

Daily System Generation Summary on Friday

Friday, July 8, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,454 MW
Distillate	0 MW
Total TNB	2,454 MW
Total IPP	19,762 MW
Total Co-Gen	0 MW
Total System	24,572 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,727	4.71 %
Gas	21,621	5.75 %
Total TNB	39,348	10.46 %
ST-Coal	238,668	63.43 %
LSS	4,840	1.29 %
Gas	93,069	24.73 %
Total IPP	336,577	89.45 %
Co-Gen	816	0.22 %
Total Co-Gen	816	0.22 %
Total Generation	376,741	100.12 %
PLTG	1,686	0.45 %
HVDC	-1,239	-0.33 %
Interconnection	447	0.12 %
Net Energy	376,294	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,603 MW
TNB Generation	2,035 MW
IPP Generation	15,320 MW
Spinning Reserve	1,195 MW
Maximum Demand	17,404 MW
Net Energy	376,294 MWH
Load Factor	90.09 %

Fuel Cost

Total Cost:	135,169,463.03 RM
Cost per Unit	35.88 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	582
Hydro	457
Syncon	526
Thermal	161
Total	1,726

Time Weather Temperature

Afternoon	Hot	37
Morning	Sunny	29

Gas Usage

Station	(mmscfd)
GLGR	40
TJGS	84
Total TNB	124
CBPS	44
EMPP	285
NPRI	136
PCGP	79
PLPS	65
SPGP	33
Total IPP	642
Total Gas	765

Total Gas Required 765

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	16010	15188	14677	14170	13796	13551	13559	13416	13668	15179	16013	16576	16498	16157	16512	17159	17387	17192	16210	15984	17068	17070	16467	16286

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Saturday, August 6, 2022 1:10:34 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

