	8.736	<b>58.102</b>	110	116	<b>57.173</b>
jul-17	260	54.230	54.246	1,00	49.339	54.200	4.892	631	<b>49.970</b>	110	101	<b>49.944</b>
ago-17	261	54.200	54.215	1,00	49.311	54.170	4.889	(17.595)	<b>31.716</b>	110	68	<b>33.736</b>
sep-17	262	54.170	54.185	1,00	49.284	54.140	4.886	(12.829)	<b>36.455</b>	110	77	<b>37.914</b>
oct-17	263	54.140	54.155	1,00	49.256	54.109	4.883	2.752	<b>52.008</b>	110	77	<b>37.687</b>
nov-17	264	54.109	54.125	1,00	49.229	54.079	4.881	365	<b>49.593</b>	110	95	<b>46.733</b>
dic-17	265	54.079	54.094	1,00	49.201	54.049	4.878	(15.884)	<b>33.317</b>	110	69	<b>34.076</b>
ene-18	266	54.049	54.064	1,00	49.174	54.019	4.875	(6.656)	<b>42.517</b>	110	87	<b>42.597</b>
feb-18	267	54.019	54.034	1,00	49.146	53.989	4.873	(816)	<b>48.330</b>	110	99	<b>48.504</b>
mar-18	268	53.989	54.004	1,00	49.119	53.958	4.870	(6.002)	<b>43.116</b>	110	89	<b>43.902</b>
abr-18	269	53.958	53.973	1,00	49.091	53.928	4.867	(1.543)	<b>47.548</b>	110	97	<b>47.799</b>
may-18	270	53.928	53.943	1,00	49.064	53.898	4.864	9.460	<b>58.523</b>	110	117	<b>57.488</b>
jun-18	271	53.898	53.913	1,00	49.036	53.868	4.862	8.736	<b>57.772</b>	110	116	<b>56.790</b>
jul-18	272	53.868	53.883	1,00	49.009	53.837	4.859	631	<b>49.640</b>	110	101	<b>49.609</b>
ago-18	273	53.837	53.853	1,00	48.981	53.807	4.856	(17.595)	<b>31.386</b>	110	68	<b>33.510</b>
sep-18	274	53.807	53.822	1,00	48.954	53.777	4.854	(12.829)	<b>36.125</b>	110	77	<b>37.660</b>
oct-18	275	53.777	53.792	1,00	48.926	53.747	4.851	2.752	<b>51.678</b>	110	77	<b>37.434</b>
nov-18	276	53.747	53.762	1,00	48.899	53.717	4.848	365	<b>49.263</b>	110	95	<b>46.419</b>
dic-18	277	53.717	53.732	1,00	48.871	53.686	4.846	(15.884)	<b>32.987</b>	110	69	<b>33.847</b>

ene-19	278	53.686	53.701	1,00	48.843	53.656	4.843	(6.656)	<b>42.187</b>	110	87	<b>42.311</b>
feb-19	279	53.656	53.671	1,00	48.816	53.626	4.840	(816)	<b>48.000</b>	110	99	<b>48.178</b>
mar-19	280	53.626	53.641	1,00	48.788	53.596	4.837	(6.002)	<b>42.786</b>	110	89	<b>43.606</b>
abr-19	281	53.596	53.611	1,00	48.761	53.565	4.835	(1.543)	<b>47.218</b>	110	97	<b>47.477</b>
may-19	282	53.565	53.580	1,00	48.733	53.535	4.832	9.460	<b>58.193</b>	110	117	<b>57.101</b>
jun-19	283	53.535	53.550	1,00	48.706	53.505	4.829	8.736	<b>57.441</b>	110	116	<b>56.408</b>
jul-19	284	53.505	53.520	1,00	48.678	53.475	4.827	631	<b>49.310</b>	110	101	<b>49.275</b>
ago-19	285	53.475	53.490	1,00	48.651	53.444	4.824	(17.595)	<b>31.056</b>	110	68	<b>33.284</b>
sep-19	286	53.444	53.460	1,00	48.623	53.414	4.821	(12.829)	<b>35.794</b>	110	77	<b>37.406</b>
oct-19	287	53.414	53.429	1,00	48.596	53.384	4.818	2.752	<b>51.348</b>	110	77	<b>37.182</b>
nov-19	288	53.384	53.399	1,00	48.568	53.354	4.816	365	<b>48.933</b>	110	95	<b>46.106</b>
dic-19	289	53.354	53.369	1,00	48.541	53.324	4.813	(15.884)	<b>32.656</b>	110	69	<b>33.618</b>
ene-20	290	53.324	53.339	1,00	48.513	53.293	4.810	(6.656)	<b>41.857</b>	110	87	<b>42.025</b>
feb-20	291	53.293	53.308	1,00	48.486	53.263	4.808	(816)	<b>47.669</b>	110	99	<b>47.853</b>
mar-20	292	53.263	53.278	1,00	48.458	53.233	4.805	(6.002)	<b>42.456</b>	110	89	<b>43.311</b>
abr-20	293	53.233	53.248	1,00	48.431	53.203	4.802	(1.543)	<b>46.888</b>	110	97	<b>47.156</b>
may-20	294	53.203	53.218	1,00	48.403	53.172	4.799	9.460	<b>57.863</b>	110	117	<b>56.714</b>
jun-20	295	53.172	53.187	1,00	48.376	53.142	4.797	8.736	<b>57.111</b>	110	116	<b>56.026</b>
jul-20	296	53.142	53.157	1,00	48.348	53.112	4.794	631	<b>48.980</b>	110	101	<b>48.941</b>
ago-20	297	53.112	53.142	1,00	48.321	53.082	4.791	(17.595)	<b>30.726</b>	110	68	<b>33.058</b>
sep-20	298	53.082	53.127	1,00	48.293	53.051	4.789	(12.829)	<b>35.464</b>	110	77	<b>37.152</b>
oct-20	299	53.051	53.112	1,00	48.266	53.021	4.786	2.752	<b>51.017</b>	110	77	<b>36.929</b>
nov-20	300	53.021	53.097	1,00	48.238	52.991	4.783	365	<b>48.603</b>	110	95	<b>45.792</b>
dic-20	301	52.991	53.082	1,00	48.211	52.961	4.780	(15.884)	<b>32.326</b>	110	69	<b>33.390</b>







[ANEXO N°6]

Nuevas Cargas UCV

<b>Edificación</b>	Edificio Sede de los estudios de pregrado de la Facultad de Ciencias Jurídicas y Sociales	Edificio Sede de los estudios de Postgrado de la Facultad de Ciencias Jurídicas y Sociales	Edificio sede de la Escuela de Arte e Idiomas modernos	Edificio Sede de las Escuelas de Bioanálisis y Nutrición y Dietética	Polideportivo Sierra Maestra	Alumbrado público en Sector noroeste de la CUC	Sistema de Climatización Núcleo de edificios Rectorado - Aula Magna - Sala de Conciertos - Biblioteca Central
<b>Etapas del proyecto</b>	en programación	fundaciones próxima ejecución	en programación	en programación	en programación	en programación	en proyecto próxima ejecución
<b>Carga estimada (kVA)</b>	1.655	1.655	562	918	1.000	-	2.000
<b>Demanda estimada (kVA)</b>	648	648	318	508	800		1.143
<b>Energía estimada (kWh/mes)</b>	5.187	5.187	2.540	4.061	6.400	-	9.143
<b>Dimensiones (m2)</b>	15674	15674	6393	9200	N/D	N/D	N/D
<b>Punto de Suministro</b>	A8-C3	A7	A8-C6	A8-C4	A8	A8	A7
<b>Escenario de Conexión</b>	Largo plazo	Mediano plazo	Largo plazo	Largo plazo	Largo plazo	Largo plazo	Corto plazo

## [ANEXO N°7]

### Pronóstico a corto y mediano plazo bajo escenario de nuevas cargas

- ✓ Método de Suavizado Exponencial de Holt-Winters
- Alimentador A7

#### Demanda (kVA)

Alpha	Beta	Gamma				
0,40	0,50	-				

Date Data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Ti)	Smoothed Seasonal (Ii)	Forecast (Ft)
nov-15	240	629	732	0,00	1,01	875
dic-15	241	444	649	0,00	0,87	1.854
ene-16	242	<b>1.854</b>	1.065	0,00	1,20	1.735
feb-16	243	<b>1.735</b>	1.358	0,00	1,00	2.046
mar-16	244	<b>2.046</b>	1.699	0,00	0,96	2.258
abr-16	245	<b>2.258</b>	1.941	0,00	0,99	2.674
may-16	246	<b>2.674</b>	2.112	0,00	1,14	3.210
jun-16	247	<b>3.210</b>	2.386	0,00	1,16	3.383
jul-16	248	<b>3.383</b>	2.694	0,00	1,08	3.509
ago-16	249	<b>3.509</b>	2.969	0,00	1,05	3.762
sep-16	250	<b>3.762</b>	3.379	0,00	0,95	3.719
oct-16	251	<b>3.719</b>	3.585	0,00	0,96	4.232
nov-16	252	<b>4.232</b>	3.763	0,00	1,05	4.774
dic-16	253	<b>4.774</b>	4.277	0,00	0,96	4.423
ene-17	254	<b>4.423</b>	4.098	0,00	1,16	6.286
feb-17	255	<b>6.286</b>	4.757	0,00	1,11	5.235
mar-17	256	<b>5.235</b>	4.974	0,00	0,99	5.688
abr-17	257	<b>5.688</b>	5.200	0,00	1,03	6.082
may-17	258	<b>6.082</b>	5.247	0,00	1,14	7.047
jun-17	259	<b>7.047</b>	5.495	0,00	1,20	7.230
jul-17	260	<b>7.230</b>	5.848	0,00	1,14	7.100
ago-17	261	<b>7.100</b>	6.130	0,00	1,09	7.257
sep-17	262	<b>7.257</b>	6.574	0,00	1,01	6.989
oct-17	263	<b>6.989</b>	6.792	0,00	0,98	7.436
nov-17	264	<b>7.436</b>	6.876	0,00	1,06	8.287
dic-17	265	<b>8.287</b>	7.410	0,00	1,01	8.372
ene-18	266	<b>8.372</b>	7.354	0,00	1,15	10.382
feb-18	267	<b>10.382</b>	7.950	0,00	1,18	9.965
mar-18	268	<b>9.965</b>	8.586	0,00	1,05	9.656
abr-18	269	<b>9.656</b>	8.828	0,00	1,05	10.620
may-18	270	<b>10.620</b>	8.965	0,00	1,16	11.887
jun-18	271	<b>11.887</b>	9.240	0,00	1,23	12.576
jul-18	272	<b>12.576</b>	9.785	0,00	1,19	12.301
ago-18	273	<b>12.301</b>	10.251	0,00	1,13	12.408
sep-18	274	<b>12.408</b>	10.875	0,00	1,05	12.106
oct-18	275	<b>12.106</b>	11.309	0,00	1,01	12.474
nov-18	276	<b>12.474</b>	11.440	0,00	1,07	13.803
dic-18	277	<b>13.803</b>	12.093	0,00	1,06	13.386
ene-19	278	<b>13.386</b>	11.951	0,00	1,14	15.723
feb-19	279	<b>15.723</b>	12.364	0,00	1,21	15.889
mar-19	280	<b>15.889</b>	13.198	0,00	1,10	14.765
abr-19	281	<b>14.765</b>	13.452	0,00	1,07	15.664
may-19	282	<b>15.664</b>	13.475	0,00	1,16	17.369
jun-19	283	<b>17.369</b>	13.661	0,00	1,25	18.395
jul-19	284	<b>18.395</b>	14.203	0,00	1,23	18.036
ago-19	285	<b>18.036</b>	14.751	0,00	1,16	17.773
sep-19	286	<b>17.773</b>	15.387	0,00	1,09	17.330
oct-19	287	<b>17.330</b>	15.902	0,00	1,04	17.381
nov-19	288	<b>17.381</b>	15.996	0,00	1,08	18.839
dic-19	289	<b>18.839</b>	16.537	0,00	1,09	18.719
ene-20	290	<b>18.719</b>	16.498	0,00	1,14	20.657
feb-20	291	<b>20.657</b>	16.663	0,00	1,22	21.784

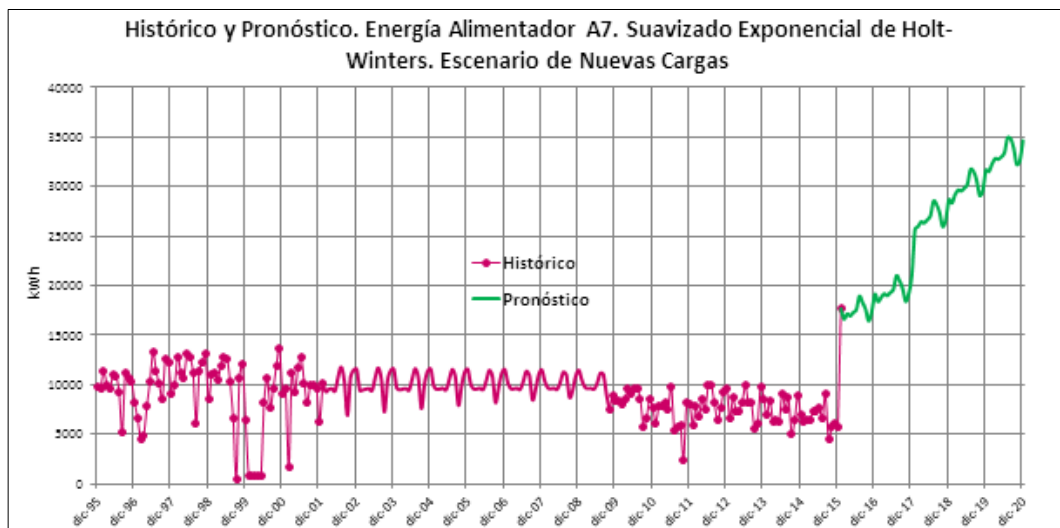
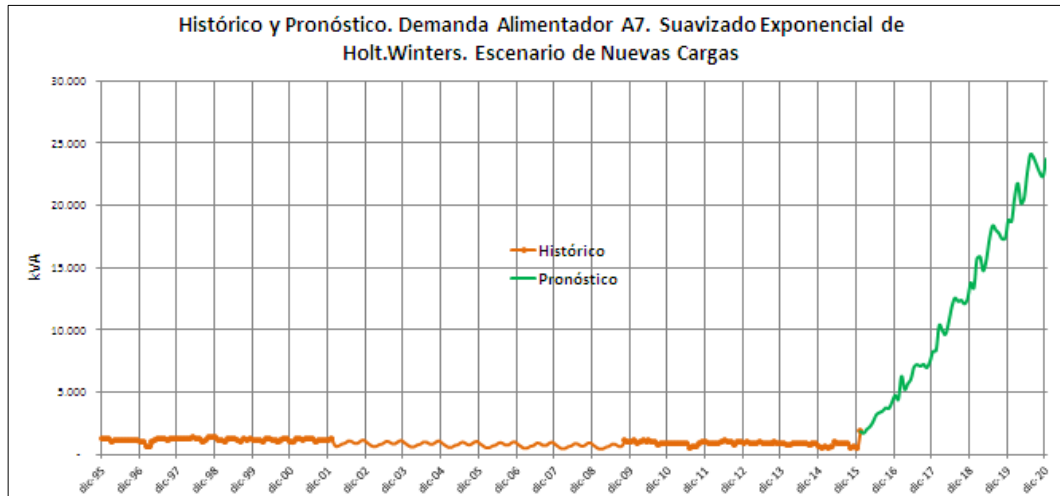


mar-20	292	21.784	17.587	0,00	1,15	20.177
abr-20	293	20.177	17.981	0,00	1,09	20.564
may-20	294	20.564	17.907	0,00	1,16	22.642
jun-20	295	22.642	17.987	0,00	1,25	24.102
jul-20	296	24.102	18.487	0,00	1,25	23.847
ago-20	297	23.847	19.112	0,00	1,19	23.225
sep-20	298	23.225	19.776	0,00	1,12	22.604
oct-20	299	22.604	20.364	0,00	1,06	22.358
nov-20	300	22.358	20.482	0,00	1,08	23.725
dic-20	301	23.725	20.888	0,00	1,10	24.046

