

Daily System Generation Summary on Saturday

Saturday, September 5, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,322 MW
Distillate	0 MW
Total TNB	2,322 MW
Total IPP	16,048 MW
Total Co-Gen	0 MW
Total System	20,839 MW

Generation Mix

Type	MWh	Percentage
Hydro	25,351	7.66 %
Gas	31,385	9.48 %
Total TNB	56,736	17.14 %
ST-Coal	212,315	64.16 %
LSS	2,515	0.76 %
Gas	59,721	18.05 %
Total IPP	274,551	82.97 %
Co-Gen	379	0.11 %
Total Co-Gen	379	0.11 %
Total Generation	331,666	100.23 %
PLTG	22	0.01 %
HVDC	724	0.22 %
Interconnection	746	0.23 %
Net Energy	330,920	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	16,701 MW
TNB Generation	3,512 MW
IPP Generation	11,954 MW
Spinning Reserve	1,155 MW
Maximum Demand	15,522 MW
Net Energy	330,920 MWH
Load Factor	88.83 %

Fuel Cost

Total Cost:	46,320,932.54 RM
Cost per Unit	13.97 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	389
Hydro	343
Syncon	471
Thermal	292
Total	1,495

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	28
SRDG	4
TJGS	151
Total TNB	182
CBPS	48
NPRI	146
PGLA	81
PLPS	7
SKSP	25
Total IPP	307
Total Gas	490

Total Gas Required 490

Alternate Fuel Usage

Station	(mmcsfd)
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	13915	13274	12878	12566	12266	12120	12052	11999	11950	13081	13930	14380	14321	14080	14537	14644	14790	14528	14127	14504	15522	15303	15053	14762

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 5, 2020 2:00:54 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

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	U001	690	694	692	693	691	692	691	694	692	690	693	694	692	693	693	690	689	689	693	695	692	692	693	691	688	692	693	692	693	691	694	693	691	693	692	689	693	691	693	692	693	693							
JMAH	U002	694	699	693	694	692	694	688	695	693	692	693	694	693	695	695	694	695	696	694	693	692	694	694	693	692	694	694	693	692	694	695	694	693	696	695	693	696	694	693	693	694	694	693	695	694	695			
JMHE	U001	898	624	394	311	307	169	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
JMHE	U002	897	900	853	852	847	779	776	782	777	781	781	783	781	779	781	777	781	937	930	932	929	930	928	923	931	929	932	931	931	933	931	932	933	930	932	932	967	968	972	970	964	969	969	967	967				
JMJG	U001	671	672	672	673	674	670	611	667	601	502	489	553	648	661	666	683	667	670	671	591	585	587	671	667	673	672	670	671	671	672	672	671	670	615	593	596	600	590	548	554	512	570	535	557	525	560			
JMJG	U002	671	669	670	668	617	594	629	677	678	678	673	679	671	679	678	675	667	671	672	673	672	667	671	668	672	670	673	601	604	671	675	672	669	672	672	673	677	652	672	665	677	673	663	672	665	677	674	672	
JMJG	U003	666	663	662	667	667	619	590	593	604	590	590	621	682	672	672	671	672	673	673	676	677	601	656	665	671	672	667	668	669	668	668	667	671	671	666	669	671	666	671	683	657	668	677	668	664	662	676	662	
JMJG	U004	906	904	854	854	856	804	785	790	790	788	787	791	790	791	788	787	786	788	786	810	898	928	929	932	927	931	930	930	932	930	930	931	928	928	927	927	929	930	926	975	972	972	972	973	972	973	974	973	
PKLG	U003	206	126	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PKLG	U004	216	207	205	205	204	204	204	204	204	205	205	205	205	205	204	207	205	204	207	139	156	158	158	154	160	159	161	158	158	158	159	159	159	159	158	158	158	208	210	206	204	204	203	205	204	203			
PKLG	U005	359	359	359	360	359	359	358	358	358	360	358	358	358	359	359	359	358	358	358	359	275	258	268	261	263	281	282	235	192	159	160	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PKLG	U006	360	360	357	358	358	359	360	358	357	359	360	357	360	360	360	357	357	356	358	356	295	269	269	269	268	269	269	269	267	270	269	272	267	270	267	270	267	272	267	323	360	358	359	360	357	362	358	359	
TBIN	U001	691	690	690	690	690	689	689	684	689	690	690	690	692	689	691	690	686	690	689	691	689	688	691	688	691	689	686	690	687	686	689	694	690	689	689	688	690	691	691	689	689	693	690	689	689	689	691		
TBIN	U002	692	695	693	695	694	692	692	691	694	693	696	692	693	692	694	692	693	694	693	694	693	692	691	695	693	694	691	692	690	690	694	690	693	695	693	693	693	693	694	691	695	691	693	693	693	697	693	694	
TBIN	U003	689	690	690	692	690	690	690	689	691	690	691	691	691	689	691	691	690	690	689	689	690	690	690	690	690	690	687	689	690	692	689	691	690	690	690	690	691	690	690	689	693	690	691	690	691	690	689	690	
TBIN	U004	904	904	904	904	853	796	782	782	782	783	782	783	783	782	784	782	784	783	809	896	934	933	932	933	933	936	931	932	933	932	933	932	933	932	933	931	932	932	971	972	972	973	971	973	973	973	973		
Total ST-Coal		10210	9856	9423	9316	9199	8810	8553	8664	8610	8501	8487	8589	8741	8744	8756	8765	8727	8743	8678	8723	8834	8786	8945	8942	8952	8973	8953	8854	8808	8846	8851	8854	8691	8695	8682	8636	8620	8597	8620	8839	8825	8831	8790	8841	8795	8841	8809	8832	
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			
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			
CBPS	BLK2	213	214	218	218	220	228	225	219	224	221	220	222	222	221	211	218	219	226	256	308	357	364	364	364	354	356	350	361	362	356	356	356	359	355	358	358	357	357	364	357	364	357	357	358	357	356	359	359	
GLGR	GT02	95	96	96	96	95	95	96	94	95	95	96	95	95	95	95	95	95	95	95	95	95	95	95	95	94	95	95	96	95	95	95	95	95	95	95	95	94	96	95	95	95	95	95	95	95	95	95		
GLGR	ST1C	40	40	40	40	40	39	41	40	40	40	40	40	40	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	39	40	40	40	40	40	40	40	40	40		
NPRI	BLK1	430	442	506	474	459	531	424	428	465	499	477	445	335	445	318	359	515	511	512	440	509	490	476	475	499	502	490	509	509	510	510	509	509	508	509	508	509	502	514	506	504	500	505	503	500	503	504		
NPRI	BLK2	417	418	522	521	518	525	526	523	524	523	524	516	367	311	307	314	318	451	513	511	511	512	509	508	499	503	493	512	512	512	512	511	512	510	508	514	508	510	512	503	517	508	506	503	509	506	503	506	
PCGP	PGRG	590	592	602	599	600	607	607	600	607	603	602	602	603	595	490	199	181	606	603	600	601	603	600	598	584	591	574	602	603	603	604	603	604	602	602	601	598	600	602	593	609	597	595	589	597	595	590	594	
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136	142	192	158	161	158	167	165	192	177	209	211	203	165	174	163	167	183	197	193	190	177	185	186	203	202	181		
PGLA	GT12	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	197	249	230	226	222	190	191	188	198	197	226	206	242	244	236	195	204	193	197	215	228	224	221	207	215	216	235	233	211	
PGLA	ST10	91	91	92	91	92	92	93	91	92	93	93	93	91	93	91	91	91	93	91	107	108	102	183	228	200	203	203	203	203	224	211	224	238	233	210	205	203	208	237	220	225	220	223	218	232	229	215		
PLPS	GT13	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	34	30	32	124	124	124	125	124	124	125	125		
PLPS	ST18	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	57	58	59	58	59	58	58	58		
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	86	148	218	326	303	330	330	342	339	331	300	319	226	314	323	325	307	284	280	287	282	316	279	219
SPGP	BLK1	8	0	0	0	0	0	0	109	0	0	0	0	0	71	245	316	314	314	315	314	314	296	305	305	304	304	305	314	314	265	265	265	256	335	497	499	495	496	495	495	494	495	496	494	495	403	403	384	
SPGP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0</											

