

Daily System Generation Summary on Thursday

Thursday, March 25, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,064 MW
Distillate	0 MW
Total TNB	2,064 MW
Total IPP	17,795 MW
Total Co-Gen	0 MW
Total System	23,838 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,235	3.89 %
Gas	62,954	17.18 %
Total TNB	77,189	21.07 %
ST-Coal	234,932	64.12 %
LSS	2,446	0.67 %
Gas	51,759	14.13 %
Total IPP	289,137	78.92 %
Co-Gen	171	0.05 %
Total Co-Gen	171	0.05 %
Total Generation	366,497	100.03 %
PLTG	-606	-0.17 %
HVDC	724	0.20 %
Interconnection	118	0.03 %
Net Energy	366,379	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:	15:30:00 Hour
Total Set On Bus	18,671 MW
TNB Generation	4,381 MW
IPP Generation	13,064 MW
Spinning Reserve	1,218 MW
Maximum Demand	17,440 MW
Net Energy	366,379 MWH
Load Factor	87.53 %

Fuel Cost

Total Cost:	45,346,324.18 RM
Cost per Unit	12.36 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	315
Hydro	354
Syncon	560
Thermal	248
Total	1,477

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	53
SRDG	3
TJGS	190
Total TNB	246
CBPS	49
NPRI	146
PGLA	50
YPKA	29
Total IPP	273
Total Gas	519
Total Gas Required	519

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	14666	13970	13480	13169	12889	12804	12941	13384	13748	15365	16241	16656	16704	16321	17119	17347	17154	16691	15702	15591	16562	16338	15774	15312