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	704	706	704	706	706	705	705	706	710	709	708	708	709	704	705	706	705	705	709	704	705	706	705	707	
JMAH	U002	705	706	701	705	703	706	703	704	703	701	704	705	709	704	705	702	701	704	704	704	702	701	702	700	
JMHE	U001	979	980	976	903	853	851	848	851	849	850	850	849	847	848	851	847	850	921	927	981	979	980	981	977	979
JMHE	U002	978	980	979	901	853	851	850	849	851	848	848	849	849	851	850	848	849	934	931	980	980	979	979	978	980
JMJG	U001	659	690	667	671	667	667	667	667	667	666	667	666	667	666	667	666	667	667	666	667	668	666	671	668	666
JMJG	U002	672	657	671	673	675	669	674	673	673	673	672	673	675	671	673	674	676	674	673	672	675	676	675	677	669
JMJG	U003	663	666	662	661	667	667	663	668	666	662	658	670	666	657	669	667	662	670	603	593	596	595	596	615	651
JMJG	U004	977	976	977	929	873	848	851	850	850	854	852	852	852	850	851	852	902	964	977	976	976	981	977	979	978
PKLG	U003	281	280	278	280	277	278	278	276	281	276	193	149	149	150	150	150	195	264	275	278	276	276	275	276	275
PKLG	U004	273	275	273	275	275	272	272	273	274	270	184	145	150	150	152	149	194	266	277	274	273	272	272	274	275
PKLG	U005	464	462	463	472	467	474	468	468	466	407	315	273	274	273	274	273	297	373	445	462	470	472	470	464	466
PKLG	U006	447	449	448	447	450	450	446	452	449	447	448	446	447	452	446	446	448	450	447	448	446	449	449	450	447
TBIN	U002	702	704	705	703	701	703	698	700	701	702	700	706	701	703	700	705	701	700	703	698	701	701	701	704	700
TBIN	U003	697	701	699	699	698	699	701	699	698	698	699	698	698	699	698	699	695	698	697	699	700	699	697	700	699
TBIN	U004	935	940	935	865	850	852	853	854	854	853	853	852	853	855	855	853	851	880	943	939	939	941	936	939	938
Total ST-Coal		10136	10172	10138	9890	9715	9692	9677	9690	9692	9616	9354	9242	9246	9238	9244	9238	9345	9810	9964	10071	10086	10085	10099	10103	10150
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
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
CBPS	BLK2	361	222	222	226	222	222	223	223	223	218	223	223	222	222	351	361	354	360	351	294	214	221	223	353	356
EMPP	BLK1	708	709	711	716	709	653	599	518	446	408	413	416	458	484	412	408	443	541	668	708	702	710	689	708	653
EMPP	BLK2	709	710	711	715	709	660	600	519	445	409	413	415	458	481	410	408	449	539	668	707	709	710	704	710	668
EMPP	BLK3	709	710	710	715	710	677	625	543	474	408	426	427	470	496	420	408	465	562	693	705	701	711	689	709	655
GLGR	GT01	85	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	42	65	94	
GLGR	GT02	83	93	92	92	93	92	92	92	92	93	92	92	92	92	92	92	93	92	92	92	92	92	94	106	
GLGR	ST1C	83	49	42	40	40	41	40	40	40	41	40	40	40	40	41	40	41	41	40	41	40	40	38	38	
NPRI	BLK1	515	517	350	326	323	320	320	320	320	314	320	320	320	320	313	321	320	319	445	514	516	508	514	503	467
NPRI	BLK2	520	521	335	361	344	340	335	335	335	332	335	335	335	336	335	329	335	336	336	447	516	520	511	519	506
PCGP	PGRG	602	603	603	612	506	401	402	401	401	399	402	403	405	406	405	406	406	404	402	402	399	605	585	602	576
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	116	
PLPS	GT12	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	146	139	142	120	
PLPS	GT13	130	133	123	125	124	124	124	124	125	125	124	124	124	125	124	124	125	125	124	124	125	125	123	122	121
PLPS	ST18	121	60	59	60	59	58	58	58	58	58	58	58	58	58	59	59	58	58	59	58	58	59	60	137	
SPGP	BLK1	0	0	0	0	0	0	0	0	0	205	214	214	173	180	142	143	160	164	162	164	163	162	0	0	0
TJGS	GT2A	130	130	130	130	130	130	130	131	131	131	131	131	131	131	131	131	131	131	129	150	218	218	182	129	131
TJGS	GT2B	124	126	126	126	126	126	126	126	126	125	125	127	127	126	126	124	127	127	127	126	147	211	212	177	
TJGS	ST2C	199	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	205	253	253	241	196	
Total CCGT-Gas		5121	4795	4408	4438	4289	4038	3868	3624	3410	3460	3510	3519	3608	3693	3433	3398	3570	3855	4238	4569	4819	5113	5200	5122	4885
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	0
BSIA	HY02	23	23	23	23	23	23	23	23	12	12	12	12	12	12	12	12	12	12	12	12	12	22	22	22	22
CEND	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8
CEND	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	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	8	8	8	8
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	-1
HTRG	HY04	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
KNRG	HY01	32	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	37	37	37	38	38	38	38	38	38	38	23	23	23	23	23	23	23	24	23	23	37	38	37	23	23

Daily MW Generation on Friday

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		
KNRG	HY03	36	35	36	36	36	36	36	36	36	24	24	24	24	24	24	24	24	22	22	22	22	23	23	23	23	
KNYR	HY01	101	101	101	101	101	101	101	101	101	100	101	101	101	101	101	101	101	101	101	100	101	101	101	101		
KNYR	HY02	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104		
KNYR	HY03	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102		
KNYR	HY04	102	102	102	102	102	102	102	102	102	101	102	102	102	102	102	102	102	103	102	102	102	102	102	102		
LPIA	HY01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19		
LPIA	HY02	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18		
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		
PGAU	HY03	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
PGAU	HY04	22	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	21	21		
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	25	30	30	30	30	30	30	50	50	50	30		
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	50	50	50	50	50	50	30		
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	25	25	25	25	17		
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	17	17	17	17	25	25	25	25	17		
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	25	25	25	25	25	25	17		
TMGR	HY01	60	43	43	64	45	49	43	44	87	43	43	86	81	82	84	83	86	43	43	43	50	42	79	40		
TMGR	HY02	32	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
TMGR	HY04	-1	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
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	-1	-1	-1	-1	-1	-1	-1	-1		
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4		
UPIA	HY02	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	4		
Total Hydro		750	700	700	691	671	675	669	670	712	657	628	630	673	668	669	671	671	675	630	630	657	664	659	842	703	
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	1	3	8	11	14	17	19	14	22	23	27	28	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	15	19	23	23	9	30	26	22	23	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	6	14	18	21	18	30	22	24	31	11	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	15	21	24	27	32	37	34	32	34	37	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	4	5	8	12	14	14	15	20	21	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	4	6	13	17	16	26	30	30	29	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	14	17	26	30	16	5	8	36	44	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	4	9	13	16	9	12	10	14	18	14	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	14	13	20	21	27	36	49	46	46	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	19	22	38	54	62	65	38	61	91	29	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8	19	22	20	32	30	32	25	12	19	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	4	7	15	19	15	19	28	29	15	16	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	20	26	52	59	74	89	56	99	75	61	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	17	22	26	26	19	30	30	30	21	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	15	16	25	27	39	19	37	44	46	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	10	30	57	25	36	56	45	56	61	66	76	71	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	16	22	30	31	36	32	37	36	46	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	10	18	22	26	31	21	25	36	24	12	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	14	12	23	16	17	26	28	28	26	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	14	23	19	17	30	19	16	17	22	20	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	11	78	182	282	353	451	561	591	516	656	699	647	
PCUF	CUFG	29	4	5	5	5	4	4	4	5	4	6	5	4	3	5	5	5	5	4	5	6	29	28	29	28	28
PCUF	CUFK	27	5	5	5	4	5	4	4	3	5	6	4	3	4	5	4	4	14	27	25	24	25	26	25	26	

