

Daily System Generation Summary on Monday

Monday, January 13, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,432 MW
Distillate	0 MW
Total TNB	2,432 MW
Total IPP	17,002 MW
Total Co-Gen	0 MW
Total System	21,305 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,352	2.59 %
Gas	20,261	5.62 %
Total TNB	29,613	8.22 %
ST-Coal	236,053	65.50 %
LSS	2,371	0.66 %
Gas	92,675	25.71 %
Total IPP	331,099	91.87 %
Co-Gen	230	0.06 %
Total Co-Gen	230	0.06 %
Total Generation	360,942	100.15 %
PLTG	-108	-0.03 %
HVDC	640	0.18 %
Interconnection	532	0.15 %
Net Energy	360,410	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:30:00 Hour
Total Set On Bus	18,960 MW
TNB Generation	1,886 MW
IPP Generation	15,477 MW
Spinning Reserve	1,588 MW
Maximum Demand	17,321 MW
Net Energy	360,410 MWH
Load Factor	86.70 %

Fuel Cost

Total Cost:	57,280,217.46 RM
Cost per Unit	15.86 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	452
Hydro	333
Syncon	1,012
Thermal	191
Total	1,988

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	47
SRDG	0
TJGS	100
Total TNB	147
CBPS	49
KLPP	81
NPRI	139
PGLA	54
PLPS	78
SGB3	52
SGRI	74
YPKA	36
Total IPP	564
Total Gas	711
Total Gas Required	711

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	14071	13398	12781	12416	12176	12047	12473	12601	13087	15021	15992	16605	16584	16326	17017	17320	17303	16988	15859	15591	16634	16500	15907	15446

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, March 09, 2020 1:13:47 PM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Monday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																								
JMAH	U002	694	693	694	696	693	693	693	695	693	694	693	693	694	694	690	695	692	695	695	694	693	694	691	701	694	694	693	695	695																			
JMHE	U001	901	792	780	784	776	779	763	782	783	782	781	781	782	780	781	778	780	869	983	981	987	977	978	982	981	979	980	984	981	978	980																	
JMHE	U002	900	781	779	784	780	778	779	781	783	780	781	780	782	779	783	778	778	964	980	981	987	977	978	979	978	984	982	978	979	979																		
JMJG	U001	673	673	668	679	674	671	673	672	607	598	595	598	596	675	668	677	678	677	674	666	667	666	667	669	674	672	673	678	670	679	667	667																
JMJG	U003	667	671	668	668	672	663	665	668	589	588	593	591	599	668	667	667	668	664	667	662	662	659	662	665	657	662	660	662	666	665	667	666																
JMJG	U004	894	834	779	781	782	782	785	782	782	782	783	782	782	785	783	830	850	894	944	972	969	973	974	975	975	977	977	975	977	977	977	977																
JMJG	U005	899	799	783	795	783	783	777	782	782	785	779	782	782	781	783	782	782	840	948	970	980	977	981	977	981	975	979	977	980	978	977	975																
PKLG	U003	195	195	197	196	196	194	196	196	196	197	150	148	197	197	198	199	204	205	206	205	203	205	203	203	205	203	203	203	204	205	204	205																
PKLG	U004	282	282	281	238	233	234	234	232	274	281	242	264	280	281	279	279	280	282	281	281	280	282	280	280	278	277	139	0	0	0	0	0																
PKLG	U005	467	468	467	467	468	468	466	466	405	397	308	268	322	408	469	466	466	467	468	466	468	468	468	468	468	466	466	468	468	466	466	468																
PKLG	U006	449	448	447	447	450	449	448	446	448	446	449	451	396	365	358	358	358	358	358	358	358	358	358	358	360	357	358	358	358	358	360	357																
TBIN	U001	691	691	690	690	498	637	692	689	691	692	692	691	691	690	690	691	691	689	690	689	692	690	691	689	690	691	691	693	690	686	691	690																
TBIN	U002	695	695	693	694	695	692	693	693	693	694	694	693	696	692	698	691	693	694	694	693	695	692	692	694	691	693	692	691	690	689	694	692																
TBIN	U003	692	693	692	693	692	693	692	694	693	693	693	692	693	692	690	691	690	694	695	690	693	692	693	693	691	693	692	695	690	692	692	693																
TBIN	U004	905	843	781	782	782	782	782	784	781	783	784	781	781	784	782	782	832	921	982	983	982	984	981	982	983	982	982	984	982	983	983	983																
Total ST-Coal		10004	9558	9399	9394	9174	9298	9338	9360	9203	9190	9015	8999	9073	9265	9323	9310	9318	9756	10107	10223	10302	10314	10302	10296	10294	10296	10165	10021	10026	10022	10024	10026	10036	10035	10033	10051	10105	10141	10137	10126	10133	10117	10160	10122	10133	10138	10130	10123
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	BLK2	356	363	363	355	356	216	214	212	220	210	220	223	230	215	221	215	259	361	361	362	354	361	361	360	354	361	361	354	361	360	360	360	360	362	362	354	340	218	220	360	360	359	359	362	353	362	360	359
GLGR	GT01	73	74	74	74	73	73	73	73	75	73	74	74	75	73	73	74	75	74	75	74	107	102	103	101	98	72	73	74	73	103	101	102	103	100	100	73	68	70	68	69	68	68	85	85	85	79	68	67
GLGR	GT02	74	73	74	74	74	74	74	74	74	74	74	74	74	74	74	74	104	100	100	100	95	70	72	72	71	102	99	99	99	99	97	69	65	66	66	66	68	67	86	86	85	79	68	68				
GLGR	ST1C	60	61	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	83	89	89	90	89	63	61	62	61	87	90	91	90	90	89	77	72	72	72	71	71	81	81	81	80	71	71		
KLPP	GT13	117	117	116	112	117	115	116	113	116	111	116	116	121	115	117	114	119	120	120	120	121	118	135	131	133	111	135	130	133	134	128	130	132	117	112	109	113	115	125	126	128	138	116	109	117	111	117	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	132	128	144	141	156	123	147	158	155	156	143	139	140	143	127	120	118	122	125	133	134	139	145	125	121	129	122	90
KLPP	GT15	79	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	154	154	131	127	147	142	141	126	153	148	154	154	142	135	139	140	129	120	117	122	125	137	133	138	146	127	122	126	122	131	
KLPP	ST17	107	53	53	53	53	57	51	51	52	49	51	51	53	53	60	57	55	96	127	131	198	195	203	203	204	191	203	203	203	203	199	191	199	199	199	191	183	187	191	199	199	199	191	187	191	191	191	
NPRI	BLK1	492	500	499	493	492	339	329	320	365	316	331	484	531	488	329	318	410	466	400	524	514	509	511	510	502	517	509	512	511	515	515	517	515	512	503	455	370	443	500	506	509	510	510	504	511	503	503	
NPRI	BLK2	502	511	511	502	502	310	305	317	300	317	317	325	313	317	305	395	517	516	517	514	511	512	508	502	517	509	511	514	517	516	515	516	516	510	505	497	310	312	501	506	506	506	506	506	497	506	499	499
PCGP	PGRG	581	597	599	585	584	581	583	378	400	366	400	402	413	544	601	575	604	605	602	600	597	591	594	588	573	605	590	594	595	602	604	601	602	593	579	565	588	595	594	604	603	602	603	581	606	586	590	
PGLA	GT12	175	245	243	176	183	168	167	167	172	164	170	171	211	170	170	166	187	188	173	229	170	204	237	233	228	174	170	233	235	235	235	238	238	238	236	167	162	165	169	233	241	238	243	242	234	243	242	230
PGLA	ST10	93	101																																														