### Energía (kWh)

Alpha	Beta	Gamma
0,20	0,10	-

Date Period (Mmm-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	240	6.058	8.915	0,00	1,01	9.318
dic-15	241	5.666	8.885	0,00	0,92	17.655
ene-16	242	17.655	9.007	0,00	0,95	16.609
feb-16	243	16.609	9.103	0,00	0,98	17.159
mar-16	244	17.159	9.213	0,00	0,96	16.935
abr-16	245	16.935	9.312	0,00	0,98	17.291
may-16	246	17.291	9.410	0,00	1,00	17.579
jun-16	247	17.579	9.485	0,00	1,12	18.936
jul-16	248	18.936	9.586	0,00	1,07	18.318
ago-16	249	18.318	9.697	0,00	0,98	17.614
sep-16	250	17.614	9.835	0,00	0,86	16.429
oct-16	251	16.429	9.933	0,00	0,92	17.363
nov-16	252	17.363	10.006	0,00	1,08	19.129
dic-16	253	19.129	10.113	0,00	1,02	18.380
ene-17	254	18.380	10.205	0,00	1,04	18.774
feb-17	255	18.774	10.294	0,00	1,07	19.180
mar-17	256	19.180	10.392	0,00	1,05	18.990
abr-17	257	18.990	10.482	0,00	1,06	19.305
may-17	258	19.305	10.570	0,00	1,08	19.616
jun-17	259	19.616	10.640	0,00	1,19	21.003
jul-17	260	21.003	10.730	0,00	1,16	20.508
ago-17	261	20.508	10.831	0,00	1,08	19.704
sep-17	262	19.704	10.953	0,00	0,95	18.407
oct-17	263	18.407	11.044	0,00	0,99	19.193
nov-17	264	19.193	11.112	0,00	1,14	21.053
dic-17	265	21.053	11.207	0,00	1,11	25.660
ene-18	266	25.660	11.342	0,00	1,16	25.950
feb-18	267	25.950	11.472	0,00	1,19	26.435
mar-18	268	26.435	11.610	0,00	1,17	26.321
abr-18	269	26.321	11.742	0,00	1,18	26.648
may-18	270	26.648	11.871	0,00	1,20	27.030
jun-18	271	27.030	11.979	0,00	1,30	28.503
jul-18	272	28.503	12.105	0,00	1,28	28.187
ago-18	273	28.187	12.246	0,00	1,20	27.342
sep-18	274	27.342	12.412	0,00	1,07	25.957
oct-18	275	25.957	12.549	0,00	1,10	26.646
nov-18	276	26.646	12.657	0,00	1,24	28.674
dic-18	277	28.674	12.790	0,00	1,22	28.323
ene-19	278	28.323	12.906	0,00	1,26	29.159
feb-19	279	29.159	13.023	0,00	1,29	29.646
mar-19	280	29.646	13.146	0,00	1,28	29.546
abr-19	281	29.546	13.265	0,00	1,28	29.830
may-19	282	29.830	13.381	0,00	1,30	30.220
jun-19	283	30.220	13.480	0,00	1,39	31.729
jul-19	284	31.729	13.594	0,00	1,38	31.539
ago-19	285	31.539	13.721	0,00	1,31	30.610
sep-19	286	30.610	13.869	0,00	1,19	29.077
oct-19	287	29.077	13.994	0,00	1,20	29.584
nov-19	288	29.584	14.093	0,00	1,33	31.672
dic-19	289	31.672	14.212	0,00	1,32	31.512
ene-20	290	31.512	14.319	0,00	1,36	32.279
feb-20	291	32.279	14.426	0,00	1,39	32.830
mar-20	292	32.830	14.539	0,00	1,38	32.753
abr-20	293	32.753	14.648	0,00	1,38	32.996
may-20	294	32.996	14.756	0,00	1,39	33.388
jun-20	295	33.388	14.847	0,00	1,48	34.904
jul-20	296	34.904	14.951	0,00	1,48	34.854
ago-20	297	34.854	15.068	0,00	1,41	33.882
sep-20	298	33.882	15.203	0,00	1,29	32.232
oct-20	299	32.232	15.320	0,00	1,29	32.538
nov-20	300	32.538	15.412	0,00	1,40	34.633



✓ Método de Descomposición según el Modelo Aditivo y Método de Descomposición según el Modelo Multiplicativo

• Alimentador A7

**Demanda (kVA)**

CLASSICAL DECOMPOSITION TEMPLATE					ADDITIVE FORECAST METHOD			MULTIPLICATIVE FORECAST METHOD				
Slope of Trend Line		(1)										
Intercept		1.059										
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value (Tt)	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Multiplicative Forecast Value (Ft)
nov-15	240	825	1.346	0,61	766	1.095	60	200	<b>966</b>	108	120	<b>916</b>
dic-15	241	640	1.485	0,43	764	1.724	(124)	37	<b>802</b>	84	104	<b>793</b>
ene-16	242	1.724	1.627	1,06	1.906	2.593	(182)	(84)	<b>1.822</b>	90	92	<b>1.746</b>
feb-16	243	2.593	1.768	1,47	1.905	2.592	688	(153)	<b>1.752</b>	136	82	<b>1.559</b>
mar-16	244	2.592	1.911	1,36	1.904	2.591	688	(143)	<b>1.761</b>	136	83	<b>1.580</b>
abr-16	245	2.591	2.053	1,26	1.903	2.590	688	(25)	<b>1.878</b>	136	96	<b>1.820</b>
may-16	246	2.590	2.207	1,17	1.901	2.589	688	32	<b>1.933</b>	136	102	<b>1.938</b>
jun-16	247	2.589	2.354	1,10	1.900	2.588	689	155	<b>2.055</b>	136	115	<b>2.185</b>
jul-16	248	2.588	2.516	1,03	1.899	2.587	689	127	<b>2.026</b>	136	112	<b>2.123</b>
ago-16	249	2.587	2.587	1,00	1.898	2.586	689	27	<b>1.924</b>	136	101	<b>1.921</b>
sep-16	250	2.586	2.587	1,00	1.896	2.585	690	1	<b>1.897</b>	136	98	<b>1.861</b>
oct-16	251	2.585	2.586	1,00	1.895	2.584	690	146	<b>2.041</b>	136	114	<b>2.157</b>
nov-16	252	2.584	2.585	1,00	1.894	2.583	690	200	<b>2.094</b>	136	120	<b>2.267</b>
dic-16	253	2.583	2.584	1,00	1.893	2.582	690	37	<b>1.930</b>	136	104	<b>1.964</b>
ene-17	254	2.582	2.583	1,00	1.892	2.581	691	(84)	<b>1.807</b>	137	92	<b>1.732</b>
feb-17	255	2.581	2.582	1,00	1.890	2.580	691	(153)	<b>1.737</b>	137	82	<b>1.547</b>
mar-17	256	2.580	2.581	1,00	1.889	2.580	691	(143)	<b>1.746</b>	137	83	<b>1.568</b>
abr-17	257	2.580	2.580	1,00	1.888	2.579	692	(25)	<b>1.863</b>	137	96	<b>1.806</b>
may-17	258	2.579	2.579	1,00	1.887	2.578	692	32	<b>1.918</b>	137	102	<b>1.923</b>
jun-17	259	2.578	2.578	1,00	1.885	2.577	692	155	<b>2.040</b>	137	115	<b>2.168</b>
jul-17	260	2.577	2.577	1,00	1.884	2.576	693	127	<b>2.012</b>	137	112	<b>2.107</b>
ago-17	261	2.576	2.630	0,98	1.883	2.575	693	27	<b>1.910</b>	137	101	<b>1.906</b>
sep-17	262	2.575	2.724	0,95	1.882	2.574	693	1	<b>1.883</b>	137	98	<b>1.847</b>
oct-17	263	2.574	2.819	0,91	1.881	2.573	693	146	<b>2.027</b>	137	114	<b>2.140</b>
nov-17	264	2.573	2.913	0,88	1.879	2.572	694	200	<b>2.079</b>	137	120	<b>2.249</b>
dic-17	265	2.572	3.007	0,86	1.878	3.219	694	37	<b>1.915</b>	137	104	<b>1.949</b>
ene-18	266	3.219	3.101	1,04	2.525	3.711	694	(84)	<b>2.441</b>	127	92	<b>2.312</b>
feb-18	267	3.711	3.195	1,16	2.524	3.710	1.187	(153)	<b>2.370</b>	147	82	<b>2.066</b>
mar-18	268	3.710	3.289	1,13	2.523	3.709	1.188	(143)	<b>2.379</b>	147	83	<b>2.093</b>
abr-18	269	3.709	3.383	1,10	2.521	3.708	1.188	(25)	<b>2.496</b>	147	96	<b>2.411</b>
may-18	270	3.708	3.478	1,07	2.520	3.707	1.188	32	<b>2.552</b>	147	102	<b>2.569</b>
jun-18	271	3.707	3.572	1,04	2.519	3.706	1.188	155	<b>2.674</b>	147	115	<b>2.896</b>

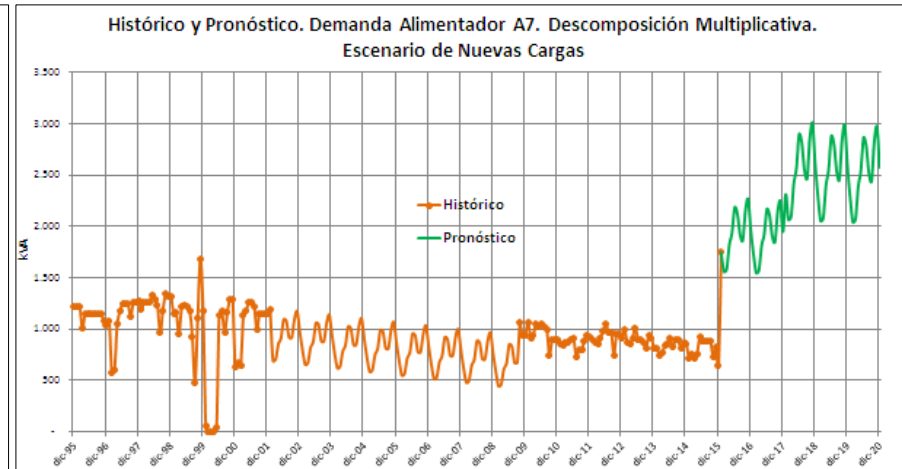
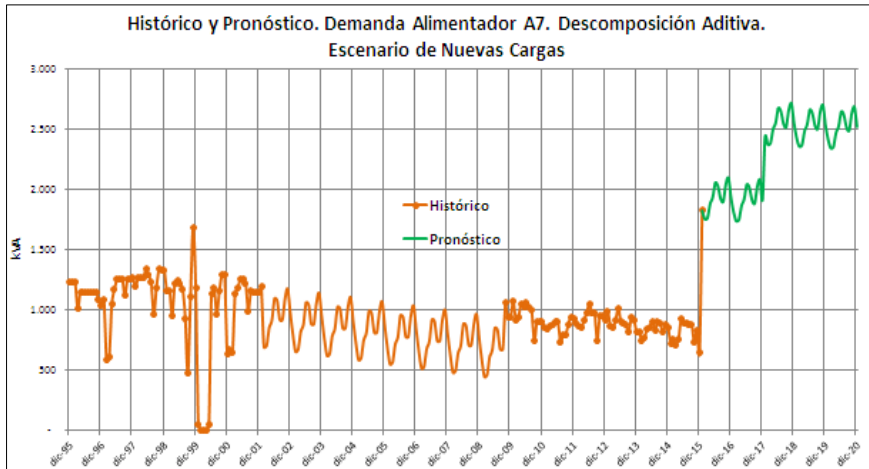
jul-18	272	3.706	3.666	1,01	2.518	3.705	1.189	127	<b>2.645</b>	147	112	<b>2.815</b>
ago-18	273	3.705	3.706	1,00	2.516	3.705	1.189	27	<b>2.543</b>	147	101	<b>2.548</b>
sep-18	274	3.705	3.705	1,00	2.515	3.704	1.189	1	<b>2.516</b>	147	98	<b>2.469</b>
oct-18	275	3.704	3.704	1,00	2.514	3.703	1.190	146	<b>2.660</b>	147	114	<b>2.861</b>
nov-18	276	3.703	3.703	1,00	2.513	3.702	1.190	200	<b>2.713</b>	147	120	<b>3.007</b>
dic-18	277	3.702	3.702	1,00	2.512	3.701	1.190	37	<b>2.549</b>	147	104	<b>2.606</b>
ene-19	278	3.701	3.701	1,00	2.510	3.700	1.191	(84)	<b>2.426</b>	147	92	<b>2.299</b>
feb-19	279	3.700	3.700	1,00	2.509	3.699	1.191	(153)	<b>2.356</b>	147	82	<b>2.054</b>
mar-19	280	3.699	3.699	1,00	2.508	3.698	1.191	(143)	<b>2.365</b>	147	83	<b>2.081</b>
abr-19	281	3.698	3.698	1,00	2.507	3.697	1.191	(25)	<b>2.482</b>	148	96	<b>2.397</b>
may-19	282	3.697	3.698	1,00	2.505	3.696	1.192	32	<b>2.537</b>	148	102	<b>2.554</b>
jun-19	283	3.696	3.697	1,00	2.504	3.695	1.192	155	<b>2.659</b>	148	115	<b>2.879</b>
jul-19	284	3.695	3.696	1,00	2.503	3.694	1.192	127	<b>2.630</b>	148	112	<b>2.799</b>
ago-19	285	3.694	3.695	1,00	2.502	3.693	1.193	27	<b>2.528</b>	148	101	<b>2.533</b>
sep-19	286	3.693	3.694	1,00	2.501	3.692	1.193	1	<b>2.501</b>	148	98	<b>2.454</b>
oct-19	287	3.692	3.693	1,00	2.499	3.692	1.193	146	<b>2.645</b>	148	114	<b>2.844</b>
nov-19	288	3.692	3.692	1,00	2.498	3.691	1.193	200	<b>2.698</b>	148	120	<b>2.990</b>
dic-19	289	3.691	3.691	1,00	2.497	3.690	1.194	37	<b>2.534</b>	148	104	<b>2.591</b>
ene-20	290	3.690	3.690	1,00	2.496	3.689	1.194	(84)	<b>2.412</b>	148	92	<b>2.285</b>
feb-20	291	3.689	3.689	1,00	2.494	3.688	1.194	(153)	<b>2.341</b>	148	82	<b>2.042</b>
mar-20	292	3.688	3.688	1,00	2.493	3.687	1.195	(143)	<b>2.350</b>	148	83	<b>2.069</b>
abr-20	293	3.687	3.687	1,00	2.492	3.686	1.195	(25)	<b>2.467</b>	148	96	<b>2.383</b>
may-20	294	3.686	3.686	1,00	2.491	3.685	1.195	32	<b>2.522</b>	148	102	<b>2.539</b>
jun-20	295	3.685	3.686	1,00	2.490	3.684	1.195	155	<b>2.644</b>	148	115	<b>2.862</b>
jul-20	296	3.684	3.685	1,00	2.488	3.683	1.196	127	<b>2.616</b>	148	112	<b>2.783</b>
ago-20	297	3.683	3.684	1,00	2.487	3.682	1.196	27	<b>2.514</b>	148	101	<b>2.518</b>
sep-20	298	3.682	3.684	1,00	2.486	3.681	1.196	1	<b>2.487</b>	148	98	<b>2.440</b>
oct-20	299	3.681	3.683	1,00	2.485	3.680	1.197	146	<b>2.631</b>	148	114	<b>2.828</b>
nov-20	300	3.680	3.683	1,00	2.483	3.679	1.197	200	<b>2.684</b>	148	120	<b>2.972</b>
dic-20	301	3.679	3.682	1,00	2.482	3.679	1.197	37	<b>2.520</b>	148	104	<b>2.575</b>