Daily MW Generation on Saturday

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
CEND	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY04	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	64	-1	-1	-1	-1	-1	-1	-1	109	121	121	120	62	109	-1	-1	-1	-1
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	121	122	122	62	110	0	0	0	0
KNRG	HY01	22	22	21	21	22	22	22	22	22	22	22	22	22	22	21	22	22	21	36	36	36	36	36	36
KNRG	HY02	22	22	22	22	22	23	23	22	23	22	22	22	22	23	23	22	22	22	38	37	37	37	37	37
KNRG	HY03	0	24	37	37	37	22	23	22	22	22	22	22	22	21	22	22	22	21	36	36	36	36	36	36
KNYR	HY01	98	99	100	100	100	101	101	99	100	101	100	100	100	101	98	97	96	100	100	100	100	101	100	100
KNYR	HY02	98	99	99	99	99	99	99	99	99	99	99	99	99	99	97	97	99	99	99	99	99	99	99	98
KNYR	HY03	97	98	99	99	99	101	101	97	100	99	99	98	98	99	94	96	58	100	99	99	99	99	99	95
KNYR	HY04	98	99	101	101	101	100	101	99	101	100	101	100	101	101	101	99	97	97	100	101	101	101	99	97
LPIA	HY01	18	18	18	18	18	18	18	18	18	19	18	18	18	18	21	20	20	20	20	21	20	20	20	20
LPIA	HY02	18	18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	20	20
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	5	5	5	5	5
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1
PGAU	HY03	-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	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
SIHY	HY02	50	50	50	50	50	50	50	50	50	50	50	50	50	0	0	0	0	0	0	0	31	31	31	31
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31
SYPS	HY01	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	HY02	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	HY03	25	25	25	25	25	25	25	25	25	25	25	25	3	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	25	25	25	25	25	25	25	25	25	25	25	25	17	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	62	62	83	83	84	83	83	83	83	83
TMGR	HY02	63	64	33	33	33	33	33	33	33	33	33	33	31	33	33	33	64	64	88	88	88	88	88	88
TMGR	HY03	0	0	40	32	-1	-1	32	32	32	32	-1	-1	-1	-1	30	30	30	30	60	84	84	84	83	83
TMGR	HY04	86	86	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	61	85	85	85	85	85	85	85	85
UJLI	HY01	-1	-1	-1	-1	-1	82	147	89	-1	-1	-1	-1	-1	-1	-1	88	91	91	90	-1	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	91	91	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	94	95	108	143	91
UPIA	HY01	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	5	4	5	4	5	5
UPIA	HY02	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		801	830	769	852	809	789	942	807	724	722	725	687	710	690	609	634	537	629	999	1162	1259	1293	1309	1143
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	11	12	19	13	20	24	26
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	13	13	16	19	22	26	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	9	11	12	20	28	27	35	31
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	14	16	30	38	38	30	41
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	6	17	12	17	13	12	14
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	14	32	26	38	35	45	40
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	14	19	21	32	27	41	35
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	11	15	18	19	21	32	25	41
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	13	21	19	25	28	33	38
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	15	20	25	35	50	46	44
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	9	14	25	20	23	22	41
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	33	74	119	167	221	251	290	328	374

