

Daily System Generation Summary on Sunday

Sunday, October 22, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,177 MW
Distillate	0 MW
Total TNB	2,177 MW
Total IPP	16,668 MW
Total Co-Gen	0 MW
Total System	22,847 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,718	4.10 %
Gas	52,618	15.74 %
Total TNB	66,336	19.84 %
ST-Coal	191,474	57.27 %
LSS	6,479	1.94 %
Gas	69,567	20.81 %
Total IPP	267,520	80.01 %
Co-Gen	-286	-0.09 %
Total Co-Gen	-286	-0.09 %
Total Generation	333,570	99.77 %
PLTG	-76	-0.02 %
HVDC	-708	-0.21 %
Interconnection	-784	-0.23 %
Net Energy	334,354	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	18,013 MW
TNB Generation	3,291 MW
IPP Generation	12,898 MW
Spinning Reserve	1,839 MW
Maximum Demand	16,225 MW
Net Energy	334,354 MWH
Load Factor	85.86 %

Fuel Cost

Total Cost:	76,837,652.22 RM
Cost per Unit	22.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,966
Hydro	237
Syncon	833
Thermal	340
Total	3,376

Time Weather Temperature

Afternoon	Rainy	32
Morning	Cloudy	26

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	150

Total TNB 180

CBPS	38
EMPP	225
NPRI	123
PCGP	76
SPGP	177

Total IPP 639

Total Gas 818

Total Gas Required 818

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	14802	14131	13678	13197	12831	12622	12622	12290	11750	12158	12800	13224	13444	13580	14096	14421	14789	14610	14489	15282	16113	16016	15736	15201

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, October 29, 2023 2:20:19 PM
(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Sunday