Daily MW Generation on Friday

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 Co-Gen		56	9	10	10	9	9	8	8	8	9	12	9	7	7	10	8	10	8	9	9	9	10	43	55	54	52	53	55	54	53	54	54	54	54	53	54	51	54	53	56	53	55	54	54	56	54	54	52	55
Total Gen		16063	15676	15256	15029	14684	14414	14222	13992	13822	13742	13504	13400	13534	13606	13356	13326	13674	14530	15123	15632	16022	16433	16592	16638	16448	16258	16164	16318	16538	17000	17242	17394	17386	17408	17240	16985	16291	15966	16047	16747	17116	17161	17091	16806	16509	16530	16336	16063	
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		-96	-96	-98	-97	-97	-96	-99	-96	-97	-97	-99	-99	-97	-98	-98	-98	-97	-28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	268	-30	-29	-29	-97	-97	-97	-99	-98	-97	-97	-98	-97			
TIE-PLTG		149	179	167	109	104	99	150	106	123	147	52	60	72	52	37	88	104	68	-29	8	9	-6	16	-44	-50	-28	7	-29	26	18	83	18	-1	4	48	79	111	94	92	104	145	117	120	86	139	127	148	97	
Interconnection		53	83	68	12	7	2	52	10	26	50	-47	-39	-25	-46	-60	-10	6	-29	-56	8	9	-6	16	-44	-50	-28	7	-29	26	18	83	18	-1	4	48	347	81	65	63	7	48	20	21	-13	42	30	50	0	
System Total		16010	15593	15188	15017	14677	14412	14170	13982	13796	13692	13551	13439	13559	13652	13416	13336	13668	14559	15179	15624	16013	16439	16576	16682	16498	16286	16157	16347	16512	16982	17159	17376	17387	17404	17192	16638	16210	15901	15984	16740	17068	17141	17070	16819	16467	16500	16286	16063	
SRev ST-Coal		177	141	175	422	466	465	477	465	463	524	561	542	545	552	555	548	560	447	309	152	137	138	124	220	163	144	142	171	142	161	158	146	158	146	163	173	156	155	158	155	153	140	150	162	153	151	165	148	
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		628	741	973	943	1092	1343	1513	1757	1971	2281	2231	2222	2133	2048	2308	2343	2171	1886	1343	1012	762	468	381	259	639	957	1002	1050	960	485	407	195	234	237	284	467	1034	1452	1541	958	578	545	606	880	792	698	883	1141	
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 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 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		588	500	588	588	588	588	588	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	489	214	214	214	126	588	588	588	588	588	588	588	588	588	588	588	676	676		
Hydro		381	345	344	313	333	329	335	334	291	346	375	373	330	335	334	332	332	328	373	373	346	339	344	511	400	401	401	399	399	373	477	629	649	598	682	409	365	367	369	331	345	345	344	345	378	379	371	406	
S.Reserve Total		1774	1814	2080	2266	2479	2725	2913	3144	3401	3827	3843	3813	3684	3611	3873	3899	3739	3337	2701	2213	1921	1621	1525	1391	1878	2178	2221	2296	2177	1695	1531	1184	1255	1195	1255	1637	2230	2649	2743	2119	1751	1705	1775	2062	1998	1903	2095	2371	