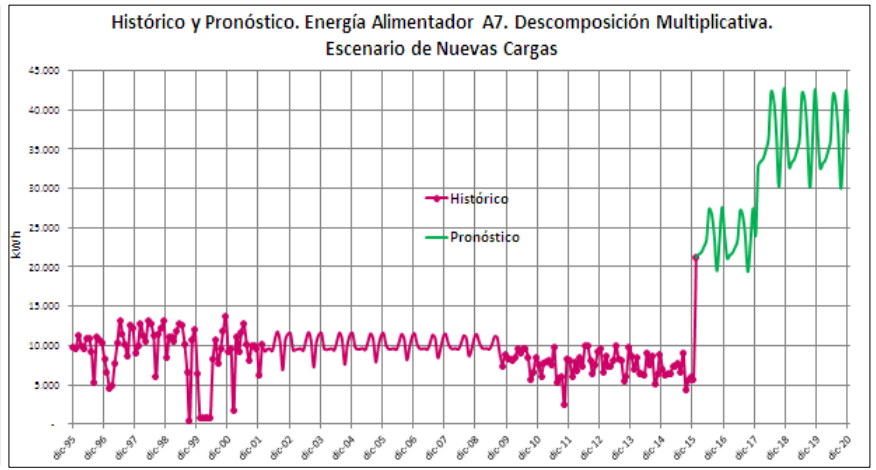
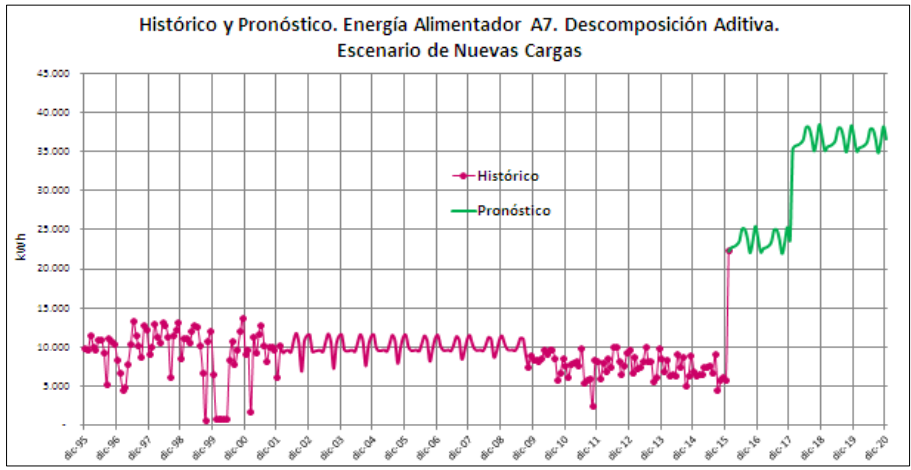
### Energía (kWh)

CLASSICAL DECOMPOSITION TEMPLATE					ADDITIVE FORECAST METHOD			MULTIPLICATIVE FORECAST METHOD				
Slope of Trend Line		(10)										
Intercept		10.286										
Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value
nov-15	240	6.058	8.986	0,67	7.826	11.335	(1.768)	1.751	<b>9.576</b>	77	116	<b>9.115</b>
dic-15	241	5.666	9.936	0,57	7.816	5.529	(2.150)	145	<b>7.961</b>	72	102	<b>7.967</b>
ene-16	242	5.529	11.155	0,50	23.805	16.839	(18.277)	(1.534)	<b>22.271</b>	23	89	<b>21.211</b>
feb-16	243	16.839	13.182	1,28	23.795	16.931	(6.956)	(1.083)	<b>22.712</b>	71	91	<b>21.624</b>
mar-16	244	16.931	14.907	1,14	23.785	15.990	(6.854)	(941)	<b>22.844</b>	71	92	<b>21.885</b>
abr-16	245	15.990	16.241	0,98	23.775	18.776	(7.784)	(703)	<b>23.072</b>	67	95	<b>22.597</b>
may-16	246	18.776	17.406	1,08	23.764	22.286	(4.988)	(227)	<b>23.538</b>	79	99	<b>23.497</b>

jun-16	247	22.286	19.512	1,14	23.754	30.995	(1.468)	1.330	<b>25.084</b>	94	115	<b>27.328</b>
jul-16	248	30.995	21.898	1,42	23.744	29.689	7.251	1.367	<b>25.111</b>	131	113	<b>26.713</b>
ago-16	249	29.689	22.834	1,30	23.734	20.470	5.955	192	<b>23.926</b>	125	101	<b>23.978</b>
sep-16	250	20.470	22.826	0,90	23.723	19.642	(3.254)	(1.658)	<b>22.065</b>	86	82	<b>19.506</b>
oct-16	251	19.642	22.819	0,86	23.713	31.327	(4.072)	(202)	<b>23.511</b>	83	98	<b>23.203</b>
nov-16	252	31.327	22.812	1,37	23.703	34.300	7.624	1.751	<b>25.453</b>	132	116	<b>27.608</b>
dic-16	253	34.300	22.804	1,50	23.693	16.760	10.607	145	<b>23.838</b>	145	102	<b>24.153</b>
ene-17	254	16.760	22.794	0,74	23.682	16.752	(6.923)	(1.534)	<b>22.148</b>	71	89	<b>21.101</b>
feb-17	255	16.752	22.781	0,74	23.672	16.843	(6.920)	(1.083)	<b>22.589</b>	71	91	<b>21.512</b>
mar-17	256	16.843	22.768	0,74	23.662	15.908	(6.819)	(941)	<b>22.721</b>	71	92	<b>21.772</b>
abr-17	257	15.908	22.759	0,70	23.652	18.679	(7.744)	(703)	<b>22.949</b>	67	95	<b>22.480</b>
may-17	258	18.679	22.751	0,82	23.641	22.171	(4.962)	(227)	<b>23.415</b>	79	99	<b>23.376</b>
jun-17	259	22.171	22.737	0,98	23.631	30.835	(1.460)	1.330	<b>24.961</b>	94	115	<b>27.186</b>
jul-17	260	30.835	22.723	1,36	23.621	29.535	7.214	1.367	<b>24.988</b>	131	113	<b>26.575</b>
ago-17	261	29.535	22.715	1,30	23.611	20.364	5.924	192	<b>23.803</b>	125	101	<b>23.854</b>
sep-17	262	20.364	23.489	0,87	23.600	19.540	(3.237)	(1.658)	<b>21.942</b>	86	82	<b>19.405</b>
oct-17	263	19.540	24.254	0,81	23.590	31.164	(4.050)	(202)	<b>23.388</b>	83	98	<b>23.083</b>
nov-17	264	31.164	25.096	1,24	23.580	34.122	7.584	1.751	<b>25.330</b>	132	116	<b>27.465</b>
dic-17	265	34.122	25.707	1,33	23.570	16.672	10.552	145	<b>23.715</b>	145	102	<b>24.027</b>
ene-18	266	16.672	26.026	0,64	36.799	26.031	(20.127)	(1.534)	<b>35.265</b>	45	89	<b>32.789</b>
feb-18	267	26.031	25.623	1,02	36.789	26.024	(10.758)	(1.083)	<b>35.706</b>	71	91	<b>33.432</b>
mar-18	268	26.024	25.327	1,03	36.779	26.016	(10.755)	(941)	<b>35.838</b>	71	92	<b>33.841</b>
abr-18	269	26.016	25.795	1,01	36.769	26.009	(10.752)	(703)	<b>36.066</b>	71	95	<b>34.947</b>
may-18	270	26.009	26.331	0,99	36.758	26.002	(10.749)	(227)	<b>36.532</b>	71	99	<b>36.345</b>
jun-18	271	26.002	25.898	1,00	36.748	25.995	(10.746)	1.330	<b>38.078</b>	71	115	<b>42.277</b>
jul-18	272	25.995	25.218	1,03	36.738	25.987	(10.743)	1.367	<b>38.105</b>	71	113	<b>41.332</b>
ago-18	273	25.987	25.991	1,00	36.728	25.980	(10.740)	192	<b>36.920</b>	71	101	<b>37.106</b>
sep-18	274	25.980	25.984	1,00	36.717	25.973	(10.737)	(1.658)	<b>35.059</b>	71	82	<b>30.190</b>
oct-18	275	25.973	25.976	1,00	36.707	25.966	(10.734)	(202)	<b>36.505</b>	71	98	<b>35.918</b>
nov-18	276	25.966	25.969	1,00	36.697	25.958	(10.731)	1.751	<b>38.447</b>	71	116	<b>42.743</b>
dic-18	277	25.958	25.962	1,00	36.687	25.951	(10.728)	145	<b>36.832</b>	71	102	<b>37.399</b>
ene-19	278	25.951	25.955	1,00	36.676	25.944	(10.725)	(1.534)	<b>35.142</b>	71	89	<b>32.679</b>
feb-19	279	25.944	25.947	1,00	36.666	25.937	(10.722)	(1.083)	<b>35.583</b>	71	91	<b>33.320</b>
mar-19	280	25.937	25.940	1,00	36.656	25.929	(10.719)	(941)	<b>35.715</b>	71	92	<b>33.728</b>
abr-19	281	25.929	25.933	1,00	36.646	25.922	(10.716)	(703)	<b>35.943</b>	71	95	<b>34.830</b>
may-19	282	25.922	25.926	1,00	36.635	25.915	(10.713)	(227)	<b>36.409</b>	71	99	<b>36.224</b>
jun-19	283	25.915	25.918	1,00	36.625	25.908	(10.710)	1.330	<b>37.955</b>	71	115	<b>42.135</b>
jul-19	284	25.908	25.911	1,00	36.615	25.900	(10.707)	1.367	<b>37.982</b>	71	113	<b>41.194</b>
ago-19	285	25.900	25.904	1,00	36.605	25.893	(10.704)	192	<b>36.797</b>	71	101	<b>36.982</b>
sep-19	286	25.893	25.897	1,00	36.594	25.886	(10.701)	(1.658)	<b>34.936</b>	71	82	<b>30.089</b>
oct-19	287	25.886	25.889	1,00	36.584	25.879	(10.698)	(202)	<b>36.382</b>	71	98	<b>35.798</b>
nov-19	288	25.879	25.882	1,00	36.574	25.871	(10.695)	1.751	<b>38.324</b>	71	116	<b>42.600</b>
dic-19	289	25.871	25.875	1,00	36.564	25.864	(10.692)	145	<b>36.709</b>	71	102	<b>37.274</b>
ene-20	290	25.864	25.868	1,00	36.553	25.857	(10.689)	(1.534)	<b>35.019</b>	71	89	<b>32.569</b>
feb-20	291	25.857	25.860	1,00	36.543	25.850	(10.686)	(1.083)	<b>35.460</b>	71	91	<b>33.208</b>
mar-20	292	25.850	25.853	1,00	36.533	25.842	(10.683)	(941)	<b>35.592</b>	71	92	<b>33.615</b>
abr-20	293	25.842	25.846	1,00	36.523	25.835	(10.680)	(703)	<b>35.820</b>	71	95	<b>34.713</b>
may-20	294	25.835	25.839	1,00	36.512	25.828	(10.677)	(227)	<b>36.286</b>	71	99	<b>36.102</b>
jun-20	295	25.828	25.831	1,00	36.502	25.821	(10.674)	1.330	<b>37.832</b>	71	115	<b>41.993</b>

jul-20	296	25.821	25.824	1,00	36.492	25.813	(10.671)	1.367	<b>37.859</b>	71	113	<b>41.055</b>
ago-20	297	25.813	25.821	1,00	36.481	25.806	(10.668)	192	<b>36.674</b>	71	101	<b>36.858</b>
sep-20	298	25.806	25.817	1,00	36.471	25.799	(10.665)	(1.658)	<b>34.813</b>	71	82	<b>29.988</b>
oct-20	299	25.799	25.813	1,00	36.461	25.792	(10.662)	(202)	<b>36.259</b>	71	98	<b>35.677</b>
nov-20	300	25.792	25.810	1,00	36.451	25.784	(10.659)	1.751	<b>38.201</b>	71	116	<b>42.456</b>
dic-20	301	25.784	25.806	1,00	36.440	25.777	(10.656)	145	<b>36.586</b>	71	102	<b>37.148</b>





## [ANEXO N°8]

### Pronóstico a corto y mediano plazo bajo escenario de crecimiento vegetativo, con base al histórico 2009-2015

- ✓ Método de Suavizado Exponencial de Holt-Winters
- Alimentador A5-C1

#### Demanda (kVA)

Alpha	Beta	Gamma
0,30	0,70	-

Date data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	74	854	969	0,00	0,92	1.013
dic-15	75	914	960	0,00	0,96	945
ene-16	76	<b>945</b>	970	0,00	0,97	913
feb-16	77	<b>913</b>	971	0,00	0,94	909
mar-16	78	<b>909</b>	974	0,00	0,93	901
abr-16	79	<b>901</b>	983	0,00	0,91	874
may-16	80	<b>874</b>	948	0,00	0,95	989
jun-16	81	<b>989</b>	959	0,00	1,02	953
jul-16	82	<b>953</b>	959	0,00	0,99	952
ago-16	83	<b>952</b>	964	0,00	0,98	936
sep-16	84	<b>936</b>	1.006	0,00	0,91	819
oct-16	85	<b>819</b>	1.045	0,00	0,76	724
nov-16	86	<b>724</b>	969	0,00	0,80	957
dic-16	87	<b>957</b>	978	0,00	0,97	929
ene-17	88	<b>929</b>	972	0,00	0,96	946
feb-17	89	<b>946</b>	983	0,00	0,96	913
mar-17	90	<b>913</b>	982	0,00	0,93	916
abr-17	91	<b>916</b>	989	0,00	0,92	895
may-17	92	<b>895</b>	976	0,00	0,93	937
jun-17	93	<b>937</b>	958	0,00	0,99	999
jul-17	94	<b>999</b>	972	0,00	1,02	951
ago-17	95	<b>951</b>	970	0,00	0,98	956
sep-17	96	<b>956</b>	996	0,00	0,94	879
oct-17	97	<b>879</b>	1.042	0,00	0,82	761
nov-17	98	<b>761</b>	1.016	0,00	0,76	831
dic-17	99	<b>831</b>	967	0,00	0,89	989

#### Energía (kWh)

Alpha	Beta	Gamma
0,20	0,10	-

Date Period (Mmm-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	74	8213	8.440	0,00	1,16	10.388
dic-15	75	8413	8.343	0,00	1,05	8.924
ene-16	76	<b>8.924</b>	8.650	0,00	0,92	7.539
feb-16	77	<b>7.539</b>	8.590	0,00	0,90	7.808
mar-16	78	<b>7.808</b>	8.636	0,00	0,89	7.608
abr-16	79	<b>7.608</b>	8.324	0,00	1,06	9.280
may-16	80	<b>9.280</b>	8.512	0,00	1,01	8.342
jun-16	81	<b>8.342</b>	8.290	0,00	1,11	9.588
jul-16	82	<b>9.588</b>	8.529	0,00	1,02	8.381
ago-16	83	<b>8.381</b>	8.479	0,00	1,01	8.637
sep-16	84	<b>8.637</b>	9.131	0,00	0,76	6.236
oct-16	85	<b>6.236</b>	8.679	0,00	0,89	8.287
nov-16	86	<b>8.287</b>	8.374	0,00	1,14	10.056
dic-16	87	<b>10.056</b>	8.610	0,00	1,06	8.813



ene-17	88	<b>8.813</b>	8.812	0,00	0,92	7.890
feb-17	89	<b>7.890</b>	8.802	0,00	0,90	7.932
mar-17	90	<b>7.932</b>	8.829	0,00	0,89	7.812
abr-17	91	<b>7.812</b>	8.540	0,00	1,04	9.346
may-17	92	<b>9.346</b>	8.681	0,00	1,02	8.633
jun-17	93	<b>8.633</b>	8.494	0,00	1,10	9.674
jul-17	94	<b>9.674</b>	8.688	0,00	1,03	8.683
ago-17	95	<b>8.683</b>	8.669	0,00	1,01	8.777
sep-17	96	<b>8.777</b>	9.255	0,00	0,78	6.559
oct-17	97	<b>6.559</b>	8.881	0,00	0,87	8.225
nov-17	98	<b>8.225</b>	8.545	0,00	1,12	10.139
dic-17	99	<b>10.139</b>	8.742	0,00	1,07	9.092

