

Daily System Generation Summary on Thursday

Thursday, July 22, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,260 MW
Distillate	0 MW
Total TNB	2,260 MW
Total IPP	17,939 MW
Total Co-Gen	0 MW
Total System	24,179 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,038	4.66 %
Gas	71,407	20.75 %
Total TNB	87,445	25.41 %
ST-Coal	213,809	62.13 %
LSS	3,391	0.99 %
Gas	39,038	11.34 %
Total IPP	256,238	74.46 %
Co-Gen	171	0.05 %
Total Co-Gen	171	0.05 %
Total Generation	343,854	99.92 %
PLTG	294	0.09 %
HVDC	-556	-0.16 %
Interconnection	-262	-0.08 %
Net Energy	344,116	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:	22:30:00 Hour
Total Set On Bus	16,886 MW
TNB Generation	4,314 MW
IPP Generation	11,472 MW
Spinning Reserve	1,092 MW
Maximum Demand	15,813 MW
Net Energy	344,116 MWH
Load Factor	90.67 %

Fuel Cost

Total Cost:	53,497,438.62 RM
Cost per Unit	15.55 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	195
Hydro	304
Syncon	588
Thermal	411
Total	1,498

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	46
TJGS	211
Total TNB	257
NPRI	156
SKSP	1
Total IPP	157
Total Gas	414
Total Gas Required	414

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	14883	14343	13677	13158	12795	12388	12355	12331	12425	13636	14216	14581	14581	14726	15250	15657	15709	15463	14552	14333	15643	15791	15701	15702

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, August 5, 2021 10:56:12 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