Daily MW Generation on Monday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																									
YPKA	GT11	0	0	0	0	0	0	0	68	72	72	72	126	70	69	69	70	69	70	70	127	127	110	69	68	125	126	126	126	127	127	127	126	68	68	67	68	119	119	119	117	120	118	118						
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	130	127	127	113	70	69	127	128	128	128	128	128	127	69	68	69	69	120	121	121	122	121	118	108	1	0							
YPKA	ST10	0	0	0	0	0	0	0	0	0	0	52	33	33	33	34	33	32	102	119	118	117	82	82	117	120	120	121	120	120	119	82	80	80	79	106	114	115	115	115	113	90	47	48						
Total CCGT-Gas		3752	3751	3749	3494	3470	3138	2934	2709	2810	2745	2841	3042	3174	3283	3150	3118	3520	4291	4557	4909	5199	5512	5687	5727	5639	5394	5469	5643	6025	6174	6162	6163	6120	6198	6004	5504	5235	4864	4981	5789	5902	5871	5788	5641	5370	5385	5074	4929	
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BSIA	HY02	11	11	11	11	11	11	11	11	11	11	12	11	11	11	12	11	11	11	11	11	11	11	12	11	11	11	12	11	11	11	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
CEND	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
KNRG	HY02	23	23	23	23	23	23	23	23	22	23	23	24	23	23	23	23	23	23	23	23	23	23	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23		
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	55	59	99	0	0	0	97	97	100	100	100	100	100	100	100	100	97	95	93	96	99	99	99	99	99	99	0	0	0	0		
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97	97	100	100	100	100	100	100	100	98	95	94	97	100	99	100	99	99	99	98	20	0	0	0	
KNYR	HY04	58	65	59	54	54	55	54	56	58	56	58	58	100	60	60	57	91	69	83	95	55	57	59	60	57	99	59	56	56	64	60	66	100	100	100	97	95	93	96	99	99	99	99	99	98	57	58	58	
LPIA	HY01	23	23	23	23	23	23	23	23	12	12	12	12	14	14	14	14	12	0	0	0	0	0	0	0	0	11	15	15	15	16	16	16	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18		
LPIA	HY02	0	0	0	0	0	0	0	0	10	9	8	8	8	8	10	10	10	10	10	7	7	7	9	11	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5		
PGAU	HY01	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
PGAU	HY03	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
SIHY	HY01	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	32	32	51	51	51	51	51	51	51	30	0	0	0	0	50	50	50	50	50	50	50	0	0	
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	50	50	50	50	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY01	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	17	17	17	25	25	25	25	25	25	25	25	0	0	0	0	0	25	25	25	25	25	25	25	0	0
SYPS	HY02	24	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	17	17	17	25	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
TMGR	HY02	32	34	33	32	32	31	32	31	33	29	33	33	33	33	33	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33		
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
UPIA	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
Total Hydro		273	244	165	178	159	159	159	160	164	167	162	161	205	163	163	184	200	176	212	200	222	202	287	430	289	263	284	645	650	783	907	913	947	948	902	650	511	477	490	501	576	597	576	575	393	235	235	161	