- Alimentador A7

### Demanda (kVA)

Alpha	Beta	Gamma
0,20	0,80	-

Date Data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	74	629	785	0,00	0,84	804
dic-15	75	444	741	0,00	0,64	618
ene-16	76	<b>618</b>	768	0,00	0,78	522
feb-16	77	<b>522</b>	754	0,00	0,70	573
mar-16	78	<b>573</b>	760	0,00	0,75	554
abr-16	79	<b>554</b>	741	0,00	0,76	630
may-16	80	<b>630</b>	699	0,00	0,96	883
jun-16	81	<b>883</b>	716	0,00	1,21	784
jul-16	82	<b>784</b>	720	0,00	1,09	765
ago-16	83	<b>765</b>	722	0,00	1,06	757
sep-16	84	<b>757</b>	736	0,00	1,01	688
oct-16	85	<b>688</b>	783	0,00	0,85	522
nov-16	86	<b>522</b>	751	0,00	0,72	655
dic-16	87	<b>655</b>	806	0,00	0,78	478
ene-17	88	<b>478</b>	767	0,00	0,66	633
feb-17	89	<b>633</b>	794	0,00	0,78	539
mar-17	90	<b>539</b>	779	0,00	0,70	596
abr-17	91	<b>596</b>	779	0,00	0,76	595
may-17	92	<b>595</b>	747	0,00	0,83	747
jun-17	93	<b>747</b>	721	0,00	1,07	904
jul-17	94	<b>904</b>	744	0,00	1,19	783
ago-17	95	<b>783</b>	743	0,00	1,05	787
sep-17	96	<b>787</b>	750	0,00	1,04	753
oct-17	97	<b>753</b>	778	0,00	0,94	634
nov-17	98	<b>634</b>	797	0,00	0,78	563
dic-17	99	<b>563</b>	783	0,00	0,73	620

### Energía (kWh)

Alpha	Beta	Gamma
0,70	0,10	-

Date Period (Mmm-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	240	4.960	4.922	0,00	1,08	6.258
dic-15	241	4.568	4.680	0,00	1,00	4.914
ene-16	242	4.914	5.021	0,00	0,95	4.450
feb-16	243	4.450	4.666	0,00	0,98	4.950
mar-16	244	4.950	4.867	0,00	1,00	4.663
abr-16	245	4.663	4.322	0,00	1,13	5.551
may-16	246	5.551	4.862	0,00	1,10	4.710
jun-16	247	4.710	4.288	0,00	1,16	5.665
jul-16	248	5.665	4.894	0,00	1,11	4.714
ago-16	249	4.714	4.674	0,00	1,03	5.037
sep-16	250	5.037	7.677	0,00	0,57	2.626
oct-16	251	2.626	4.542	0,00	0,80	6.305
nov-16	252	6.305	5.453	0,00	1,09	4.900
dic-16	253	4.900	5.080	0,00	0,99	5.432

ene-17	254	5.432	5.511	0,00	0,96	4.844
feb-17	255	4.844	5.104	0,00	0,98	5.415
mar-17	256	5.415	5.317	0,00	1,00	5.110
abr-17	257	5.110	4.749	0,00	1,13	6.032
may-17	258	6.032	5.280	0,00	1,10	5.200
jun-17	259	5.200	4.726	0,00	1,15	6.117
jul-17	260	6.117	5.293	0,00	1,11	5.223
ago-17	261	5.223	5.147	0,00	1,03	5.436
sep-17	262	5.436	8.205	0,00	0,58	2.941
oct-17	263	2.941	5.044	0,00	0,78	6.540
nov-17	264	6.540	5.726	0,00	1,09	5.482
dic-17	265	5.482	5.582	0,00	0,99	5.685

• Alimentador A68

**Demanda (kVA)**

Alpha	Beta	Gamma
0,20	0,70	-

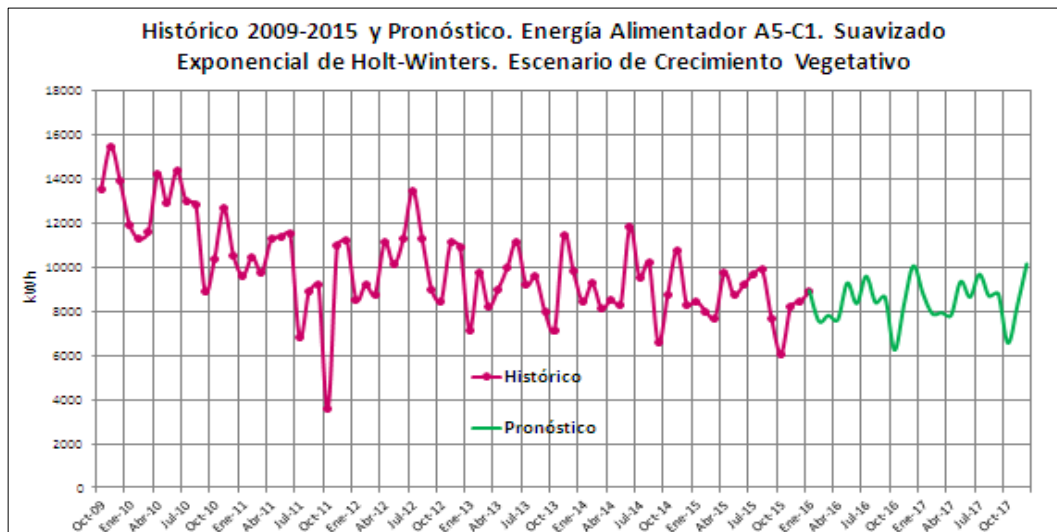
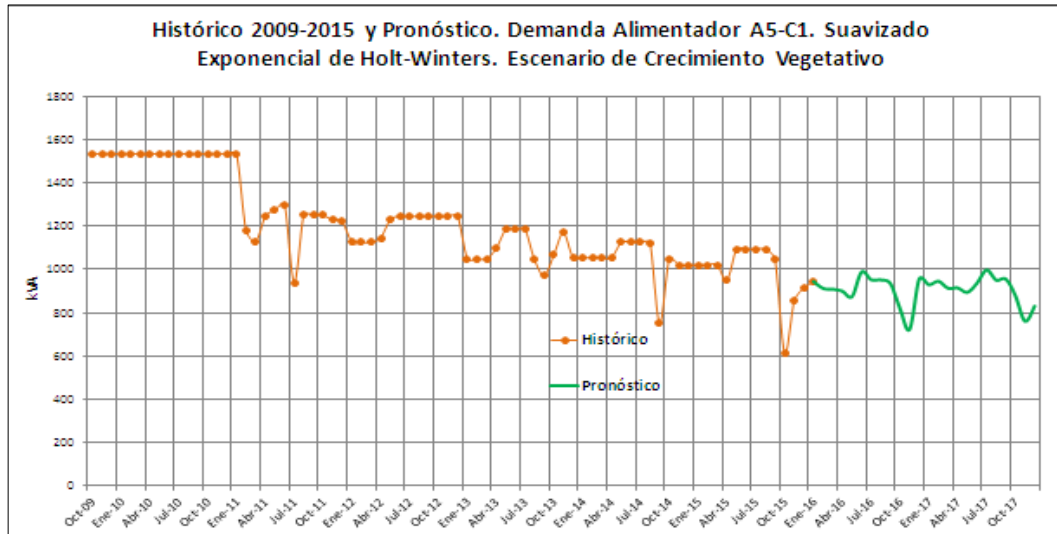
Date Data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (T <sub>t</sub> )	Smoothed Seasonal (I <sub>t</sub> )	Forecast (Ft)
nov-15	74	4019	5.507	0,00	0,80	5.548
dic-15	75	4262	5.294	0,00	0,85	5.281
ene-16	76	<b>5.281</b>	5.364	0,00	0,97	4.954
feb-16	77	<b>4.954</b>	5.493	0,00	0,88	4.423
mar-16	78	<b>4.423</b>	5.381	0,00	0,84	4.926
abr-16	79	<b>4.926</b>	5.461	0,00	0,89	4.586
may-16	80	<b>4.586</b>	5.282	0,00	0,91	5.482
jun-16	81	<b>5.482</b>	5.287	0,00	1,04	5.458
jul-16	82	<b>5.458</b>	5.311	0,00	1,02	5.338
ago-16	83	<b>5.338</b>	5.365	0,00	0,98	5.076
sep-16	84	<b>5.076</b>	5.483	0,00	0,90	4.576
oct-16	85	<b>4.576</b>	5.499	0,00	0,83	4.509
nov-16	86	<b>4.509</b>	5.531	0,00	0,81	4.380
dic-16	87	<b>4.380</b>	5.454	0,00	0,82	4.708
ene-17	88	<b>4.708</b>	5.334	0,00	0,91	4.887
feb-17	89	<b>4.887</b>	5.380	0,00	0,90	4.356
mar-17	90	<b>4.356</b>	5.336	0,00	0,82	4.859
abr-17	91	<b>4.859</b>	5.364	0,00	0,90	4.519
may-17	92	<b>4.519</b>	5.285	0,00	0,87	5.415
jun-17	93	<b>5.415</b>	5.274	0,00	1,03	5.391
jul-17	94	<b>5.391</b>	5.274	0,00	1,02	5.271
ago-17	95	<b>5.271</b>	5.291	0,00	0,99	5.151
sep-17	96	<b>5.151</b>	5.373	0,00	0,94	4.889
oct-17	97	<b>4.889</b>	5.477	0,00	0,87	4.390
nov-17	98	<b>4.390</b>	5.466	0,00	0,81	4.323
dic-17	99	<b>4.323</b>	5.431	0,00	0,80	

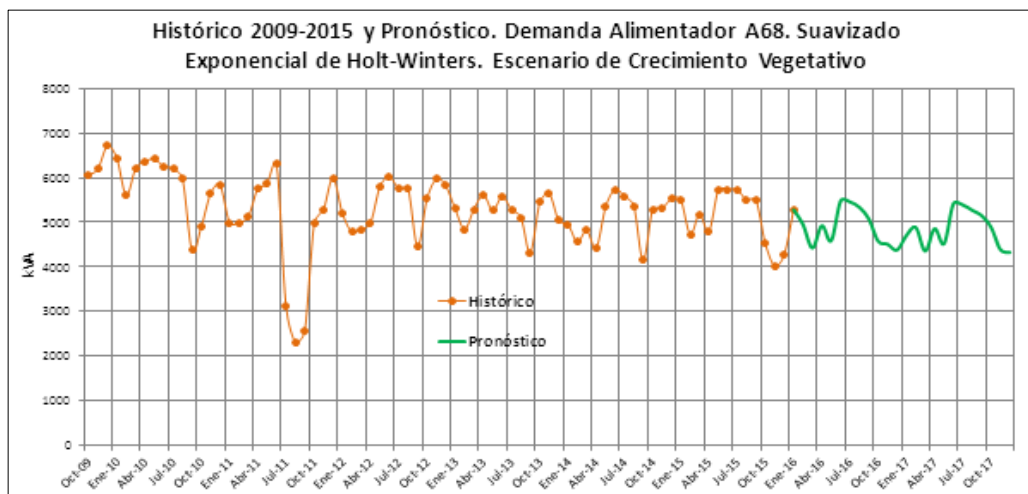
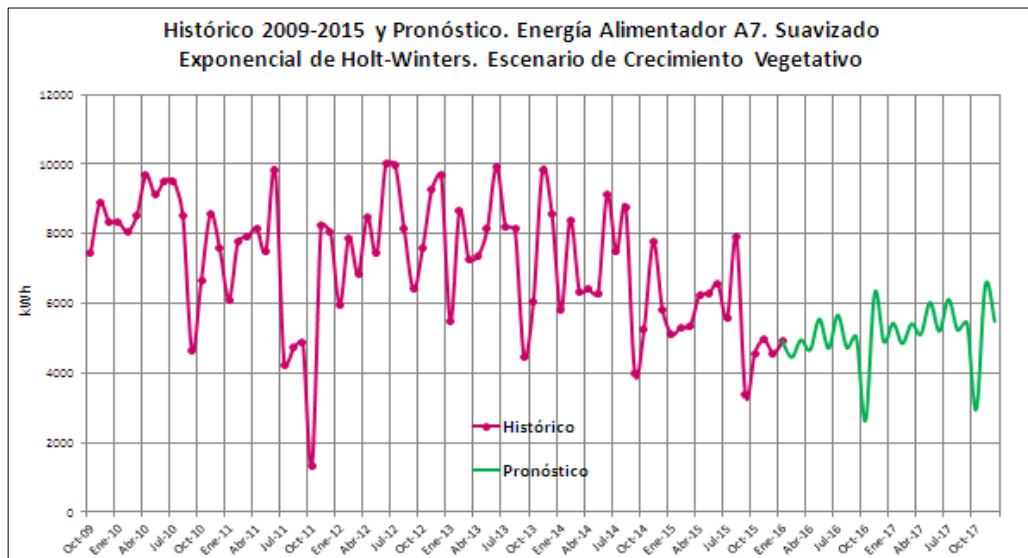
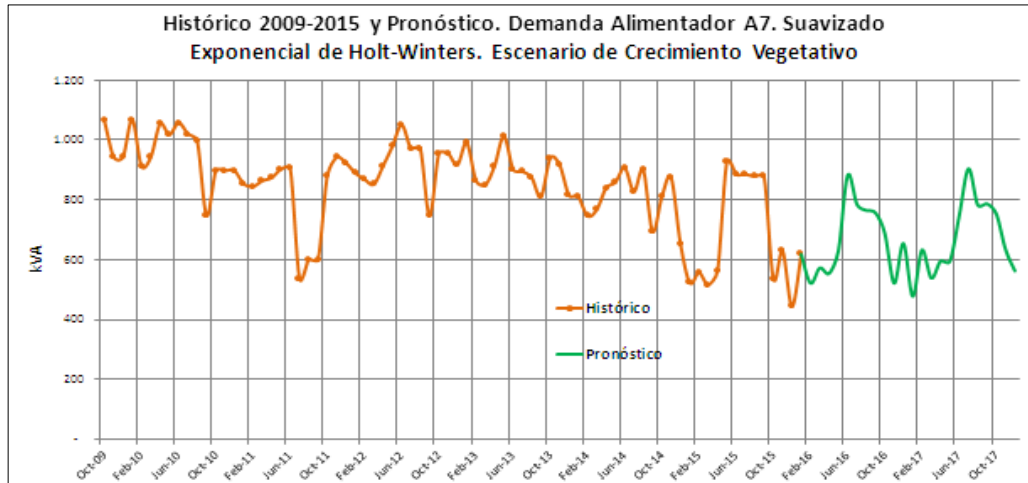
**Energía (kWh)**