Daily MW Generation on Thursday

		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		0	0	0	0	0	28	141	211	214	218	212	295	357	349	352	377	467	612	560	651	706	681	692	694	691	693	692	692	692	692	695	692	692	695	692	693	693	693	692	692	692	689	692	691						
JMAH	U002		702	696	694	692	629	547	504	441	354	354	301	306	305	305	304	304	303	358	460	478	505	504	554	697	703	696	695	697	689	697	696	694	697	697	694	696	645	645	645	694	695	697	697	691	698	698	695	694		
JMHE	U001		970	912	904	900	901	862	846	855	851	778	780	781	775	781	782	784	778	783	782	904	903	901	900	900	911	898	901	903	898	981	981	980	981	977	976	981	981	980	979	981	974	982	980	980	979	980	981	980		
JMHE	U002		969	914	901	898	897	850	849	851	849	781	777	778	774	782	778	783	779	781	782	806	902	900	901	899	907	896	716	856	897	980	981	980	982	980	977	985	981	980	981	977	973	978	980	980	979	980	981	980		
JMJG	U001		671	671	671	650	650	650	645	645	650	644	643	649	641	595	595	573	545	599	677	668	637	623	626	623	618	629	623	671	621	591	596	596	592	597	598	596	594	601	663	632	626	629	629	629	625	631				
JMJG	U002		677	677	677	650	650	650	651	643	643	660	632	667	665	592	601	571	544	601	672	667	628	636	624	665	673	669	662	673	667	668	668	668	669	673	668	630	596	597	594	602	666	625	621	629	623	634	626	631		
JMJG	U003		669	669	669	665	665	665	662	671	667	678	662	666	631	593	598	569	540	599	645	669	649	625	623	624	623	635	643	669	666	671	666	671	663	672	668	634	590	592	596	594	645	666	667	666	669	667	668	671		
JMJG	U004		789	789	789	808	808	808	806	810	815	812	805	804	804	797	800	801	800	815	800	797	794	794	800	800	792	799	792	797	801	833	860	859	861	861	862	861	862	860	859	859	859	862	859	857	859	861	861	863		
JMJG	U005		888	888	888	798	798	798	794	801	800	800	797	799	803	800	797	812	792	800	795	864	865	892	892	892	892	891	888	889	890	892	888	892	887	887	888	892	888	892	892	889	876	884	879	894	891	889	892	889		
PKLG	U006		448	448	448	446	448	448	448	447	448	449	446	449	449	447	450	447	449	449	448	446	445	450	452	451	449	449	446	448	449	449	449	448	445	448	446	449	448	448	448	444	447	446	449	449	449	448				
TBIN	U001		691	689	690	683	600	504	501	417	333	301	303	302	301	302	302	303	349	402	401	452	451	451	452	451	451	451	506	551	601	652	680	690	691	689	689	690	641	692	691	690	690	690	690	690	692					
TBIN	U003		690	688	696	689	604	499	502	404	323	304	303	304	302	304	304	304	304	304	338	406	404	403	454	455	455	454	454	509	555	604	657	683	693	697	693	695	644	602	604	604	664	688	690	691	691	688	691	690	690	
TBIN	U004		973	955	905	903	902	854	853	853	854	854	852	854	853	853	851	854	852	853	853	853	904	902	903	901	902	902	903	903	903	943	983	983	984	983	984	983	983	982	983	983	982	984	982	983	983	981	983	983		
Total ST-Coal			9137	8996	8932	8782	8552	8135	8089	7979	7798	7629	7519	7571	7598	7507	7511	7456	7366	7792	8334	8517	8739	8833	8860	9052	9071	9060	8980	9254	9428	9736	9818	9847	9852	9850	9835	9666	9412	9416	9417	9628	9853	9832	9812	9828	9829	9838	9833	9843		
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			
GLGR	GT01		67	69	68	67	67	69	68	68	69	67	67	66	68	67	67	69	67	67	67	68	67	67	68	68	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67		
GLGR	GT02		67	67	68	67	67	68	67	68	67	67	67	68	67	67	68	67	67	68	68	68	67	68	67	71	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	
GLGR	ST1C		72	73	72	72	72	73	72	73	72	73	72	73	73	73	72	72	73	72	72	72	72	72	72	72	72	72	72	72	72	72	72	73	72	72	73	72	73	73	73	73	73	73	73	73	73	73	73	73	73	73
NPRI	BLK1		505	515	519	502	503	515	520	515	514	514	512	514	501	515	500	445	514	514	516	520	513	513	515	514	517	509	513	515	511	511	515	515	515	514	505	505	510	514	515	515	510	517	515	509	504	515	502	501		
NPRI	BLK2		506	517	520	505	509	517	523	518	516	517	516	517	503	518	502	448	517	517	519	454	502	515	518	516	508	509	513	516	512	513	517	518	515	517	508	508	511	517	517	518	515	518	517	511	506	518	505	502		
PCGP	PGRG		587	602	608	586	588	604	610	604	603	603	598	603	586	603	583	603	601	602	604	605	600	601	605	601	600	592	599	601	597	597	604	601	602	603	589	590	594	603	603	604	601	603	603	594	585	601	585	583		
SKSP	BLK1		219	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SPGP	BLK1		725	725	726	726	725	724	499	500	501	500	498	499	592	727	725	724	728	726	726	724	727	724	719	720	726	725	718	715	712	710	710	710	713	710	710	713	716	717	721	722	723	724	725	727	727	727	724	727		
SPGP	BLK2		724	724	724	725	725	725	726	726	726	727	726	726	727	726	725	726	727	726	727	723	726	725	723	724	729	723	727	721	719	716	716	719	720	718	719	723	725	726	727	728	727	725	727	724	726	727	725	727		
TJGS	GT1A		220	228	224	216	222	227	223	228	226	226	225	225	219	226	220	199	224	225	232	226	228	225	222	223	223	224	227	228	228	222	222	224	224	226	219	219	226	180	222	223	223	223	226	223	220	222	223	221		
TJGS	GT1B		209	216	217	211	213	217	215	213	216	216	217	217	214	218	211	192	216	219	218	219	217	216	215	216	214	214	215	215	215	218	214	214	216	214	212	207	214	175	215	217	216	217	214	217	212	214	210	211		
TJGS	ST1C		245	235	243	243	244	244	244	241	241	241	241	241	240	240	217	241	241	230	241	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	247	244	207	213	245	245	245	245	245	242	245	242	238		
TJGS	GT2A		215	215	215	215	215	217	212	217	216	216	216	216	215	217	186	205	217	204	216	216	217	214	217	216	216	214	214	214	216	216	216	216	216	216	216	185	108	127	217	215	215	215	215	217	217	217	217			
TJGS	GT2B		212	212	212	212	212	212	212	214	212	212	212	212	212	213	213	183	201	213	201	213	213	213	212	212	212	213	213	213	213	213	213	213	213	211	211	182	102	119	212	210	210	211	211	211	211	210	211			
TJGS	ST2C		254	254	254	254	254	254	254	254	254	254	254	254	254	253	253	235	235	253	238	253	253	253	253	253	256	256	256	256	256	256	256	256	256	256	256	256	234	191	193	255	255	255	255	255	255	255	255	255		
Total CCGT-Gas			4827	47																																																

