

Smart Energy Forecast

Obs	Unnamed: 0	Date Time Hour Beginning	Original Res Forecast before Loc	Residual Forecast	RSA Contracted Forecast	Dispatchable Generation	Residual Demand	RSA Contracted Demand	International Exports	International Imports	Thermal Generation	Nuclear Generation	Eskom Gas Generation	Eskom OCGT Generation	Hydro Water Generation	Gen
1	0	01APR18:00:00:00	0	19904.967	20367.066	20237	20237	20722.058	1215.902	1120	19444	931	0	0	360	
2	1	01APR18:01:00:00	0	19553.899	19988.733	19744	19744	20188.493	1203.474	1106	19297	930	0	0	360	
3	2	01APR18:02:00:00	0	19314.284	19731.239	19631	19631	20019.603	1177.571	1117	19165	931	0	0	360	
4	3	01APR18:03:00:00	0	19342.679	19753.554	19731	19731	20079.454	1184.312	1118	19279	930	0	0	360	
5	4	01APR18:04:00:00	0	19538.89	19988.365	19890	19890	20237.49	1197.271	1108	19369	930	0	0	360	
6	5	01APR18:05:00:00	0	20103.838	20600.806	20372	20372	20729.45	1270.385	1125	19342	931	0	0	360	
7	6	01APR18:06:00:00	0	21036.213	21560.2	21280	21280	21636.397	1289.362	1178	19363	931	0	0	360	
8	7	01APR18:07:00:00	0	22681.703	23447.173	22651	22651	23317.205	1367.023	1214	19867	932	0	0	475	
9	8	01APR18:08:00:00	0	24013.352	25242.639	23677	23677	24814.033	1396.007	1236	20645	931	0	0	481	
10	9	01APR18:09:00:00	0	24241.366	25795.037	24053	24053	25485.461	1395.675	1234	20880	931	0	0	362	
11	10	01APR18:10:00:00	0	23991.598	25713.658	23708	23708	25410.147	1407.647	1217	20593	930	0	0	360	
12	11	01APR18:11:00:00	0	23765.734	25541.204	23225	23637.5	25441.002	1424.925	1209	20516	930	0	0	360	
13	12	01APR18:12:00:00	0	23523.74	25278.346	22841	23308.5	25127.191	1435.328	1205	20099	930	0	0	360	
14	13	01APR18:13:00:00	0	23010.643	24725.401	22264	22264	24028.863	1263.491	1220	19700	930	0	0	360	
15	14	01APR18:14:00:00	0	22381.707	24038.028	21625	21625	23449.222	1227.089	1234	19145	930	0	0	360	
16	15	01APR18:15:00:00	0	22310.223	23847.695	21510	21510	23279.236	1224.292	1253	19010	931	0	0	360	
17	16	01APR18:16:00:00	0	22660.859	24023.786	21739	21739	23361.206	1307.277	1230	19223	931	0	0	360	
18	17	01APR18:17:00:00	0	23678.06	24712.683	23074	23074	24243.66	1379.294	1238	19857	930	0	0	360	
19	18	01APR18:18:00:00	0	25714.194	26458.402	25017	25017	25859.329	1613.563	1160	21146	930	0	0	475	
20	19	01APR18:19:00:00	0	25665.505	26328.402	24863	24863	25596.216	1631.14	1136	20817	930	0	0	480	

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The MEANS Procedure

Variable	N	Mean	Std Dev	Minimum	Maximum
Unnamed: 0	43824	21911.50	12651.04	0	43823.00
Date Time Hour Beginning	43824	1917041400	45543756.37	1838160000	1995922800
Original Res Forecast before Loc	43824	14268.52	12959.32	0	34900.38
Residual Forecast	43824	24583.76	2966.13	14319.14	34895.85
RSA Contracted Forecast	43824	26140.31	3270.66	15172.65	35562.65
Dispatchable Generation	43824	24414.86	2800.05	13797.94	34256.16
Residual Demand	43824	24617.79	2852.83	13797.94	34906.54
RSA Contracted Demand	43824	26091.47	3088.52	14929.99	35344.81
International Exports	43824	1586.09	199.0042199	58.9260000	2410.24
International Imports	43824	1154.94	212.3877387	0	1765.00
Thermal Generation	43824	21712.48	1923.78	14062.00	30136.00
Nuclear Generation	43824	1313.09	414.3905955	90.0000000	1854.00
Eskom Gas Generation	43824	0.2718014	6.7522192	0	323.0000000
Eskom OCGT Generation	43824	179.6882887	394.7952510	0	2120.00
Hydro Water Generation	43824	159.9702684	204.1038893	0	604.0000000
Pumped Water Generation	43824	559.0394918	590.5067498	0	2739.00
ILS Usage	43824	5.6193188	42.6773797	0	1339.50
Manual Load_Reduction(MLR)	43824	181.0468958	577.3308203	-0.1040000	8736.94
IOS Excl ILS and MLR	43824	16.2635870	66.3866252	-460.0000000	1130.00
Dispatchable IPP OCGT	43824	83.1553604	211.7773326	0	1021.87
Eskom Gas SCO	43824	-1.8181095	0.3668793	-5.0000000	0
Eskom OCGT SCO	43824	-2.8173462	1.7235596	-16.5300000	0
Hydro Water SCO	43824	0	0	0	0
Pumped Water SCO Pumping	43824	-743.1408869	901.7700071	-2848.00	0
Wind	43824	830.4764857	407.3328329	15.6630000	2915.15
PV	43824	463.2923051	547.6589957	0	2099.49
CSP	43824	167.2986567	150.7270012	0	506.2490000
Other RE	43824	12.6089049	5.7006776	0.8490000	46.1530000
Total RE	43824	1473.68	767.1577873	48.7470000	4784.66
Wind Installed Capacity	43824	2363.27	361.111846	2077.72	3303.17
PV Installed Capacity	43824	1806.69	304.4809088	1474.19	2212.09
CSP Installed Capacity	43824	465.1177594	67.9404640	300.0000000	500.0000000
Other RE Installed Capacity	43824	25.0823552	7.2577328	21.7800000	50.5800000
Total RE Installed Capacity	43824	4660.17	679.3806727	3873.69	6065.84
Installed Eskom Capacity	43824	45319.34	1063.04	43691.00	47517.00
Total PCLF	43824	4699.61	1550.44	695.7770000	11289.42
Total UCLF	43824	10094.31	2333.53	3849.93	17968.56
Total OCLF	43824	994.2090834	582.0409164	70.0000000	6354.98
Total UCLF+OCLF	43824	11088.02	2407.55	4119.00	19482.00
Non Comm Sentout	43824	455.3537558	283.9997797	0	1922.00
Drakensberg Gen Unit Hours	43824	644.3612162	483.1298859	0	2506.00
Palmet Gen Unit Hours	43824	82.6984778	10.0573516	17.1000000	102.0000000
Ingula Gen Unit Hours	43824	42.8524165	8.1994050	9.1000000	58.8100000