Alpha	Beta	Gamma
0,80	0,20	-

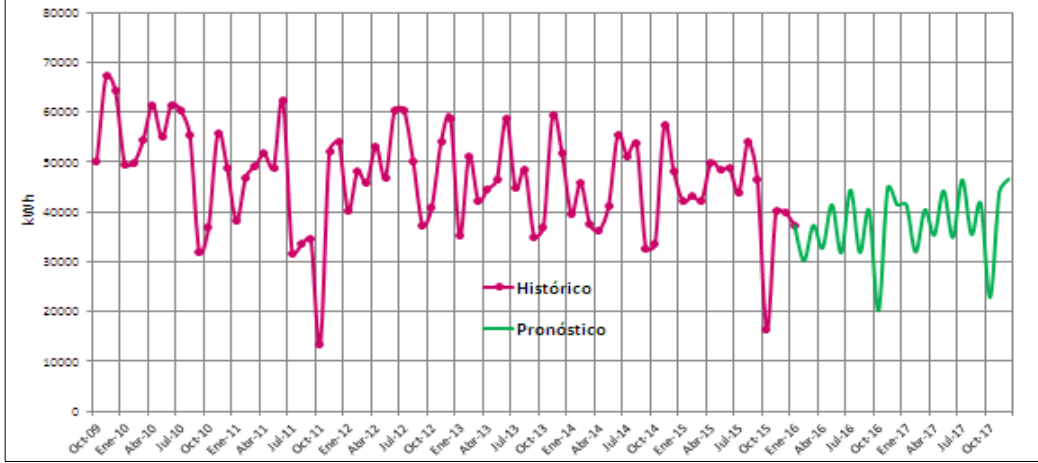
Date data (mmm-aa)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (T <sub>t</sub> )	Smoothed Seasonal (I <sub>t</sub> )	Forecast (Ft)
nov-15	74	40107	31.930	0,00	1,25	37.948
dic-15	75	39845	33.718	0,00	1,17	37.239
ene-16	76	37.239	40.043	0,00	0,90	30.165
feb-16	77	30.165	33.931	0,00	0,92	37.278
mar-16	78	37.278	37.696	0,00	0,97	32.737
abr-16	79	32.737	31.370	0,00	1,09	41.428
may-16	80	41.428	39.019	0,00	1,02	31.750
jun-16	81	31.750	30.139	0,00	1,12	44.373
jul-16	82	44.373	39.644	0,00	1,07	31.827
ago-16	83	31.827	32.981	0,00	1,01	40.291
sep-16	84	40.291	59.355	0,00	0,62	20.150
oct-16	85	20.150	33.251	0,00	0,72	44.752
nov-16	86	44.752	35.400	0,00	1,25	41.406
dic-16	87	41.406	35.408	0,00	1,17	41.396

ene-17	88	41.396	43.808	0,00	0,91	31.927
feb-17	89	31.927	36.447	0,00	0,91	40.416
mar-17	90	40.416	40.635	0,00	0,97	35.340
abr-17	91	35.340	34.115	0,00	1,08	44.207
may-17	92	44.207	41.426	0,00	1,03	34.866
jun-17	93	34.866	33.180	0,00	1,11	46.416
jul-17	94	46.416	41.383	0,00	1,08	35.458
ago-17	95	35.458	36.472	0,00	1,00	41.634
sep-17	96	41.634	60.626	0,00	0,64	22.778
oct-17	97	22.778	37.281	0,00	0,70	43.917
nov-17	98	43.917	35.584	0,00	1,25	46.566
dic-17	99	46.566	38.973	0,00	1,17	41.611





Histórico 2009-2015 y Pronóstico. Energía Alimentador A68. Suavizado Exponencial de Holt-Winters. Escenario de Crecimiento Vegetativo



✓ Método de Descomposición según el Modelo Aditivo y Método de Descomposición según el Modelo Multiplicativo

• Alimentador A5-C1

**Demanda (kVA)**

<i>CLASSICAL DECOMPOSITION TEMPLATE</i>							<i>ADDITIVE FORECAST METHOD</i>			<i>MULTIPLICATIVE FORECAST METHOD</i>			
Slope of Trend Line		(4)											
Intercept		1,594											
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value (Ft)	
nov-15	74	1.169	1.281	0,91	1.303	1.311	(134)	7	<b>1.310</b>	90	100	<b>1.308</b>	
dic-15	75	1.229	1.268	0,97	1.299	1.302	(70)	2	<b>1.301</b>	95	100	<b>1.300</b>	
ene-16	76	1.303	1.262	1,03	1.295	1.258	8	(31)	<b>1.264</b>	101	98	<b>1.268</b>	
feb-16	77	1.258	1.257	1,00	1.291	1.250	(32)	(33)	<b>1.258</b>	97	98	<b>1.262</b>	
mar-16	78	1.250	1.247	1,00	1.287	1.239	(37)	(38)	<b>1.249</b>	97	97	<b>1.254</b>	
abr-16	79	1.239	1.243	1,00	1.283	1.255	(44)	(15)	<b>1.268</b>	97	99	<b>1.268</b>	
may-16	80	1.255	1.267	0,99	1.279	1.336	(24)	58	<b>1.337</b>	98	104	<b>1.332</b>	
jun-16	81	1.336	1.271	1,05	1.275	1.345	61	69	<b>1.344</b>	105	105	<b>1.337</b>	
jul-16	82	1.345	1.273	1,06	1.271	1.286	74	13	<b>1.284</b>	106	101	<b>1.286</b>	
ago-16	83	1.286	1.269	1,01	1.267	1.311	19	45	<b>1.312</b>	101	103	<b>1.308</b>	
sep-16	84	1.311	1.266	1,04	1.263	1.219	48	(33)	<b>1.230</b>	104	97	<b>1.231</b>	
oct-16	85	1.219	1.262	0,97	1.259	1.217	(40)	(39)	<b>1.221</b>	97	97	<b>1.221</b>	
nov-16	86	1.217	1.258	0,97	1.255	1.263	(39)	7	<b>1.262</b>	97	100	<b>1.260</b>	
dic-16	87	1.263	1.254	1,01	1.251	1.255	12	2	<b>1.253</b>	101	100	<b>1.252</b>	
ene-17	88	1.255	1.250	1,00	1.247	1.212	7	(31)	<b>1.217</b>	101	98	<b>1.222</b>	
feb-17	89	1.212	1.246	0,97	1.243	1.204	(31)	(33)	<b>1.210</b>	97	98	<b>1.216</b>	
mar-17	90	1.204	1.242	0,97	1.240	1.193	(36)	(38)	<b>1.202</b>	97	97	<b>1.208</b>	
abr-17	91	1.193	1.238	0,96	1.236	1.209	(42)	(15)	<b>1.220</b>	97	99	<b>1.222</b>	
may-17	92	1.209	1.234	0,98	1.232	1.287	(23)	58	<b>1.290</b>	98	104	<b>1.283</b>	
jun-17	93	1.287	1.230	1,05	1.228	1.295	59	69	<b>1.296</b>	105	105	<b>1.287</b>	
jul-17	94	1.295	1.226	1,06	1.224	1.238	71	13	<b>1.237</b>	106	101	<b>1.238</b>	
ago-17	95	1.238	1.224	1,01	1.220	1.262	18	45	<b>1.265</b>	101	103	<b>1.259</b>	
sep-17	96	1.262	1.225	1,03	1.216	1.173	47	(33)	<b>1.182</b>	104	97	<b>1.185</b>	
oct-17	97	1.173	1.227	0,96	1.212	1.171	(39)	(39)	<b>1.173</b>	97	97	<b>1.175</b>	
nov-17	98	1.171	1.231	0,95	1.208	1.216	(37)	7	<b>1.215</b>	97	100	<b>1.213</b>	
dic-17	99	1.216	1.235	0,98	1.204	1.207	12	2	<b>1.206</b>	101	100	<b>1.205</b>	

## Energía (kWh)

### CLASSICAL DECOMPOSITION TEMPLATE

### ADDITIVE FORECAST METHOD

### MULTIPLICATIVE FORECAST METHOD

Slope of Trend Line		(56)										
Intercept		12.072										
Date	Time	kWh	Centered	Trend		Trend & Seasonal	Detrend	Detrend	Additive	Detrend	Detrend	Multiplicative
Period	Period	Actual	Moving	Adjusted	Adjusted	Adjusted	Adjusted	Seasonal	Forecast	Adjusted	Seasonal	Forecast
(Mmm-AA)	(t)	(At)	(CMA-5)	Seasonal	Forecast	Forecast	Forecast	Indices	Value	Value	Factors	Value
nov-15	74	8.213	8.108	1,01	7.918	9.050	295			1.572		104
dic-15	75	8.413	8.045	1,05	7.862	8.254	551			550		107
ene-16	76	8.255	7.931	1,04	7.806	6.871	449		(1.157)	6.649		106
feb-16	77	6.871	7.866	0,87	7.750	7.566	(878)		(450)	7.299		89
mar-16	78	7.566	7.694	0,98	7.694	6.876	(128)		(1.037)	6.657		96
abr-16	79	6.876	7.721	0,89	7.637	7.975	(762)		645	8.282		98
may-16	80	7.975	7.751	1,03	7.581	7.805	393		289	7.870		106
jun-16	81	7.805	7.532	1,04	7.525	8.865	280		1.673	9.198		103
jul-16	82	8.865	7.521	1,18	7.469	7.795	1.396		439	7.908		104
ago-16	83	7.795	7.462	1,04	7.413	7.955	382		655	8.068		105
sep-16	84	7.955	7.413	1,07	7.357	6.423	598		(1.519)	5.838		108
oct-16	85	6.423	7.358	0,87	7.301	5.589	(878)		(1.725)	5.575		85
nov-16	86	5.589	7.308	0,76	7.244	8.280	(1.656)		1.572	8.816		82
dic-16	87	8.280	7.249	1,14	7.188	7.547	1.092		550	7.738		77
ene-17	88	7.547	7.191	1,05	7.132	6.278	415		(1.157)	5.975		105
feb-17	89	6.278	7.125	0,88	7.076	6.908	(798)		(450)	6.625		106
mar-17	90	6.908	7.067	0,98	7.020	6.274	(112)		(1.037)	5.983		89
abr-17	91	6.274	7.006	0,90	6.964	7.271	(690)		645	7.608		96
may-17	92	7.271	6.957	1,05	6.908	7.111	364		289	7.196		90
jun-17	93	7.111	6.914	1,03	6.851	8.071	260		1.673	8.524		106
jul-17	94	8.071	6.850	1,18	6.795	7.092	1.276		439	7.234		103
ago-17	95	7.092	6.787	1,04	6.739	7.232	353		655	7.394		104
sep-17	96	7.232	6.838	1,06	6.683	5.835	549		(1.519)	5.164		105
oct-17	97	5.835	6.830	0,85	6.627	5.073	(792)		(1.725)	4.902		108
nov-17	98	5.073	6.899	0,74	6.571	7.510	(1.498)		1.572	8.143		88
dic-17	99	7.510	6.846	1,10	6.515	6.839	996		550	7.065		77

- Alimentador A7

**Demanda (kVA)**

**CLASSICAL DECOMPOSITION TEMPLATE**

**ADDITIVE FORECAST METHOD**

**MULTIPLICATIVE FORECAST METHOD**

Slope of Trend Line		(2)										
Intercept		966										
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value (Tt)	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Multiplicative Forecast Value (Ft)
nov-15	74	825	805	1,03	807	841	18	23	831	102	103	830
dic-15	75	640	793	0,81	805	782	(165)	(27)	779	80	97	779
ene-16	76	734	791	0,93	803	781	(69)	(4)	799	91	99	797
feb-16	77	781	787	0,99	801	748	(20)	(59)	742	98	93	747
mar-16	78	748	780	0,96	799	742	(51)	(57)	742	94	93	746
abr-16	79	742	774	0,96	797	785	(55)	6	803	93	101	801
may-16	80	785	776	1,01	795	855	(10)	66	860	99	108	854
jun-16	81	855	773	1,11	792	849	63	69	862	108	108	855
jul-16	82	849	787	1,08	790	789	58	9	799	107	101	799
ago-16	83	789	789	1,00	788	809	1	25	813	100	103	812
sep-16	84	809	787	1,03	786	757	23	(64)	722	103	93	733
oct-16	85	757	785	0,96	784	782	(27)	11	795	97	101	792
nov-16	86	782	783	1,00	782	814	0	23	805	100	103	803
dic-16	87	814	781	1,04	780	757	34	(27)	753	104	97	754
ene-17	88	757	779	0,97	777	756	(20)	(4)	773	97	99	772
feb-17	89	756	776	0,97	775	724	(19)	(59)	716	98	93	723
mar-17	90	724	774	0,94	773	718	(49)	(57)	716	94	93	722
abr-17	91	718	772	0,93	771	759	(53)	6	777	93	101	775
may-17	92	759	770	0,99	769	827	(9)	66	834	99	108	827
jun-17	93	827	768	1,08	767	821	61	69	836	108	108	827
jul-17	94	821	765	1,07	765	764	57	9	774	107	101	773
ago-17	95	764	766	1,00	762	783	1	25	787	100	103	785
sep-17	96	783	767	1,02	760	732	23	(64)	696	103	93	709
oct-17	97	732	772	0,95	758	756	(26)	11	769	97	101	766
nov-17	98	756	779	0,97	756	787	0	23	779	100	103	777
dic-17	99	787	781	1,01	754	732	33	(27)	727	104	97	729



## Energía (kWh)

### CLASSICAL DECOMPOSITION TEMPLATE

### ADDITIVE FORECAST METHOD

### MULTIPLICATIVE FORECAST METHOD

Slope of Trend Line		(32)												
Intercept		8.406												
Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value		
nov-15	74	4.960	5.566	0,89	6.036	6.962	(1.076)	1.028	<b>7.064</b>	82	114	<b>6.894</b>		
dic-15	75	4.568	5.553	0,82	6.004	6.314	(1.436)	364	<b>6.368</b>	76	105	<b>6.280</b>		
ene-16	76	6.314	5.501	1,15	5.972	4.784	342	(1.175)	<b>4.797</b>	106	84	<b>4.992</b>		
feb-16	77	4.784	5.667	0,84	5.940	6.326	(1.155)	401	<b>6.340</b>	81	106	<b>6.273</b>		
mar-16	78	6.326	5.497	1,15	5.908	5.615	418	(216)	<b>5.691</b>	107	97	<b>5.705</b>		
abr-16	79	5.615	5.743	0,98	5.876	6.105	(260)	499	<b>6.375</b>	96	106	<b>6.248</b>		
may-16	80	6.105	5.680	1,07	5.844	5.946	261	269	<b>6.113</b>	104	104	<b>6.050</b>		
jun-16	81	5.946	5.614	1,06	5.812	7.566	135	2.003	<b>7.815</b>	102	128	<b>7.434</b>		
jul-16	82	7.566	5.777	1,31	5.780	5.851	1.786	377	<b>6.156</b>	131	105	<b>6.091</b>		
ago-16	83	5.851	5.743	1,02	5.747	6.317	103	598	<b>6.345</b>	102	110	<b>6.320</b>		
sep-16	84	6.317	5.717	1,10	5.715	3.814	602	(2.434)	<b>3.281</b>	111	65	<b>3.734</b>		
oct-16	85	3.814	5.683	0,67	5.683	4.166	(1.870)	(1.667)	<b>4.016</b>	67	77	<b>4.383</b>		
nov-16	86	4.166	5.653	0,74	5.651	6.519	(1.486)	1.028	<b>6.680</b>	74	114	<b>6.455</b>		
dic-16	87	6.519	5.620	1,16	5.619	5.910	899	364	<b>5.983</b>	116	105	<b>5.878</b>		
ene-17	88	5.910	5.587	1,06	5.587	4.476	322	(1.175)	<b>4.412</b>	106	84	<b>4.671</b>		
feb-17	89	4.476	5.545	0,81	5.555	5.916	(1.079)	401	<b>5.956</b>	81	106	<b>5.867</b>		
mar-17	90	5.916	5.513	1,07	5.523	5.250	393	(216)	<b>5.307</b>	107	97	<b>5.334</b>		
abr-17	91	5.250	5.478	0,96	5.491	5.705	(241)	499	<b>5.990</b>	96	106	<b>5.840</b>		
may-17	92	5.705	5.456	1,05	5.459	5.555	246	269	<b>5.728</b>	105	104	<b>5.652</b>		
jun-17	93	5.555	5.433	1,02	5.427	7.065	128	2.003	<b>7.430</b>	102	128	<b>6.942</b>		
jul-17	94	7.065	5.396	1,31	5.395	5.462	1.670	377	<b>5.772</b>	131	105	<b>5.686</b>		
ago-17	95	5.462	5.349	1,02	5.363	5.895	99	598	<b>5.961</b>	102	110	<b>5.897</b>		
sep-17	96	5.895	5.437	1,08	5.331	3.557	563	(2.434)	<b>2.897</b>	111	65	<b>3.483</b>		
oct-17	97	3.557	5.383	0,66	5.299	3.884	(1.742)	(1.667)	<b>3.632</b>	67	77	<b>4.087</b>		
nov-17	98	3.884	5.400	0,72	5.267	6.075	(1.383)	1.028	<b>6.295</b>	74	114	<b>6.016</b>		
dic-17	99	6.075	5.356	1,13	5.235	5.505	840	364	<b>5.599</b>	116	105	<b>5.476</b>		