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																								
KNYR	HY03	98	97	99	98	98	99	99	98	98	99	-1	-1	-1	-1	-1	99	99	99	97	97	99	99	99	98	99	99	99	99	99	99	99	99	99	98	99	98	97											
KNYR	HY04	99	98	100	100	99	100	100	99	99	100	99	0	0	0	0	60	100	99	100	96	96	98	100	99	98	99	98	99	99	98	99	100	100	100	98	100	98	97	98	98	96							
LPIA	HY01	14	14	14	14	14	14	16	18	16	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	14	14	14	14	14	14								
LPIA	HY02	14	14	14	14	14	14	14	15	15	15	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	13	13	13	13	13	13	14	14	14	14									
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										
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	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	20	-1								
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	0	0	0	0	0	30	30	30	30	30	30	0								
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	20	0	0	0	0	30	30	30	30	30	30	0								
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	0	0	0	0	30	30	30	30	30	30	30	0								
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	0	0	0	0	17	25	25	25	25	25	25	25								
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	17	0	0	0	0	17	25	25	25	25	25	25	25							
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	25	0	0	0	0	17	25	25	25	25	25	25	25							
TMGR	HY01	78	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	33	33	33	32	-1	-1	-1	-1	34	80	80	80	80	77	80	77	30									
TMGR	HY03	78	80	80	29	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	32	32	32	32	32	32	32	32	30	30	13	-1	-1	31	79	79	79	78	76	79	76	29								
TMGR	HY04	40	49	77	38	41	42	85	41	42	53	41	42	40	42	39	42	72	42	84	55	42	76	78	43	40	46	55	47	41	49	61	72	44	40	40	41	55	45	81	42	80	59	43	41	44	39	39	
UJLI	HY01	29	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	87	93	93	86	83	91	81	83					
UJLI	HY02	87	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	95	94	90	85	93	84	84						
UPIA	HY01	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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					
UPIA	HY02	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	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	5	5	5					
Total Hydro		937	753	665	551	519	532	584	532	534	547	431	290	263	236	187	193	346	501	504	578	508	502	568	598	526	523	570	695	703	700	752	861	849	897	771	589	509	520	499	784	1144	1212	1227	1190	1169	1204	1187	914
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			
BDSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	35	80	154	225	279	355	420	399	436	478	492	464	465	472	403	320	326	316	255	196	126	66	22	2	0	0	0	0	0	0	0	0
PCUF	CUFG	2	5	4	2	4	4	2	5	4	4	3	3	3	4	5	4	1	5	3	4	3	4	4	5	4	3	4	4	4	4	4	4	4	3	3	3	4	4	3	5	4	3	3	4	3	2		
PCUF	CUFK	4	5	2	3	4	4	4	4	4	4	2	3	3	3	4	2	4	4	3	3	8	2	4	4	3	4	3	5	4	5	4	3	3	3	4	4	1	2	4	4	4	4	4	3	4			
Total Co-Gen		6	10	6	5	8	8	6	9	8	8	5	6	6	7	8	8	3	9	5	8	7	6	7	13	6	7	8	7	7	9	8	9	8	6	6	6	8	8	4	7	8	7	7	8	6	6		
Total Gen		14907	14527	14273	13939	13695	13340	13130	12959	12772	12617	12375	12300	12338	12413	12301	12030	12366	13041	13619	13931	14177	14348	14505	14699	14702	14698	14696	15065																				

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	
SRev CCGT-Gas		366	425	173	242	227	178	172	184	191	190	203	190	244	180	248	476	227	184	221	240	199	191	193	200	187	212	196	199	217	224	209	206	202	207	249	242	296	596	464	179	196	182	131	121	146	99	156	160
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	
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 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	
Syncon		277	738	738	738	825	825	825	825	825	775	775	926	1027	1027	1027	926	825	825	825	825	825	825	825	825	825	738	738	738	587	738	651	651	464	464	464	738	738	825	825	464	277	277	277	277	277	277	126	277
Hydro		397	120	80	194	139	126	74	126	124	111	277	318	194	120	169	163	211	157	154	80	150	156	90	60	132	222	175	275	418	270	305	324	337	475	476	284	236	138	159	460	415	472	457	494	515	480	648	495
S.Reserve Total		1208	1592	1364	1692	1881	1820	1845	1921	1919	1877	2051	2034	2156	2203	2315	2528	2240	2036	1942	1815	1910	1862	1822	1684	1720	1758	1639	1709	1739	1531	1392	1414	1191	1347	1397	1632	1787	2082	1970	1484	1110	1174	1128	1139	1184	1093	1172	1164