Daily MW Generation on Saturday

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		
PCUF	CUFG	3	4	5	3	3	4	4	4	5	2	4	3	4	3	4	3	4	2	4	3	4	2	4	3	3	3	4	3	4	3	3	4	4	3	3	3	4	4	2	46	46	48	46	47	46	3	4	3	
PCUF	CUFK	3	4	6	5	3	2	3	3	3	2	3	3	4	3	3	2	3	2	2	3	3	4	3	3	4	2	3	4	3	3	4	4	4	1	3	3	3	2	2	35	34	35	35	34	35	3	3	3	
Total Co-Gen		6	8	11	8	6	6	7	7	8	4	7	6	8	6	7	5	7	4	6	6	7	6	7	6	7	5	7	7	7	7	6	7	8	8	4	6	6	7	6	4	81	80	83	81	81	81	6	7	6
Total Gen		13939	13449	13297	13099	12903	12689	12589	12445	12290	12162	12144	12160	12076	12176	12021	11912	11972	12703	13106	13531	13953	14180	14405	14466	14346	14166	14102	14307	14561	14779	14668	14770	14815	14825	14551	14359	14151	14133	14527	15462	15546	15509	15326	15313	15078	14882	14786	14530	
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		31	31	29	29	31	29	29	29	30	31	31	29	31	31	29	29	29	31	31	31	31	31	31	31	31	29	31	31	31	30	30	31	31	29	29	30	30	28	31	29	29	30	31	31	30	30			
TIE-PLTG		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			
Interconnection		32	32	30	30	32	30	30	30	31	32	32	30	32	32	30	29	30	32	32	30	30	32	32	32	32	32	30	32	32	32	32	31	31	32	32	30	30	31	31	31	29	32	30	30	31	32	32	31	31
System Total		13915	13425	13274	13076	12878	12666	12566	12422	12266	12138	12120	12138	12052	12151	11999	11891	11950	12679	13081	13508	13930	14155	14380	14441	14321	14141	14080	14283	14537	14755	14644	14746	14790	14800	14528	14336	14127	14110	14504	15441	15522	15486	15303	15289	15053	14857	14762	14506	
SRev ST-Coal		458	567	464	409	443	334	422	279	328	343	353	256	106	375	369	358	391	382	429	358	381	274	295	298	288	307	327	366	373	314	309	286	289	285	298	338	332	293	270	151	185	179	220	169	195	149	181	158	
SRev CCGT-Gas		922	864	525	696	730	535	532	761	671	684	694	741	1002	954	1215	1433	1265	680	630	460	301	302	430	287	599	635	696	562	343	237	281	183	168	201	339	373	576	569	420	316	249	316	253	318	243	299	457		
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 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	
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	103	71	70	37	0	0	0	0	0
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syncon		889	889	976	789	830	877	663	789	976	976	1064	913	1064	913	825	976	976	676	489	489	489	489	525	525	802	802	802	615	489	489	338	302	302	489	676	676	489	0	0	0	0	338	763	976	976	1064			
Hydro		138	149	164	268	246	266	303	312	208	209	206	156	284	154	335	348	294	202	258	330	233	199	333	313	227	70	73	69	160	249	404	522	327	462	465	372	372	331	449	586	658	684	724	589	448	376	385	273	
S.Reserve Total		2407	2469	2129	2162	2249	2012	1920	2141	2183	2212	2229	2217	2305	2547	2832	2964	2926	2240	1993	1637	1404	1264	1547	1423	1639	1814	1898	1799	1491	1289	1483	1329	1086	1250	1591	1759	1956	1869	1628	1156	1163	1249	1352	1349	1724	1744	1841	1952	