- Alimentador A68

**Demanda (kVA)**

*CLASSICAL DECOMPOSITION TEMPLATE*

*ADDITIVE FORECAST METHOD*

*MULTIPLICATIVE FORECAST METHOD*

Slope of Trend Line		(10)											
Intercept		5.662											
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value (Ft)	
nov-15	74	4.019	5.025	0,80	4.929	5.069	(910)	154	<b>5.082</b>	82	103	<b>5.061</b>	
dic-15	75	4.262	4.943	0,86	4.919	5.187	(657)	326	<b>5.245</b>	87	106	<b>5.207</b>	
ene-16	76	5187	4.902	-	4.909	4.940	(4.909)	76	<b>4.984</b>	-	101	<b>4.978</b>	
feb-16	77	4.940	4.887	1,01	4.899	4.537	42	(395)	<b>4.504</b>	101	93	<b>4.532</b>	
mar-16	78	4.537	4.823	0,94	4.889	4.789	(352)	(60)	<b>4.828</b>	93	99	<b>4.831</b>	
abr-16	79	4.789	4.733	1,01	4.879	4.834	(90)	28	<b>4.907</b>	98	100	<b>4.893</b>	
may-16	80	4.834	4.679	1,03	4.869	5.282	(35)	449	<b>5.318</b>	99	108	<b>5.281</b>	
jun-16	81	5.282	4.746	1,11	4.859	5.569	422	667	<b>5.526</b>	109	113	<b>5.473</b>	
jul-16	82	5.569	4.808	1,16	4.849	4.799	720	13	<b>4.862</b>	115	101	<b>4.877</b>	
ago-16	83	4.799	4.829	0,99	4.839	4.505	(40)	(256)	<b>4.584</b>	99	96	<b>4.622</b>	
sep-16	84	4.505	4.819	0,93	4.829	3.938	(324)	(1.024)	<b>3.806</b>	93	81	<b>3.911</b>	
oct-16	85	3.938	4.810	0,82	4.819	4.753	(882)	(50)	<b>4.769</b>	82	99	<b>4.774</b>	
nov-16	86	4.753	4.801	0,99	4.810	4.946	(57)	154	<b>4.964</b>	99	103	<b>4.939</b>	
dic-16	87	4.946	4.791	1,03	4.800	5.062	147	326	<b>5.126</b>	103	106	<b>5.081</b>	
ene-17	88	5.062	4.780	1,06	4.790	4.821	272	76	<b>4.865</b>	106	101	<b>4.857</b>	
feb-17	89	4.821	4.769	1,01	4.780	4.427	41	(395)	<b>4.385</b>	101	93	<b>4.422</b>	
mar-17	90	4.427	4.759	0,93	4.770	4.672	(343)	(60)	<b>4.709</b>	93	99	<b>4.713</b>	
abr-17	91	4.672	4.750	0,98	4.760	4.716	(88)	28	<b>4.788</b>	98	100	<b>4.774</b>	
may-17	92	4.716	4.742	0,99	4.750	5.153	(34)	449	<b>5.199</b>	99	108	<b>5.152</b>	
jun-17	93	5.153	4.732	1,09	4.740	5.433	412	667	<b>5.407</b>	109	113	<b>5.339</b>	
jul-17	94	5.433	4.722	1,15	4.730	4.681	702	13	<b>4.743</b>	115	101	<b>4.757</b>	
ago-17	95	4.681	4.691	1,00	4.720	4.394	(39)	(256)	<b>4.465</b>	99	96	<b>4.508</b>	
sep-17	96	4.394	4.678	0,94	4.710	3.841	(316)	(1.024)	<b>3.687</b>	93	81	<b>3.815</b>	
oct-17	97	3.841	4.705	0,82	4.701	4.636	(860)	(50)	<b>4.650</b>	82	99	<b>4.656</b>	
nov-17	98	4.636	4.710	0,98	4.691	4.824	(55)	154	<b>4.845</b>	99	103	<b>4.817</b>	
dic-17	99	4.824	4.709	1,02	4.681	4.936	143	326	<b>5.007</b>	103	106	<b>4.955</b>	

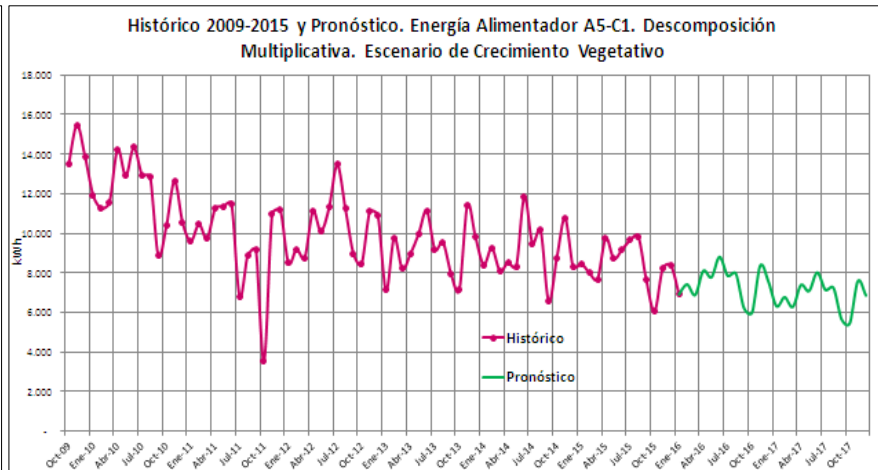
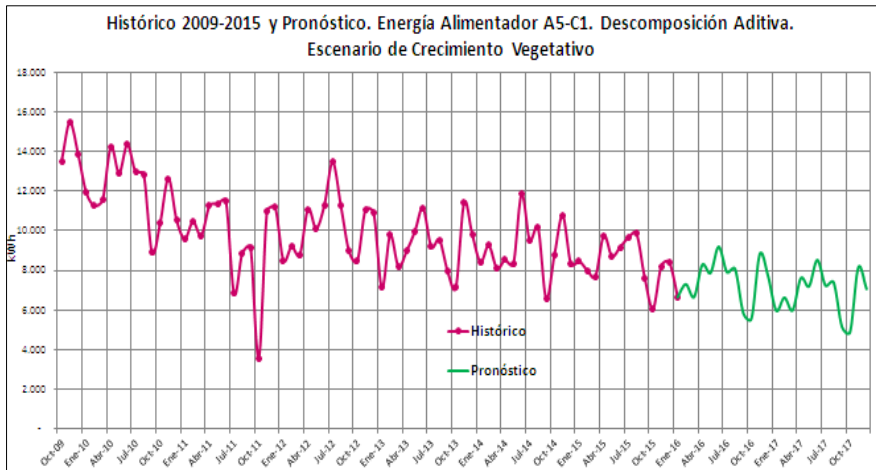
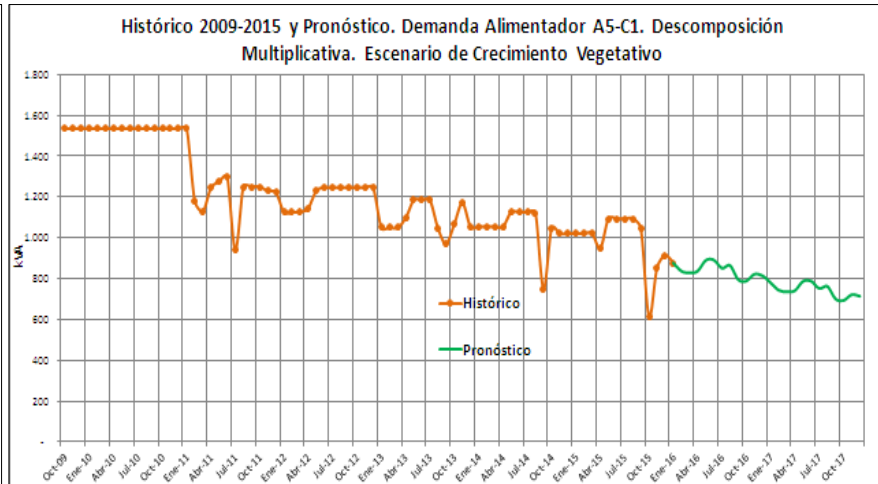
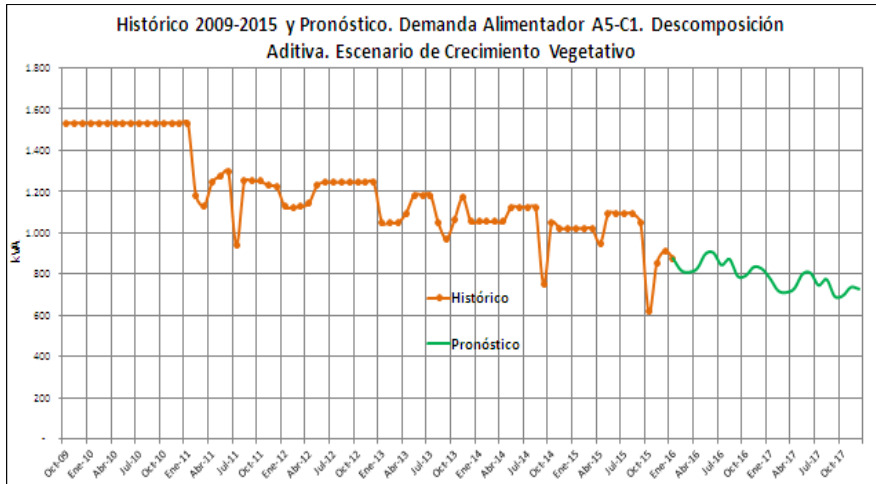
## Energía (kWh)

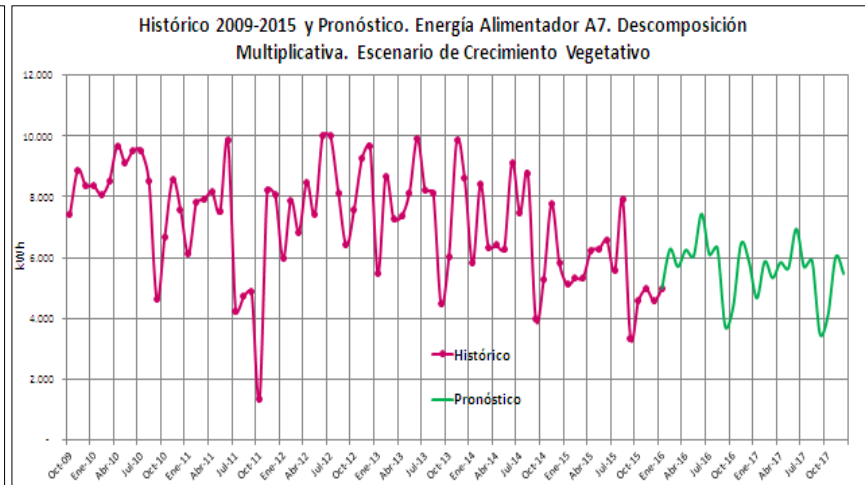
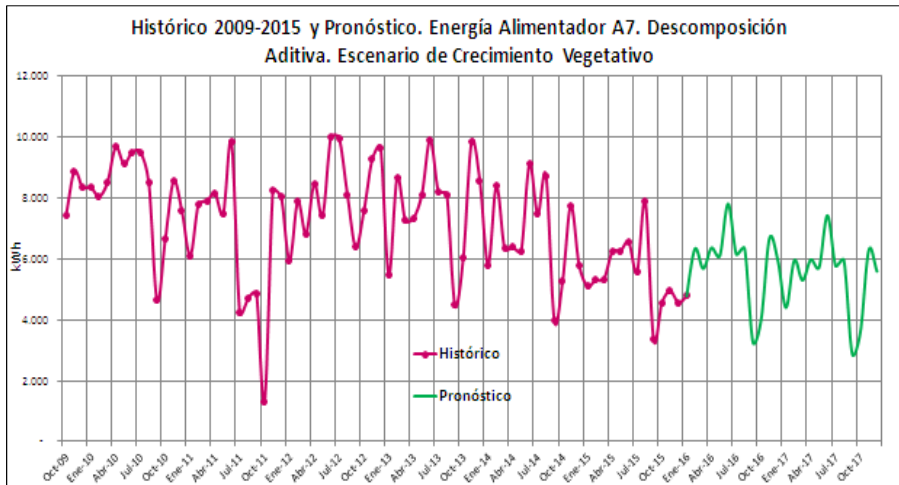
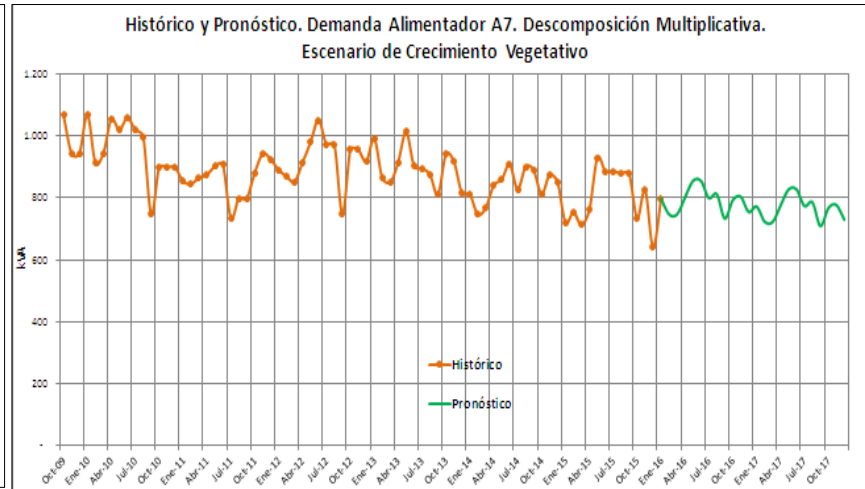
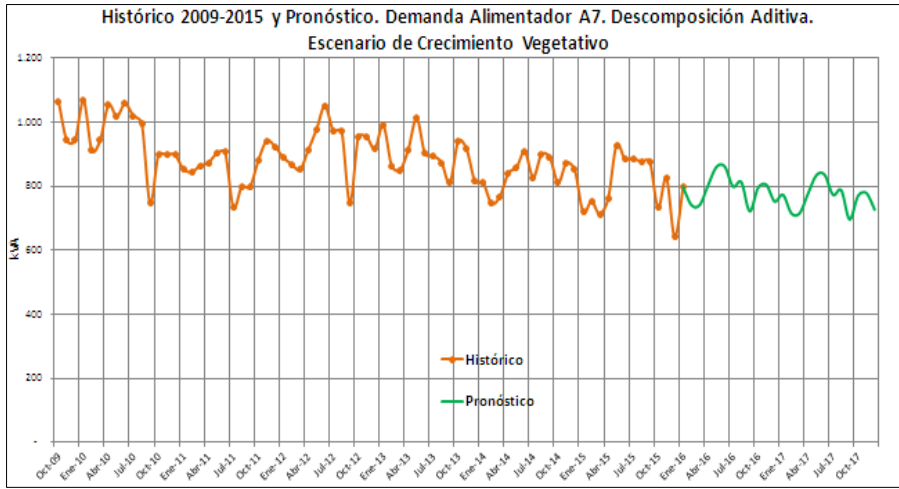
### CLASSICAL DECOMPOSITION TEMPLATE