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:53:51 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	693	689	692	691	692	692	692	692	652	601	600	602	652	691	691	691	693	692	688	694	691	691	692	693	692	691	692	694	691	691	692	694	691	691	692	694													
JMAH	U002	696	695	697	695	695	697	694	694	654	631	603	605	656	695	696	696	696	695	697	693	695	695	694	697	694	696	691	696	697	693	696	693	692	698	692	699	695	696	697	696	695								
JMHE	U001	751	746	748	750	750	750	748	747	750	750	753	750	751	748	753	752	746	750	750	752	752	750	750	748	751	749	754	749	754	749	754	750	747	754	751	749	753	751	745	753									
JMHE	U002	979	896	897	900	898	905	829	827	828	830	830	832	833	831	830	832	830	882	980	980	980	983	981	981	980	980	978	982	980	986	982	979	976	980	975	983	983	978	980	979	977	981	976	981	981	981	975	981	
JMJG	U001	597	595	597	596	594	566	567	568	568	563	589	598	597	597	598	596	612	645	651	648	668	672	668	672	668	672	674	667	672	673	668	671	674	618	616	618	618	622	617	620	621	618	617	618	598	596	598	598	
JMJG	U002	599	599	597	600	601	568	569	570	569	569	593	591	596	599	598	598	599	601	596	663	669	673	673	672	675	671	673	673	677	676	671	675	673	668	667	671	626	629	627	629	627	631	632	626	614	599	599	598	
JMJG	U003	596	597	598	593	593	568	566	567	568	568	590	599	596	591	596	595	597	597	593	596	629	677	672	677	677	678	643	645	667	669	668	673	671	678	668	674	668	629	631	625	623	628	624	629	610	590	596	595	
JMJG	U004	936	904	903	838	834	837	837	835	835	836	835	835	834	834	836	835	834	844	900	957	972	972	972	972	974	972	974	977	974	976	975	976	975	973	979	976	974	974	977	974	973	975	974	973	975	972	972		
JMJG	U005	850	849	848	840	827	832	829	830	833	830	834	833	834	835	831	831	832	832	830	836	835	830	832	834	845	892	863	851	848	894	890	895	891	892	889	894	889	892	889	894	892	892	893	895	890	894	892	889	891
PKLG	U003	278	277	278	280	281	280	273	199	150	153	153	153	152	152	209	208	209	207	207	206	234	276	278	280	277	277	279	275	274	278	277	277	278	277	278	279	281	279	281	280	278	279	281	280	280	283	280	281	
PKLG	U004	277	278	278	281	276	276	277	198	156	156	154	155	158	148	0	0	0	0	0	0	0	0	0	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	U006	449	445	448	446	447	445	448	449	449	446	444	446	449	451	449	448	445	446	449	453	449	449	445	447	450	452	449	448	449	449	446	446	449	450	443	444	446	449	451	455	450	446	446	450	449	445	447	446	
TBIN	U001	690	690	690	690	691	690	690	688	689	690	690	691	689	691	691	689	689	691	692	689	687	690	691	689	689	689	690	690	690	693	701	689	690	690	687	689	690	688	687	689	689	689	693	686	688	690	692		
TBIN	U002	691	691	689	690	693	692	688	687	693	687	688	694	692	683	691	688	692	691	690	692	693	690	690	691	690	693	690	689	687	691	690	691	690	692	690	688	690	692	687	689	693	691	687	692	690	691	689	691	
TBIN	U004	969	904	903	836	832	831	832	833	833	834	831	831	834	830	833	835	849	937	984	984	982	985	982	983	980	982	984	982	984	982	983	982	984	982	981	983	984	984	984	982	983	984	983	984	983	983	983		
Total ST-Coal		10051	9855	9863	9726	9704	9629	9539	9383	9227	9143	9187	9218	9319	9383	9294	9295	9315	9416	9659	9844	9940	10029	10022	10039	10038	10096	10027	10022	10038	10100	10081	10100	10081	10040	10011	10040	9983	9955	9948	9951	9946	9949	9947	9954	9899	9862	9851	9870	
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		
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	222	220	224	228	221	219	220	211	221	223	223	222	223	223	223	223	224	269	359	358	358	365	358	364	349	357	364	363	357	357	356	359	357	362	355	362	356	362	358	351	359	360	349	356	344	357	355	290	
GLGR	GT01	68	67	68	68	68	69	69	70	68	69	69	67	68	68	68	69	68	68	68	68	87	105	105	104	104	105	104	104	104	104	105	104	105	104	105	104	105	106	105	104	103	105	104	105	104	104	106		
GLGR	GT02	67	68	68	68	68	68	68	68	68	68	68	68	67	68	68	68	68	68	68	68	87	105	105	105	104	104	104	104	104	105	104	105	104	105	104	105	104	105	106	105	104	104	105	104	104	105	104	105	
GLGR	ST1C	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	79	93	94	94	94	94	94	94	94	95	95	94	94	94	94	94	94	93	93	93	93	93	93	93	93	93	93		
NPRI	BLK1	517	511	440	398	310	311	310	310	309	311	310	311	349	398	397	395	398	482	529	527	525	532	524	529	514	520	525	528	518	529	522	521	517	523	519	526	525	527	530	518	522	527	511	521	509	528	518	515	
NPRI	BLK2	520	514	443	401	320	320	320	307	320	323	319	317	400	400	400	397	400	491	533	531	530	541	529	533	519	525	530	532	524	531	526	530	520	526	524	530	531	532	533	522	526	531	515	527	512	533	524	520	
PCGP	PGRG	261	261	261	265	262	261	261	262	264	267	262	261	261	264	262	261	260	581	603	601	600	615	599	603	583	591	601	601	592	603	595	602	585	593	591	598	595	602	603	586	590	602	580	591	574	597	591	584	
PGLA	GT12	167	164	166	168	168	167	168	163	168	169	168	167	168	168	167	167	162	168	167	230	228	165	226	220	160	162	162	165	227	225	224	225	162	159	162	160	162	163	223	232	234	154	159	154	159	158	156		
PGLA	ST10	92	92	91	92	92	92	92	90	92	91	91	91	91	91	91	91	90	91	91	113	112	92	102	112	89	90	90	91	110	112	112	112	89	89	88	88	89	89	113	113	112	88	88	88	89	89	88		
SPGP	BLK1	558	363	360	360	360	358	362	358	361	360	361	361	359	452	361	359	719	716	722	707	709	706	707	704	705	707	707	705	707	705	707	705	706	707	706	708	708	706	705	709	702	704	702	705	705	705	705	705	
SPGP	BLK2	649	647	550	361	361	362	363	364	362	361	363	363	447	548	449	720	720	717	720	718	717	716	716	716	705	706	707	704	704	701	708	704	707	706	705	705	708	707	705	706	705	702	703	702	703	702	704	701	
TJGS	GT1A	136	136	137	138	137	137	136	131	136	136	136	136	136	136	137	138	134	175	168	226	224	226	231	224	216	221	224	224	227	226	223	226	221	225	224	228	225	180	182	217	223	226	215	199	185	199	152	126	
TJGS	GT1B	128	128	127	128	125	127	130	118	127	129	126	129	123	125	131	129	126	167	157	216	215	220	216	216	208	211	216	213	216	216	219	216	215	217	214	217	220	173	174	208	217	217	204	190					

