

Daily System Generation Summary on Saturday

Saturday, July 3, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,233 MW
Distillate	0 MW
Total TNB	2,233 MW
Total IPP	17,464 MW
Total Co-Gen	0 MW
Total System	23,551 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,020	3.66 %
Gas	65,703	21.79 %
Total TNB	76,723	25.45 %
ST-Coal	174,070	57.74 %
LSS	2,447	0.81 %
Gas	48,149	15.97 %
Total IPP	224,666	74.53 %
Co-Gen	157	0.05 %
Total Co-Gen	157	0.05 %
Total Generation	301,546	100.03 %
PLTG	-634	-0.21 %
HVDC	720	0.24 %
Interconnection	86	0.03 %
Net Energy	301,460	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:	00:00:00 Hour
Total Set On Bus	15,724 MW
TNB Generation	3,379 MW
IPP Generation	10,623 MW
Spinning Reserve	1,715 MW
Maximum Demand	14,019 MW
Net Energy	301,460 MWH
Load Factor	89.60 %

Fuel Cost

Total Cost:	45,328,283.81 RM
Cost per Unit	15.03 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	107
Hydro	188
Syncon	762
Thermal	684
Total	1,741

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	2
TJGS	210
Total TNB	212
CBPS	55
NPRI	155
Total IPP	209
Total Gas	421
Total Gas Required	421

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	14019	13435	12862	12435	12067	11744	11621	11298	10908	11447	11859	12159	12282	12331	12647	12760	12814	12646	12419	12868	13817	13780	13635	13543

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, August 5, 2021 10:38:34 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	691	694	691	425	309	206	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMAH	U002	698	693	698	696	695	694	694	697	695	606	503	349	354	355	306	300	304	304	303	306	386	405	405	402
JMHE	U001	908	909	854	848	848	849	782	781	782	779	778	781	782	782	779	778	783	783	778	819	819	820	819	819
JMHE	U002	911	908	851	853	846	847	779	784	775	779	780	780	780	779	778	780	779	778	782	781	777	783	780	780
JMJG	U001	670	668	671	673	672	678	669	672	673	668	673	675	672	671	676	672	639	671	679	678	677	678	680	674
JMJG	U002	673	675	675	670	676	673	672	673	671	672	675	672	674	673	672	673	643	666	674	682	671	670	672	675
JMJG	U003	671	667	658	668	668	663	662	667	667	669	667	664	671	668	661	682	642	663	664	670	666	660	667	661
JMJG	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMJG	U005	889	892	892	892	879	797	801	801	798	800	803	800	800	800	800	796	799	801	799	801	801	799	803	800
PKLG	U003	160	160	159	159	159	159	158	160	161	160	160	160	160	159	159	158	159	158	159	158	159	158	159	159
PKLG	U006	449	446	450	447	449	449	447	449	444	446	449	450	411	339	287	268	268	269	267	269	305	389	443	449
TBIN	U001	500	451	400	403	401	401	401	326	283	211	213	213	212	211	212	211	212	212	212	211	212	211	211	212
TBIN	U002	501	451	401	404	404	404	403	311	273	211	213	213	213	213	212	212	212	213	213	212	212	214	212	213
TBIN	U004	913	849	855	856	855	852	851	852	850	853	852	854	854	853	853	853	853	854	855	853	853	853	852	852
Total ST-Coal		8634	8463	8255	7994	7861	7672	7434	7172	7076	6855	6766	6611	6583	6503	6400	6389	6291	6371	6386	6406	6500	6593	6670	6657
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
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
CBPS	BLK2	356	363	349	356	349	356	357	357	355	362	355	362	359	362	362	362	362	355	362	362	362	362	362	362
GLGR	GT01	96	96	94	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLGR	ST1C	41	40	41	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPRI	BLK1	521	523	515	524	515	517	520	527	520	529	520	528	524	527	528	525	530	525	518	524	518	523	525	524
NPRI	BLK2	524	525	517	527	518	520	524	530	521	532	522	532	528	530	532	529	515	527	528	523	528	518	527	526
PCGP	PGRG	588	593	583	594	583	587	592	598	589	601	588	602	595	599	603	597	603	602	593	602	594	600	603	603
SPGP	BLK1	718	720	718	718	717	719	718	717	718	717	719	719	720	719	720	721	718	720	719	717	719	717	719	721
SPGP	BLK2	717	718	718	718	718	719	717	718	717	718	717	718	718	717	719	719	718	719	717	718	718	717	719	717
TJGS	GT1A	223	223	217	224	217	221	226	226	223	225	221	224	224	224	131	138	196	227	225	226	226	228	225	224
TJGS	GT1B	212	213	208	217	208	211	217	220	210	218	216	215	219	217	216	123	129	189	219	218	216	216	217	216
TJGS	ST1C	244	244	236	243	240	243	244	244	243	243	243	243	184	169	215	241	244	244	244	243	243	243	244	244
TJGS	GT2A	216	216	216	216	216	216	216	216	216	216	216	216	170	113	105	106	117	216	216	216	216	216	216	216
TJGS	GT2B	211	211	211	211	211	211	211	211	213	213	213	213	213	213	166	111	103	103	114	212	211	211	210	
TJGS	ST2C	255	255	255	255	255	255	255	255	255	255	255	255	231	198	193	193	193	253	255	255	255	255	255	255
Total CCGT-Gas		4922	4940	4878	4886	4747	4774	4799	4818	4782	4828	4786	4826	4814	4823	4711	4312	4287	4454	4565	4796	4820	4794	4818	4817
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	0
BSIA	HY02	23	23	23	23	12	12	12	12	12	13	12	13	13	13	13	13	13	13	13	13	12	13	13	13
CEND	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
CEND	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0	0	0	0	0	0	0	0	0
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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
KNRG	HY03	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNYR	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
KNYR	HY02	58	59	56	56	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
KNYR	HY04	58	62	58	58	57	57	57	74	57	71	58	57	57	61	60	58	96	97	100	60	99	60	59	98
LPIA	HY01	23	23	25	25	25	25	25	25	25	25	25	25	25	20	20	20	19	19	19	19	19	19	19	19
LPIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	4	17	17	16	16	16	16	16	16	16	16	16
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