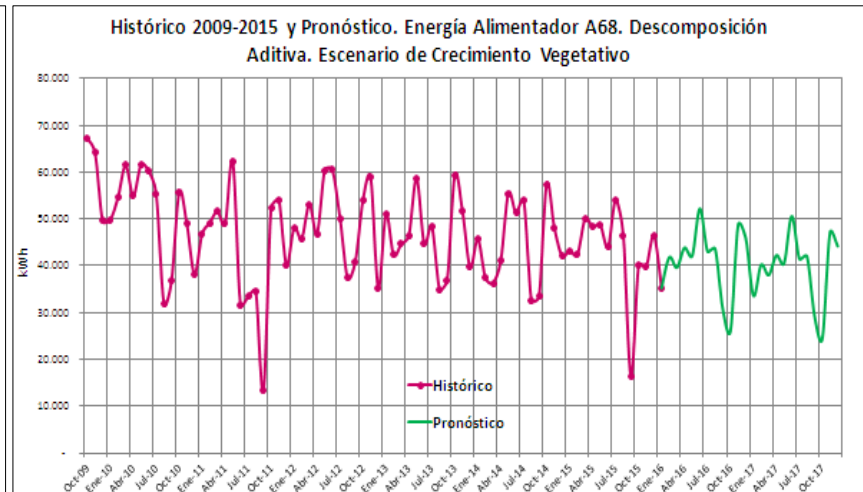
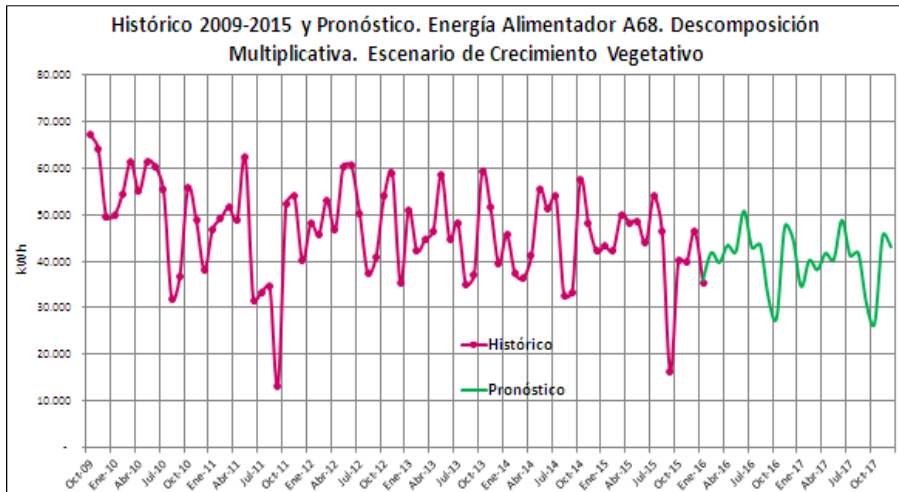
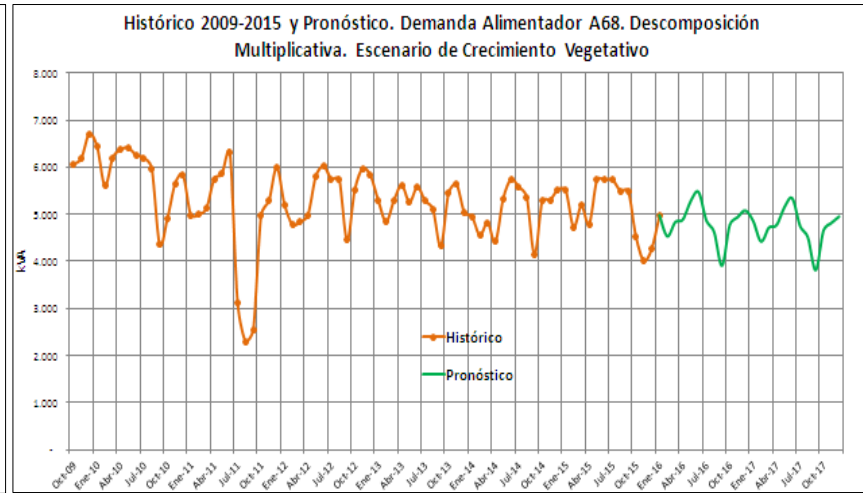
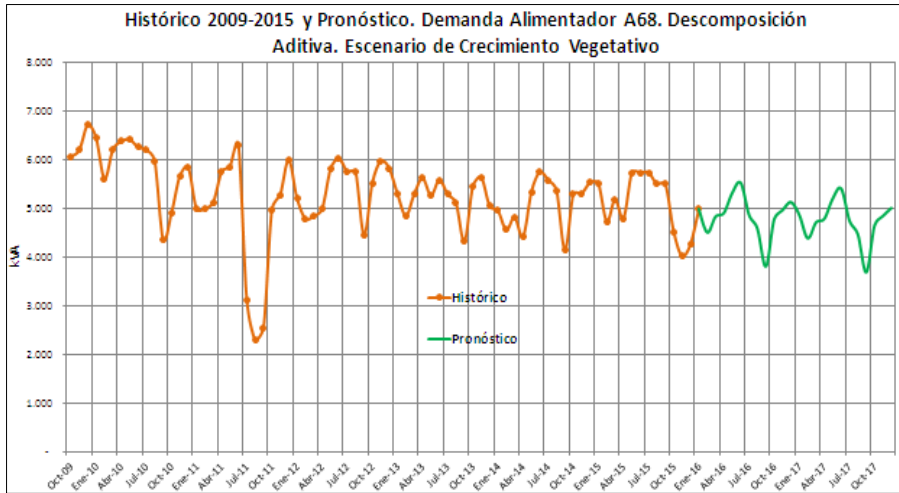
### ADDITIVE FORECAST METHOD

### MULTIPLICATIVE FORECAST METHOD

Slope of Trend Line		(134)										
Intercept		51.990										
Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast (Tf)	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Multiplicative Forecast Value (Ft)
nov-15	74	40.107	41.829	0,96	42.050	48.922	(1.943)	8.240	<b>50.290</b>	95	117	<b>49.359</b>
dic-15	75	39.845	41.333	0,96	41.916	46.337	(2.071)	5.480	<b>47.396</b>	95	111	<b>46.705</b>
ene-16	76	46.413	40.776	1,14	41.782	35.636	4.631	(6.582)	<b>35.199</b>	111	86	<b>36.018</b>
feb-16	77	35.636	41.427	0,86	41.647	42.707	(6.011)	140	<b>41.787</b>	86	100	<b>41.825</b>
mar-16	78	42.707	40.403	1,06	41.513	39.403	1.194	(1.907)	<b>39.606</b>	103	96	<b>39.724</b>
abr-16	79	39.403	40.128	0,98	41.379	42.360	(1.975)	2.473	<b>43.852</b>	95	105	<b>43.431</b>
may-16	80	42.360	41.575	1,02	41.244	41.953	1.116	873	<b>42.118</b>	103	102	<b>42.020</b>
jun-16	81	41.953	40.380	1,04	41.110	51.787	843	11.062	<b>52.172</b>	102	124	<b>50.790</b>
jul-16	82	51.787	40.981	1,26	40.976	41.806	10.811	2.113	<b>43.089</b>	126	105	<b>42.887</b>
ago-16	83	41.806	40.826	1,02	40.841	43.201	965	2.721	<b>43.563</b>	102	107	<b>43.528</b>
sep-16	84	43.201	40.711	1,06	40.707	33.680	2.494	(10.011)	<b>30.696</b>	106	79	<b>32.198</b>
oct-16	85	33.680	40.574	0,83	40.573	25.773	(6.892)	(14.476)	<b>26.096</b>	83	69	<b>27.855</b>
nov-16	86	25.773	40.446	0,64	40.438	47.047	(14.665)	8.240	<b>48.678</b>	64	117	<b>47.467</b>
dic-16	87	47.047	40.309	1,17	40.304	44.555	6.743	5.480	<b>45.785</b>	117	111	<b>44.909</b>
ene-17	88	44.555	40.172	1,11	40.170	34.261	4.385	(6.582)	<b>33.587</b>	111	86	<b>34.629</b>
feb-17	89	34.261	40.003	0,86	40.035	41.055	(5.774)	140	<b>40.175</b>	86	100	<b>40.207</b>
mar-17	90	41.055	39.866	1,03	39.901	37.873	1.153	(1.907)	<b>37.994</b>	103	96	<b>38.182</b>
abr-17	91	37.873	39.724	0,95	39.767	40.710	(1.893)	2.473	<b>42.240</b>	95	105	<b>41.739</b>
may-17	92	40.710	39.612	1,03	39.633	40.313	1.078	873	<b>40.506</b>	103	102	<b>40.378</b>
jun-17	93	40.313	39.527	1,02	39.498	49.756	815	11.062	<b>50.560</b>	102	124	<b>48.799</b>
jul-17	94	49.756	39.371	1,26	39.364	40.162	10.392	2.113	<b>41.477</b>	126	105	<b>41.200</b>
ago-17	95	40.162	38.899	1,03	39.230	41.496	932	2.721	<b>41.951</b>	102	107	<b>41.810</b>
sep-17	96	41.496	39.363	1,05	39.095	32.347	2.401	(10.011)	<b>29.084</b>	106	79	<b>30.923</b>
oct-17	97	32.347	39.175	0,83	38.961	24.749	(6.614)	(14.476)	<b>24.485</b>	83	69	<b>26.749</b>
nov-17	98	24.749	39.338	0,63	38.827	45.172	(14.077)	8.240	<b>47.067</b>	64	117	<b>45.574</b>
dic-17	99	45.172	39.142	1,15	38.692	42.773	6.479	5.480	<b>44.173</b>	117	111	<b>43.113</b>







## [ANEXO N°9]

### Pronóstico a corto y mediano plazo bajo escenario de nuevas cargas, con base al histórico 2009-2015

- ✓ Método de Suavizado Exponencial de Holt-Winters
- Alimentador A7

#### Demanda (kVA)

Alpha	Beta	Gamma
0,20	0,80	-

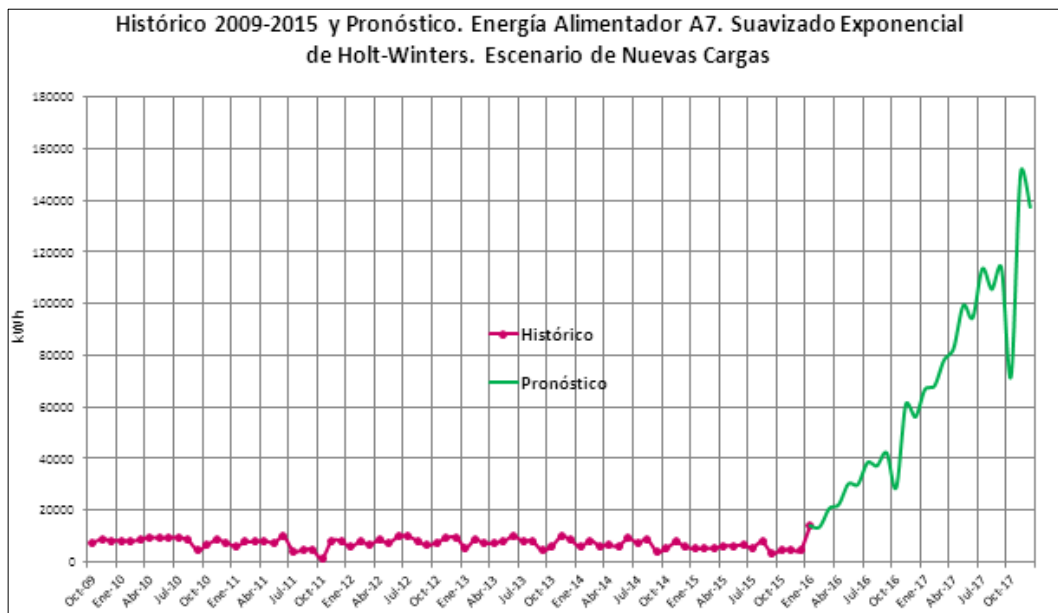
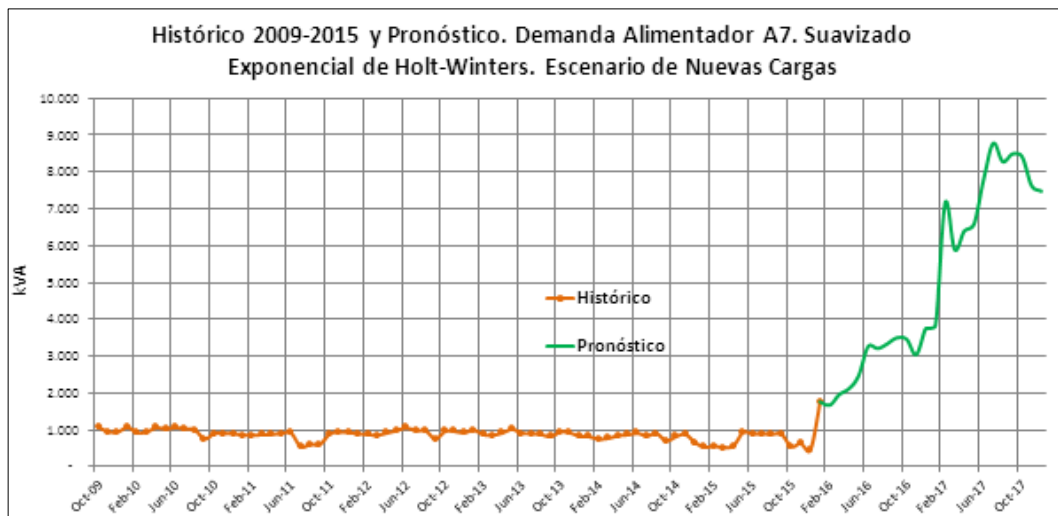
Date Data (Mes-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	74	629	785	0,00	0,84	804
dic-15	75	444	741	0,00	0,64	1.761
ene-16	76	1.761	1.093	0,00	1,43	1.665
feb-16	77	1.665	1.321	0,00	1,16	1.958
mar-16	78	1.958	1.589	0,00	1,13	2.114
abr-16	79	2.114	1.781	0,00	1,12	2.461
may-16	80	2.461	1.838	0,00	1,31	3.264
jun-16	81	3.264	2.052	0,00	1,50	3.207
jul-16	82	3.207	2.242	0,00	1,36	3.336
ago-16	83	3.336	2.428	0,00	1,31	3.500
sep-16	84	3.500	2.676	0,00	1,24	3.460
oct-16	85	3.460	3.116	0,00	1,03	3.042
nov-16	86	3.042	3.220	0,00	0,92	3.751
dic-16	87	3.751	3.754	0,00	0,93	3.842
ene-17	88	3.842	3.540	0,00	1,15	7.159
feb-17	89	7.159	4.069	0,00	1,64	5.889
mar-17	90	5.889	4.295	0,00	1,32	6.400
abr-17	91	6.400	4.584	0,00	1,34	6.580
may-17	92	6.580	4.673	0,00	1,39	7.791
jun-17	93	7.791	4.779	0,00	1,60	8.785
jul-17	94	8.785	5.117	0,00	1,64	8.280
ago-17	95	8.280	5.359	0,00	1,50	8.490
sep-17	96	8.490	5.660	0,00	1,45	8.420
oct-17	97	8.420	6.163	0,00	1,30	7.621
nov-17	98	7.621	6.581	0,00	1,11	7.480
dic-17	99	7.480	6.879	0,00	1,06	7.890