Daily MW Generation on Thursday

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	
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	
HTRG	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	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	23	23	22	22	22	22	35	35	21	21	20	21	21	21
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	37	21	21	20	21	20	21
KNRG	HY03	22	23	23	24	23	23	23	22	23	24	23	23	23	22	22	22	23	35	35	33	22	22	22	22	36
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	100	97	95	59	101	99	96	98
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	101	97	101	100	101	101	-1	101	98	-1	-1	62
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	99	96	99	98	100	101	98	100	96	95	-1	60
KNYR	HY04	63	77	61	100	89	80	91	68	98	98	69	81	59	97	92	98	101	97	101	100	101	103	99	101	98
LPIA	HY01	18	18	17	17	17	17	17	17	17	17	17	17	15	15	15	15	15	15	15	15	15	15	15	15	14
LPIA	HY02	18	18	17	17	17	17	17	17	16	16	16	16	16	15	15	15	16	16	16	16	16	16	16	16	15
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	4	3	3	1	1	4	4
PGAU	HY01	-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
PGAU	HY02	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	31	30	47	47	47	0	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	50	30	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	50	30	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	0	0	0	17	17	17	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	0	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	17	17	17	25	25	25	17	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	17	0	0
TMGR	HY02	48	58	46	91	76	56	77	49	86	89	52	63	44	84	75	44	61	41	87	84	46	92	53	79	41
TMGR	HY03	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	27	29	32	32	31
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	33	33	33	29	31	33	61	60
UJLI	HY01	114	110	112	119	116	49	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	177	-1	0	0	0	0	-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
UPIA	HY01	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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	5
Total Hydro		328	350	323	415	385	289	271	239	287	291	223	246	204	282	290	437	462	430	489	483	548	597	886	842	742
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	0	0	1	3	7	9	11	14	18	14	23	14	15
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	13	20	20	21	19	29	17	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	14	19	24	28	29	28	30	16	23
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	13	16	25	29	25	15	18	15	37
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	3	2	4	1	0	1	12	12
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	8	3	14	2	12	11	24	19
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	20	25	32	38	43	47	50	44	39
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	18	24	31	18	28	17	32	49	45
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	14	18	16	22	40	19	17	40	50	51
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	13	8	23	28	30	30	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	22	17	14	7	8	24	8	17
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	20	18	15	41	37	44	9	20	33
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	11	16	16	28	17	20	42	46	24
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	9	2	15	29	17	17	7
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	37	96	169	199	234	303	290	317	351	371
PCUF	CUFG	4	3	4	4	3	4	4	3	4	3	4	4	3	4	4	4	3	3	3	3	3	4	3	4	4