Daily MW Generation on Saturday

		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	
PGAU	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	
SIHY	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	48	48	
SIHY	HY02		50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	30	30	30	30	50	50	
SIHY	HY03		49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	30	30	30	50	50	50	
SYPS	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	
SYPS	HY02		25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	
SYPS	HY03		25	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	17	17	17	17	25	25	25	
SYPS	HY04		25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25		
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	
TMGR	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	
TMGR	HY04		39	41	38	41	38	39	40	42	39	42	41	41	44	41	41	43	46	41	49	41	41	76	42	50	
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	
UJLI	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	182	96	96	96	96	94	89	149	
UPIA	HY01		5	6	6	5	6	6	5	6	5	5	6	5	5	5	6	6	6	6	6	6	6	6	6	6	
UPIA	HY02		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro			446	280	272	274	271	205	205	225	205	221	205	209	207	231	217	219	258	261	282	237	280	233	262	337	339
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
BDLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	6	6	8	23	22	16	15	12	24	
BKLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	16	19	15	21	25	30	30	30	27	
BSLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	15	14	15	14	29	23	6	24	17	
CHLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	8	9	12	18	29	28	35	40	32	4	5	
GBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	6	8	11	24	25	29	33	27	40	38	40	
GELS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	11	15	18	20	23	25	25	9	7	
GNLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	7	8	15	23	15	16	34	25	46	17	15	
JSLs	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	17	24	24	22	35	40	9	9	26	
KKLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	6	14	9	18	20	32	34	15	15	31	41	
KRLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	20	15	30	29	10	10	5	4	13	
MCLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	4	12	18	24	32	34	17	32	28	48	46	
SPLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	16	19	17	32	44	43	20	47	52	
SSLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	6	9	21	18	19	37	25	36	
STLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	11	15	19	22	24	22	15	15	29	
TBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	8	16	25	29	23	30	30	29	30	30	10	
Total LSS			0	0	0	0	0	0	0	0	0	0	0	0	13	46	108	185	257	274	358	404	411	383	338	398	
PCUF	CUFG		3	4	3	4	3	3	2	3	3	3	3	3	3	4	3	4	3	3	2	2	4	4	4	3	
PCUF	CUFK		4	3	3	4	4	2	4	4	3	4	3	3	3	3	2	3	3	3	3	3	3	4	4	3	
Total Co-Gen			7	7	6	8	7	5	6	7	6	6	7	6	6	6	7	6	6	6	5	7	7	8	6	6	7
Total Gen			14009	13690	13411	13162	12886	12656	12444	12222	12069	11911	11763	11652	11611	11563	11334	10939	10889	11200	11424	11702	11880	11983	12161	12229	
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	
TIE-HVDC			29	31	31	31	29	29	29	29	30	30	30	31	31	30	30	30	30	30	29	29	31	31	29	29	
TIE-PLTG			-36	-42	-52	-31	-2	-28	-17	-40	-25	-44	-8	-18	-36	-1	9	-36	-46	-44	-51	-18	-7	-50	-25	-70	
Interconnection			-7	-11	-21	-1	27	1	12	-11	5	-13	22	12	-6	30	40	-6	-16	-14	-20	13	24	-21	5	-40	
System Total			14019	13704	13435	13166	12862	12658	12435	12236	12067	11927	11744	11643	11621	11537	11298	10949	10908	11217	11447	11692	11859	12007	12159	12272	
SRev ST-Coal			500	520	536	597	605	685	698	613	620	688	676	680	715	728	732	717	817	742	723	711	728	731	678	684	
SRev CCGT-Gas			131	113	175	167	151	124	99	80	116	70	112	72	84	75	187	586	611	444	333	102	78	104	80	81	
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	
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	
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	

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		
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	0
Syncon		926	926	926	926	926	926	926	926	926	926	926	926	926	775	926	926	926	926	926	926	926	926	926	926	926	926	926	739	739	588	739	739	739	739	739	739	739	739	739	638	451	451	451	451	638	638	638	638	
Hydro		163	154	162	160	163	129	129	109	129	113	129	125	126	253	143	141	103	100	104	149	95	142	163	88	186	107	164	71	51	209	377	209	234	243	276	253	275	230	239	146	321	333	226	407	143	123	199	259	
S.Reserve Total		1720	1713	1799	1850	1845	1864	1852	1728	1791	1797	1843	1803	1851	1831	1988	2370	2457	2212	2086	1888	1827	1903	1847	1779	1861	1787	2057	1827	1568	1692	1784	1758	1781	1775	2016	2258	2270	2217	1880	1509	1450	1478	1398	1551	1560	1536	1623	1655	