Daily MW Generation on Monday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																									
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	60	118	177	228	291	319	328	377	350	382	302	303	279	264	261	207	169	124	102	55	24	2	0	0	0	0	0	0	0	0	0			
PCUF	CUFG	5	5	5	6	4	4	5	4	6	4	5	4	4	5	6	4	6	4	5	4	4	4	5	4	4	5	5	3	4	5	6	4	4	5	5	6	3	4	5	5	4	5	5	5	5	5	5		
PCUF	CUFK	4	5	7	3	5	5	4	4	7	5	7	5	5	3	5	5	3	6	5	5	4	5	6	5	5	6	5	3	5	4	5	5	5	4	4	6	5	5	6	7	5	7	4	5	4	6			
Total Co-Gen		9	10	12	9	9	9	9	8	13	9	12	9	10	7	9	10	9	10	11	9	9	9	10	9	9	11	10	6	9	9	11	9	9	9	9	12	8	9	11	12	9	12	9	10	9	11			
Total Gen		14038	13563	13325	13075	12812	12604	12440	12237	12190	12111	12030	12211	12462	12718	12645	12622	13069	14293	15005	15518	15960	16328	16605	16790	16609	16314	16309	16622	17014	17264	17366	17372	17321	17359	17072	16316	15915	15518	15618	16425	16622	16597	16533	16350	15905	15768	15448	15224	
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TIE-HVDC		-30	-30	-29	31	31	31	30	30	30	30	31	31	30	30	30	30	31	31	31	31	30	30	30	30	30	30	31	31	30	30	30	29	32	31	31	30	30	32	31	31	29	29	31	29	32	32			
TIE-PLTG		9	-16	-31	-8	12	-15	6	2	-5	24	-36	13	-29	59	26	30	-37	-29	-35	-77	-50	-53	-18	-30	7	-37	-36	-11	-21	21	27	32	1	59	65	47	38	-15	7	-11	-31	-1	16	-28	-21	-39	-18	19	
Interconnection		-21	-46	-61	23	43	15	36	32	26	54	-5	44	1	89	56	60	-6	2	-4	-46	-20	-22	12	0	37	-7	-5	20	9	52	58	63	30	90	96	77	68	15	39	21	0	30	45	1	10	-10	14	51	
System Total		14071	13621	13398	13064	12781	12601	12416	12217	12176	12069	12047	12179	12473	12641	12601	12574	13087	14303	15021	15576	15992	16362	16605	16802	16584	16333	16326	16614	17017	17224	17320	17321	17303	17281	16988	16251	15859	15515	15591	16416	16634	16579	16500	16361	15907	15790	15446	15185	
SRev ST-Coal		568	569	585	601	636	490	573	573	669	715	773	750	760	610	575	575	571	498	326	252	190	178	190	196	198	196	211	187	182	186	184	182	172	173	175	157	198	162	166	177	170	186	143	181	170	165	173	180	
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev CCGT-Gas		557	333	335	590	614	946	1150	1375	1274	1469	1373	1315	1183	1139	1342	1374	1115	788	594	612	729	492	317	287	578	823	748	674	292	257	269	268	321	253	467	977	1246	1607	1490	692	569	560	500	589	642	627	743	671	
SRev ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev Co-Gen		1	0	0	2	1	1	1	2	0	1	0	1	0	3	1	0	2	1	0	1	1	1	1	1	0	1	1	0	0	4	1	1	0	1	1	1	1	0	2	1	0	0	1	0	1	0	1	-1	
Syncon		1354	1203	1354	1203	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1203	1354	1354	1203	1354	1203	1354	1203	1354	965	965	1116	1354	1354	1253	1253	777	525	525	525	525	827	1040	1166	1253	1253	1253	1253	1102	1253	1253	1253	1354	1354	1354
Hydro		185	265	143	281	149	149	149	148	144	145	156	157	113	172	172	302	135	159	274	135	337	206	510	467	357	145	199	147	142	485	613	612	578	577	321	260	173	120	107	96	96	226	96	97	179	148	148	147	
S.Reserve Total		2665	2370	2417	2677	2754	2940	3227	3452	3441	3684	3656	3577	3410	3278	3444	3454	3177	2800	2397	2355	2487	2231	1983	1916	2249	2519	2513	2261	1869	1709	1592	1588	1596	1529	1791	2435	2784	3142	3018	2219	2088	2074	1993	2120	2245	2294	2419	2351	