Daily MW Generation on Thursday

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	CUFK	3	3	3	1	0	4	3	4	1	3	6	3	4	4	3	3	4	3	3	2	3	3	2	4	1	3	1	3	3	4	3	3	2	2	1	2	4	3	5	3	3	4	4	3	3	2	4		
Total Co-Gen		7	6	7	5	3	8	7	7	5	6	10	7	7	8	7	7	8	6	6	5	6	7	5	8	4	7	5	6	6	8	7	8	7	7	7	7	10	9	11	8	8	10	9	9	8	9	7	9	
Total Gen		14619	14231	13975	13668	13431	13265	13158	12933	12860	12797	12761	12811	12983	13263	13380	13333	13684	14855	15349	15840	16229	16537	16673	16838	16687	16421	16300	16703	17100	17343	17354	17453	17192	17100	16720	16213	15749	15423	15608	16421	16598	16538	16371	16162	15812	15581	15337	15114	
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	0	
TIE-HVDC		31	31	30	30	30	30	30	30	30	30	30	30	31	31	31	31	29	29	30	30	31	31	30	31	31	30	31	30	29	30	30	30	30	31	31	30	30	31	31	30	30	31	31	29	29	30	30	30	
TIE-PLTG		-64	-35	-10	-79	-65	-55	-27	-12	-45	-86	-59	14	25	-41	-21	-33	-79	29	-32	-47	-29	-109	1	-96	-33	-14	-38	-41	-34	-55	-9	-2	22	-8	13	-3	31	3	0	9	20	-50	17	-36	23	-33	9	-49	
Interconnection		-33	-4	19	-49	-35	-25	3	19	-15	-56	-29	44	56	-10	10	-2	-50	58	-2	-17	2	-78	31	-66	-3	17	-7	-11	-5	-25	21	27	52	23	43	27	61	33	31	39	50	-20	47	-7	52	-3	39	-19	
System Total		14666	14249	13970	13731	13480	13304	13169	12928	12889	12867	12804	12781	12941	13287	13384	13349	13748	14811	15365	15871	16241	16629	16656	16918	16704	16418	16321	16728	17119	17382	17347	17440	17154	17091	16691	16200	15702	15404	15591	16396	16562	16572	16338	16183	15774	15598	15312	15147	
SRev ST-Coal		409	595	588	596	608	600	622	663	730	785	783	773	730	653	626	621	622	603	479	330	287	218	225	208	209	151	220	225	209	147	166	147	166	204	231	204	261	292	295	295	301	295	296	290	307	307	326	305	
SRev CCGT-Gas		1550	1763	2001	2261	2444	2444	2442	2479	2442	2426	2442	2443	2330	2193	1994	2191	1921	876	757	474	282	182	313	151	231	366	325	390	349	167	169	143	195	328	510	577	644	611	603	206	159	131	344	428	527	502	635	803	
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	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	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	12	37	37	37	37	0	0	0	0	0	0	0	0	0	0	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	0
Syncon		991	904	904	904	904	904	1091	940	1091	1091	1091	1091	1091	1091	940	889	889	889	889	889	802	802	716	802	277	529	630	428	489	615	428	338	489	489	302	716	903	1091	889	338	302	489	302	615	615	903	903	853	
Hydro		208	187	214	122	152	248	79	262	63	59	127	104	146	68	211	115	90	122	63	69	241	192	339	297	450	260	279	277	331	320	390	555	490	580	577	317	360	232	222	449	413	319	457	276	371	217	217	313	
S.Reserve Total		3158	3449	3707	3883	4108	4196	4234	4344	4326	4361	4443	4411	4297	4005	3771	3816	3522	2490	2188	1762	1612	1394	1593	1458	1167	1306	1454	1320	1378	1261	1190	1220	1377	1638	1620	1814	2168	2226	2009	1288	1175	1234	1399	1609	1820	1929	2081	2274	