#### Energía (kWh)

Alpha	Beta	Gamma
0,70	0,10	-

Date Period (Mmm-AA)	Time Period (t)	Actual Demand (At)	Smoothed Average (St)	Smoothed Trend (Tt)	Smoothed Seasonal (It)	Forecast (Ft)
nov-15	240	4.960	4.922	0,00	1,08	6.258
dic-15	241	4.568	4.680	0,00	1,00	14.058
ene-16	242	14.058	11.752	0,00	0,98	13.594
feb-16	243	13.594	13.178	0,00	0,99	20.730
mar-16	244	20.730	18.472	0,00	1,01	22.314
abr-16	245	22.314	19.236	0,00	1,14	30.213
may-16	246	30.213	25.176	0,00	1,10	30.109
jun-16	247	30.109	25.642	0,00	1,17	38.479
jul-16	248	38.479	32.196	0,00	1,11	37.331
ago-16	249	37.331	35.049	0,00	1,03	42.279
sep-16	250	42.279	63.188	0,00	0,57	28.837
oct-16	251	28.837	43.535	0,00	0,81	61.039
nov-16	252	61.039	52.661	0,00	1,09	56.117
dic-16	253	56.117	55.234	0,00	1,00	66.783
ene-17	254	66.783	64.495	0,00	0,98	68.206

feb-17	255	68.206	67.553	0,00	0,99	78.208
mar-17	256	78.208	74.376	0,00	1,02	82.673
abr-17	257	82.673	72.965	0,00	1,14	99.305
may-17	258	99.305	85.032	0,00	1,11	94.654
jun-17	259	94.654	82.331	0,00	1,16	113.482
jul-17	260	113.482	96.339	0,00	1,12	105.620
ago-17	261	105.620	100.489	0,00	1,03	113.825
sep-17	262	113.825	169.300	0,00	0,58	71.867
oct-17	263	71.867	113.253	0,00	0,79	150.681
nov-17	264	150.681	131.012	0,00	1,09	137.431
dic-17	265	137.431	135.691	0,00	1,00	145.088





✓ Método de Descomposición según el Modelo Aditivo y Método de Descomposición según el Modelo Multiplicativo

• Alimentador A7

**Demanda (kVA)**

CLASSICAL DECOMPOSITION TEMPLATE							ADDITIVE FORECAST METHOD			MULTIPLICATIVE FORECAST METHOD			
Slope of Trend Line		(2)											
Intercept		966											
Date Period (Mmm-AA)	Time Period (t)	kVA Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value (Tt)	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors (It)	Multiplicative Forecast Value (Ft)	
nov-15	74	825	1.457	0,57	807	779	18	23	831	102	103	830	
dic-15	75	640	1.634	0,39	805	1.870	(165)	(27)	779	80	97	779	
ene-16	76	1.885	1.829	1,03	1.946	3.036	(61)	(4)	1.942	97	99	1.932	
feb-16	77	3.036	2.023	1,50	1.944	2.958	1.092	(59)	1.885	156	93	1.813	
mar-16	78	2.958	2.206	1,34	1.942	2.947	1.016	(57)	1.885	152	93	1.814	
abr-16	79	2.947	2.390	1,23	1.940	3.054	1.007	6	1.946	152	101	1.949	
may-16	80	3.054	2.570	1,19	1.938	3.228	1.116	66	2.003	158	108	2.083	
jun-16	81	3.228	2.747	1,18	1.935	3.216	1.293	69	2.005	167	108	2.088	
jul-16	82	3.216	2.944	1,09	1.933	3.074	1.283	9	1.942	166	101	1.956	
ago-16	83	3.074	3.081	1,00	1.931	3.080	1.143	25	1.956	159	103	1.989	
sep-16	84	3.080	3.185	0,97	1.929	2.890	1.151	(64)	1.865	160	93	1.798	
oct-16	85	2.890	3.287	0,88	1.927	2.958	963	11	1.938	150	101	1.948	
nov-16	86	2.958	3.390	0,87	1.925	3.000	1.033	23	1.948	154	103	1.978	
dic-16	87	3.000	3.495	0,86	1.923	3.526	1.077	(27)	1.896	156	97	1.860	
ene-17	88	3.526	3.605	0,98	2.568	4.289	957	(4)	2.564	137	99	2.550	
feb-17	89	4.289	3.714	1,15	2.566	4.187	1.723	(59)	2.507	167	93	2.393	
mar-17	90	4.187	3.820	1,10	2.564	4.173	1.623	(57)	2.507	163	93	2.395	
abr-17	91	4.173	3.926	1,06	2.562	4.315	1.611	6	2.568	163	101	2.575	
may-17	92	4.315	4.027	1,07	2.560	4.546	1.755	66	2.625	169	108	2.752	
jun-17	93	4.546	4.130	1,10	2.558	4.531	1.988	69	2.627	178	108	2.759	
jul-17	94	4.531	4.234	1,07	2.556	4.344	1.975	9	2.565	177	101	2.585	
ago-17	95	4.344	4.298	1,01	2.553	4.353	1.791	25	2.578	170	103	2.630	
sep-17	96	4.353	4.299	1,01	2.551	4.102	1.802	(64)	2.487	171	93	2.378	
oct-17	97	4.102	4.311	0,95	2.549	4.192	1.553	11	2.560	161	101	2.577	
nov-17	98	4.192	4.329	0,97	2.547	4.248	1.645	23	2.570	165	103	2.618	
dic-17	99	4.248	4.331	0,98	2.545	4.087	1.703	(27)	2.518	167	97	2.463	

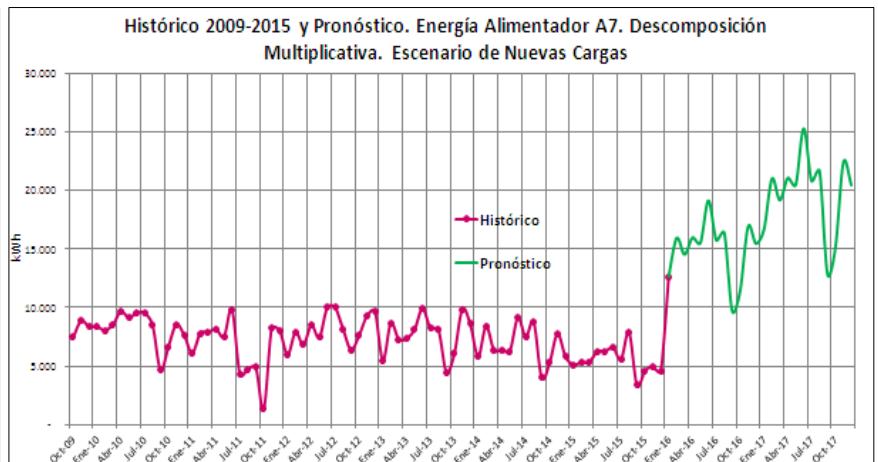
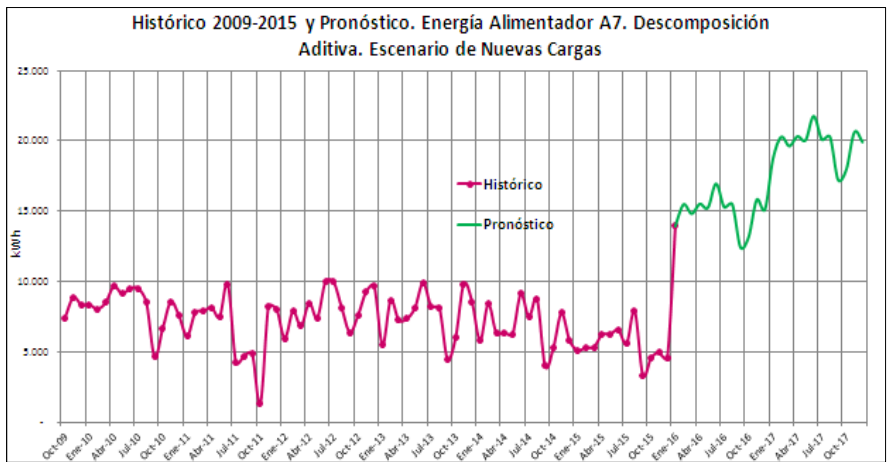
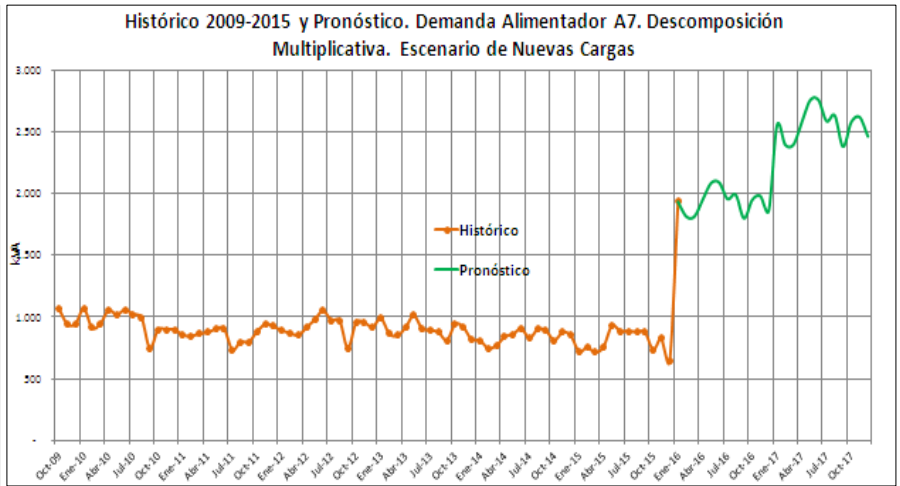
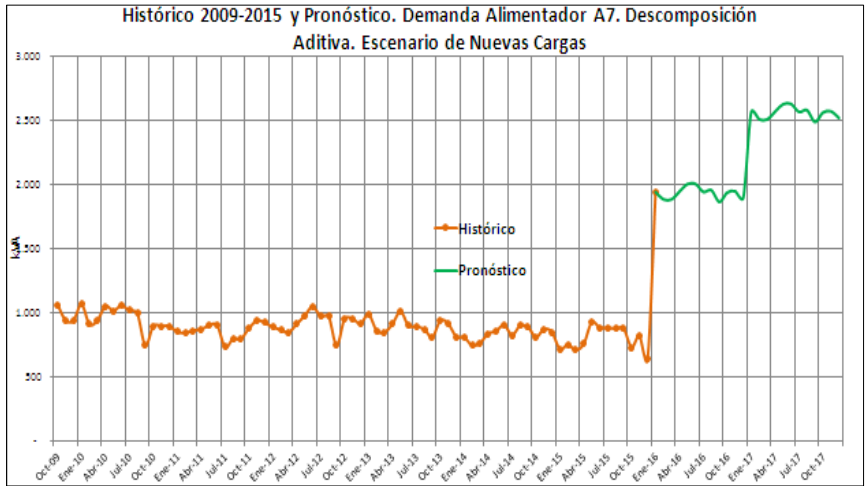
## Energía (kWh)

### CLASSICAL DECOMPOSITION TEMPLATE

### ADDITIVE FORECAST METHOD

### MULTIPLICATIVE FORECAST METHOD

Slope of Trend Line		(32)										
Intercept		8.406										
Date Period (Mmm-AA)	Time Period (t)	kWh Actual Value (At)	Centered Moving Average (CMA-5)	Seasonal Indices	Trend Adjusted Forecast Value	Trend & Seasonal Adjusted Forecast Value	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Additive Forecast Value (Ft)	Detrend Adjusted Forecast Value	Detrend Seasonal Factors	Multiplicative Forecast Value
nov-15	74	4.960	10.733	0,46	6.036	6.531	(1.076)	1.028	<b>7.064</b>	82	114	<b>6.894</b>
dic-15	75	4.568	12.273	0,37	6.004	15.007	(1.436)	364	<b>6.368</b>	76	105	<b>6.280</b>
ene-16	76	15.130	13.760	1,10	15.116	21.254	14	(1.175)	<b>13.941</b>	100	84	<b>12.635</b>
feb-16	77	21.254	15.680	1,36	15.084	25.208	6.170	401	<b>15.484</b>	141	106	<b>15.931</b>
mar-16	78	25.208	17.042	1,48	15.052	23.451	10.156	(216)	<b>14.835</b>	167	97	<b>14.536</b>
abr-16	79	23.451	18.847	1,24	15.020	24.749	8.432	499	<b>15.519</b>	156	106	<b>15.973</b>
may-16	80	24.749	20.014	1,24	14.988	24.395	9.762	269	<b>15.257</b>	165	104	<b>15.517</b>
jun-16	81	24.395	21.202	1,15	14.956	28.613	9.440	2.003	<b>16.959</b>	163	128	<b>19.130</b>
jul-16	82	28.613	22.917	1,25	14.924	24.251	13.690	377	<b>15.300</b>	192	105	<b>15.728</b>
ago-16	83	24.251	23.620	1,03	14.891	25.021	9.360	598	<b>15.489</b>	163	110	<b>16.374</b>
sep-16	84	25.021	24.372	1,03	14.859	18.562	10.161	(2.434)	<b>12.425</b>	168	65	<b>9.708</b>
oct-16	85	18.562	25.230	0,74	14.827	19.217	3.735	(1.667)	<b>13.160</b>	125	77	<b>11.435</b>
nov-16	86	19.217	26.042	0,74	14.795	25.153	4.421	1.028	<b>15.824</b>	130	114	<b>16.900</b>
dic-16	87	25.153	26.890	0,94	14.763	23.562	10.389	364	<b>15.127</b>	170	105	<b>15.442</b>
ene-17	88	23.562	27.729	0,85	19.915	30.283	3.646	(1.175)	<b>18.740</b>	118	84	<b>16.648</b>
feb-17	89	30.283	28.682	1,06	19.883	35.504	10.400	401	<b>20.284</b>	152	106	<b>21.000</b>
mar-17	90	35.504	29.518	1,20	19.851	33.197	15.652	(216)	<b>19.635</b>	179	97	<b>19.171</b>
abr-17	91	33.197	30.377	1,09	19.819	34.920	13.378	499	<b>20.318</b>	168	106	<b>21.077</b>
may-17	92	34.920	31.062	1,12	19.787	34.464	15.133	269	<b>20.056</b>	176	104	<b>20.486</b>
jun-17	93	34.464	31.766	1,08	19.755	40.046	14.708	2.003	<b>21.758</b>	174	128	<b>25.270</b>
jul-17	94	40.046	32.631	1,23	19.723	34.294	20.322	377	<b>20.100</b>	203	105	<b>20.787</b>
ago-17	95	34.294	33.455	1,03	19.691	35.322	14.603	598	<b>20.289</b>	174	110	<b>21.652</b>
sep-17	96	35.322	33.773	1,05	19.659	26.788	15.663	(2.434)	<b>17.225</b>	180	65	<b>12.843</b>
oct-17	97	26.788	33.580	0,80	19.627	27.661	7.161	(1.667)	<b>17.960</b>	136	77	<b>15.136</b>
nov-17	98	27.661	33.628	0,82	19.595	35.530	8.066	1.028	<b>20.623</b>	141	114	<b>22.382</b>
dic-17	99	35.530	33.443	1,06	19.563	33.433	15.967	364	<b>19.927</b>	182	105	<b>20.463</b>



## [ANEXO N° 10]

### **Código de la macro utilizada en Microsoft Excel para la inicialización del Método de Suavizado Exponencial de Holt- Winters**

```
Sub findpar()  
Application.ScreenUpdating = "false"  
madbest = 99999  
For a = 0 To 1 Step 0.05  
    Range("a4").Value = a  
    For b = 0 To 1 Step 0.05  
        Range("b4").Value = b  
        For g = 0 To 1 Step 0.05  
            Range("c4").Value = g  
            If Range("i3").Value < madbest Then  
                alpha = a  
                beta = b  
                gamma = g  
                madbest = Range("i3").Value  
            End If  
        Next g  
    Next b  
Next a  
Range("a4").Value = alpha  
Range("b4").Value = beta  
Range("c4").Value = gamma  
Application.ScreenUpdating = "true"  
End Sub
```