		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	U001		698	694	696	697	695	695	695	697	696	695	698	696	694	695	695	697	695	696	696	695	697	697	696	698	696	695	696	699	695	696	699	695	694	691	693														
JMAH	U002		695	698	694	699	695	697	697	693	697	698	697	697	695	694	697	695	696	696	693	694	703	696	695	695	696	696	698	696	699	696	696	698	694	694															
JMHE	U002		981	935	892	899	898	852	850	850	849	801	802	801	800	800	798	799	799	800	800	797	799	801	797	799	851	847	850	852	904	900	902	897	900	901	903	900	901	900	984	979	981	980	980	984	981	979	978		
JMJG	U001		447	450	448	447	448	446	447	443	456	446	448	450	447	453	447	453	458	448	446	453	447	451	449	445	450	456	499	546	559	597	599	621	683	676	676	677	678	677	678	677	678	677	678	677	677	677			
JMJG	U002		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	137	204	294	330	394	423	432	464	521	620	516						
JMJG	U003		668	665	666	667	668	666	667	665	664	668	666	667	670	665	662	667	665	667	666	665	668	668	671	667	671	666	668	665	667	665	666	666	667	667	668	666	666	666	668	669	667	667	667	667	667				
JMJG	U005		977	955	898	900	898	848	847	848	746	738	716	710	702	700	698	698	699	698	699	700	698	700	697	699	700	697	699	700	701	700	698	705	736	751	747	747	751	750	770	849	848	892	962	977	977	978	976	977	
PKLG	U003		274	273	272	272	276	274	273	276	276	278	276	277	275	273	218	206	207	209	239	267	270	276	277	278	275	278	278	281	279	278	279	279	280	272	276	275	275	273	276	274	275	274	278	280	260	167	154		
PKLG	U005		470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470				
TBIN	U001		688	688	687	687	688	688	688	684	689	689	687	688	688	688	688	652	650	600	599	689	691	689	689	689	691	687	689	690	690	689	689	691	686	686	690	689	689	689	691	688	689	688	690	634	600	573			
TBIN	U002		691	687	687	689	690	690	690	687	689	689	689	689	689	692	687	649	651	601	603	672	688	689	686	689	688	689	688	687	689	689	690	686	689	690	686	689	689	689	689	689	689	689	689	689	689	689	689	689	689
TBIN	U003		685	686	687	687	689	689	688	690	687	690	688	687	687	688	648	649	598	597	681	684	686	685	684	685	683	687	683	686	684	686	685	685	686	684	686	684	686	684	686	684	686	685	687	686	684	655	595	591	
TBIN	U004		983	979	934	902	905	864	853	855	852	851	851	851	854	853	853	853	853	850	854	851	853	853	851	852	853	853	852	895	902	904	903	903	902	904	903	903	904	934	978	977	983	985	981	985	983	984	983		
Total ST-Coal			8257	8180	8031	8016	8019	7879	7865	7861	7769	7711	7690	7686	7675	7673	7652	7355	7266	7090	7108	7369	7470	7554	7617	7641	7704	7700	7746	7792	7913	7948	7958	7978	8077	8082	8067	8071	8087	8213	8415	8628	8661	8772	8876	8901	8943	8842	8607	8543	
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		279	210	206	212	208	209	212	213	210	214	213	210	213	212	208	209	199	210	208	205	212	206	202	208	202	208	212	211	212	212	212	212	210	211	212	212	227	300	356	360	281	207	206	206	207	200			
EMPP	BLK1		409	407	406	410	411	409	409	411	409	412	411	410	377	376	373	370	359	374	373	369	375	371	363	372	366	373	375	375	375	444	464	529	601	561	482	519	528	556	662	679	643	707	706	691	697	691	692	676	
EMPP	BLK2		537	461	408	411	410	409	409	410	409	411	411	410	381	381	379	376	364	378	378	373	381	376	368	378	370	378	378	379	380	441	464	530	602	559	479	518	526	554	669	675	644	710	711	692	699	693	692	676	
EMPP	BLK3		538	460	408	411	411	409	410	411	410	411	410	410	381	381	378	375	364	379	379	373	380	376	368	377	371	378	378	380	380	439	465	531	602	560	480	519	527	557	670	674	644	710	705	692	699	692	692	676	
GLGR	GT02		94	95	94	94	94	94	94	94	95	94	94	95	95	95	95	95	95	94	95	94	95	95	94	94	94	94	95	95	95	94	94	94	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94		
GLGR	ST1C		42	41	42	42	42	41	41	41	41	41	42	41	41	42	42	41	41	41	42	42	42	42	42	42	42	41	42	42	42	42	42	42	42	42	41	42	42	42	42	42	42	42	42	42	42	42	42	42	
NPRI	BLK1		512	513	505	318	313	312	313	317	320	319	321	320	317	322	319	314	313	304	316	314	310	319	312	305	314	307	311	320	319	317	318	319	318	473	444	445	445	523	520	518	520	521	517	463	304	302	293		
NPRI	BLK2		528	528	505	481	324	326	329	331	330	343	332	329	332	332	327	326	314	327	326	322	331	322	317	325	316	325	331	329	330	329	331	331	330	480	449	449	448	450	528	517	518	521	520	439	326	324	323	314	
PCGP	PGRG		600	598	585	601	492	441	401	402	401	408	402	399	404	401	390	390	383	390	392	384	400	387	384	389	386	391	402	404	502	602	604	605	602	604	603	600	604	601	601	596	593	598	597	590	593	594	594	571	
SPGP	BLK1		719	719	720	717	718	720	600	500	499	401	360	361	449	500	399	360	360	360	359	360	361	450	450	501	500	500	499	699	714	717	716	718	719	716	719	716	720	720	718	717	713	714	717	711	714	713	712	701	
SPGP	BLK2		715	717	711	716	714	715	601	502	499	406	362	361	449	499	401	360	360	361	361	360	359	451	436	495	486	493	501	693	706	708	721	712	714	712	715	716	717	716	716	711	706	709	716	710	709	706	708	697	
TJGS	GT1A		126	125	125	127	124	126	126	125	127	127	127	125	126	125	126	127	116	124	126	123	127	128	118	124	120	125	127	127	126	128	127	125	126	126	126	125	126	127	123	225	224	196	126	125	127	128	126	119	
TJGS	GT1B		113	116	118	116	111	114	116	112	112	115	116	115	115	114	113	115	104	115	114	113	114	113	115	108	116	116	117	113	118	112	113	114	116	112	114	113	116	113	214	208	182	111	111	115	116	113	108		
TJGS	ST1C		164	164	164	164	164	163	164	163	164	164	164	164	164	163	163	163	160	164	163	163	162	161	164	164	164	164	164	164	164	164	164	164	165	164	164	164	165	164	165	164	165	247	249	224	168	166	162	160	159
TJGS	GT2A		131	131	131	131	130	131	129	131	131	131	131	131	131	131	132	131	131	131	131	131	131	131	131	131	131	131	131	131	131	133	132	130	130	131	131	130	131	131	130	183	187	131	130	131	130	131	130	131	
TJGS	GT2B		128	128	128	127	128	128	128	128	127	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	12																						

Daily MW Generation on Sunday

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																												
KNYR	HY04	95	95	63	95	75	59	95	95	69	93	95	61	93	95	60	59	57	60	59	60	87	58	59	59	58	60	95	71	60	82	95	95	95	92	94	95	95	95	95	84	86	86	84	84	84	84	84	84				
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	19	19	17	17						
LPIA	HY02	18	18	18	18	18	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17				
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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3					
PGAU	HY01	21	21	21	21	21	-1	-1	-1	-1	-1	-1	19	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	20	20	-1	-1	-1	-1	-1	-1	-1					
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1					
SYPS	HY01	24	24	24	24	24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
SYPS	HY03	25	25	25	25	25	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			
SYPS	HY04	25	25	25	25	25	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			
TMGR	HY01	0	-1	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-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	HY04	42	41	40	57	43	42	81	82	42	71	82	41	43	49	42	42	38	42	41	41	42	40	38	41	38	41	41	42	42	41	41	42	43	41	42	43	42	42	45	81	81	81	81	81	81	81	81	81	81	81	81	
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	-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	-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	3	3			
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
Total Hydro		680	678	629	680	646	533	609	611	544	597	673	621	590	599	436	296	287	417	413	407	431	402	517	520	533	521	575	533	523	544	557	558	559	554	623	559	580	558	580	661	681	681	657	722	658	648	647	646	646			
Total Distillate		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	0	0		
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	8	11	20	12	14	26	16	19	14	18	22	10	5	9	2	3	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	19	22	20	28	27	27	29	6	14	1	0	4	28	7	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	13	17	22	27	29	31	34	31	35	34	29	15	33	8	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	9	22	36	24	43	33	26	19	45	44	42	39	37	18	30	4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	17	22	27	24	33	17	21	33	12	14	14	33	36	36	26	20	9	18	11	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8	14	12	24	21	22	28	24	30	28	26	28	27	24	22	19	14	12	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	13	22	26	33	38	46	34	50	49	18	50	50	10	14	31	10	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	3	12	21	23	27	29	30	24	10	11	32	14	11	9	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	15	22	31	39	46	24	36	41	47	50	44	40	13	40	24	25	20	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	12	35	52	63	71	78	78	83	88	91	92	24	31	31	34	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	11	20	22	32	35	38	43	37	31	43	10	15	30	32	16	4	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	12	17	21	22	29	31	29	31	43	11	15	15	4	8	17	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	18	38	53	67	79	89	96	100	49	48	100	51	28	2	13	30	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KRLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	10	15	19	23	25	28	30	22	17	28	5	8	1	6	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	5	14	27	30	30	29	29	29	24	23	7	2	1	3	5	12	30	21	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	17	24	32	31	19	29	49	51	51	51	49	46	43	38	33	27	20	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	16	42	64	79	89	62	60	82	78	94	93	95	95	95	93	92	90	88	83	76	55	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	23	38	54	58	43	59	101	106	106	106	106	105	101	101	91	81	65	50	35	14	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0
SNLS	LSS4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	18	26	33	40	45	49	38	5																												

Daily MW Generation on Sunday

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 Gen		14759	14450	14094	13947	13639	13351	13140	12960	12785	12629	12572	12507	12565	12656	12253	11804	11730	11934	12103	12456	12747	12992	13236	13455	13466	13431	13591	13962	14088	14319	14404	14632	14744	14845	14548	14487	14446	14577	15274	16065	16092	16174	15980	15852	15678	15386	15145	14959	
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	0		
TIE-HVDC		-28	-30	-30	-30	-31	-31	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-29	-29	-29	-31	-31	-31	-31	-29	-31	-31	-29	-28	-31	-28	-31	-30	-28	-31	-28	-28	-29	-31	-29	-29	-29	-29		
TIE-PLTG		-15	-9	-6	-21	-8	-22	-28	-37	-16	-30	-20	-4	-28	-2	-8	7	9	-19	-25	-7	-23	-8	41	36	51	14	42	86	23	25	14	35	-17	-25	-31	-2	-13	-15	20	4	7	-23	-8	-13	-29	-27	-27	4	
Interconnection		-43	-39	-37	-51	-39	-53	-57	-66	-46	-60	-50	-33	-57	-31	-37	-22	-20	-48	-55	-37	-53	-38	12	6	22	-17	11	56	-8	-3	-17	4	-45	-53	-62	-31	-43	-46	-8	-27	-21	-51	-36	-44	-58	-56	-56	-25	
System Total		14802	14489	14131	13998	13678	13404	13197	13026	12831	12689	12622	12540	12622	12687	12290	11826	11750	11982	12158	12493	12800	13030	13224	13449	13444	13448	13580	13906	14096	14322	14421	14628	14789	14898	14610	14518	14489	14623	15282	16092	16113	16225	16016	15896	15736	15442	15201	14984	
SRev ST-Coal		138	215	355	377	372	377	380	386	276	286	307	311	273	275	294	456	453	521	522	367	341	325	328	304	296	297	492	448	417	387	377	354	558	553	568	564	548	621	420	307	324	263	209	184	212	313	364	374	
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		1463	1685	1842	2020	2304	2348	2613	2801	2816	2971	3074	3092	2989	2899	3130	3220	3316	3206	3210	3247	3182	3047	3121	2945	3006	2941	2899	2506	2383	2080	2004	1813	1602	1420	1718	1606	1573	1485	990	496	538	553	825	1052	1193	1374	1379	1514	
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 Co-Gen		-1	-1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	1	0	0	1	0	0	-1	1	-2	0	1	1	0	0	0	
Syncon		651	739	739	739	739	890	890	802	890	890	764	613	739	739	991	1092	1092	890	890	890	890	890	890	890	890	651	890	739	890	802	890	890	890	890	890	764	890	739	802	739	890	739	739	890	764	890	890	890	890
Hydro		281	282	251	200	234	121	45	44	110	57	107	310	215	206	117	156	165	237	241	247	223	252	137	134	273	133	230	121	132	110	97	96	95	100	157	95	225	97	225	68	199	199	72	133	71	81	82	83	
S.Reserve Total		2706	3007	3274	3423	3736	3823	4015	4207	4179	4291	4339	4413	4304	4206	4619	5011	5117	4941	4951	4838	4723	4601	4563	4361	4400	4349	4447	4054	3908	3553	3455	3241	3232	3050	3295	3242	3172	3180	2461	1847	1888	1839	2083	2221	2454	2745	2802	2948	