

Daily System Generation Summary on Friday

Friday, July 15, 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	18,986 MW
Total Co-Gen	0 MW
Total System	24,293 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,623	6.24 %
Gas	28,644	7.57 %
Total TNB	52,267	13.81 %
ST-Coal	224,891	59.43 %
LSS	5,286	1.40 %
Gas	95,510	25.24 %
Total IPP	325,687	86.06 %
Co-Gen	912	0.24 %
Total Co-Gen	912	0.24 %
Total Generation	378,866	100.12 %
PLTG	2,784	0.74 %
HVDC	-2,344	-0.62 %
Interconnection	440	0.12 %
Net Energy	378,426	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	18,752 MW
TNB Generation	2,827 MW
IPP Generation	14,723 MW
Spinning Reserve	1,160 MW
Maximum Demand	17,604 MW
Net Energy	378,426 MWH
Load Factor	89.57 %

Fuel Cost

Total Cost:	133,677,549.97 RM
Cost per Unit	35.28 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	555
Hydro	482
Syncon	250
Thermal	147
Total	1,434

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	2
TJGS	67
Total TNB	98
CBPS	44
EMPP	272
NPRI	140
PCGP	81
PLPS	51
SKSP	46
SPGP	98
Total IPP	731
Total Gas	829
Total Gas Required	829

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	15640	14942	14391	13880	13539	13285	13495	13405	13754	15489	16236	16691	16773	16559	16861	17493	17561	17374	16350	16132	17414	17356	16790	16540

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Saturday, August 6, 2022 10:16:28 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	708	707	707	704	705	702	706	705	705	705	708	706	706	706	706	707	708	706	706	705	709	709	709	709	706	713	709	707	705	703	700	705	707	709	704	705	707	704	707	704	707	705	706	703	707	705	702	706	707	704
JMAH	U002	706	707	706	707	704	705	704	707	705	701	704	703	706	705	705	704	706	705	705	702	706	705	706	709	707	705	706	705	707	704	708	705	703	700	704	707	701	705	706	703	707	705	702	706	707	704				
JMHE	U001	980	982	982	979	980	904	905	902	900	900	898	901	901	896	900	902	946	980	980	975	979	980	981	976	981	982	982	978	977	972	980	978	980	983	980	979	972	979	976	976	979	981	979	981	981	983	977			
JMHE	U002	980	983	983	977	981	903	903	901	898	899	897	903	901	901	895	897	900	946	978	971	967	972	965	976	976	979	980	979	977	977	975	980	980	979	983	980	980	976	978	975	978	978	980	979	978	980	981	979		
JMJG	U001	672	672	673	672	671	672	671	671	671	673	673	673	672	672	673	667	667	670	668	672	667	668	667	667	668	667	666	668	668	667	621	645	672	673	672	672	665	672	672	670	673	672	670	671	666	671	674	672		
JMJG	U002	670	670	671	671	666	668	670	668	670	665	671	670	667	668	669	667	668	666	668	669	668	664	671	667	667	670	671	672	668	665	670	671	671	672	673	675	675	672	678	678	672	670	675	672	675	672	675	667		
JMJG	U004	974	970	974	972	963	904	900	903	902	904	903	902	903	904	903	903	919	975	973	977	973	974	973	972	973	976	972	975	972	974	972	974	974	973	972	973	975	975	972	972	973	972	974	972	972	972	972	972		
PKLG	U003	279	276	280	277	278	279	275	276	271	272	275	273	274	276	278	279	277	280	282	276	280	278	279	278	279	276	276	277	279	276	279	275	274	275	276	274	273	275	275	275	273	274	275	274	273	275	275	275		
PKLG	U004	272	269	271	272	271	270	272	271	268	271	271	272	270	273	274	275	187	195	198	204	203	205	205	203	204	213	207	206	208	207	205	206	206	205	202	203	206	205	206	205	204	138	144	159	201	243	255	254		
PKLG	U005	467	471	469	470	473	467	466	469	473	470	465	466	466	471	468	468	466	470	469	468	466	470	469	468	467	474	464	469	466	467	466	467	466	467	466	480	466	469	465	466	467	473	466	466	464	463	466	465		
PKLG	U006	451	448	447	449	449	447	449	446	450	446	449	449	447	448	449	449	447	446	450	448	448	450	448	449	449	446	447	446	448	449	446	449	446	446	448	446	446	446	447	449	449	446	449	449	447	448				
TBIN	U002	700	701	703	701	702	702	701	698	702	701	702	701	703	702	701	701	704	702	701	701	699	701	703	699	703	702	706	700	699	706	700	702	701	704	699	701	702	701	698	703	701	697	702	699	702	702	700	709		
TBIN	U003	700	700	702	700	699	701	700	700	704	703	700	701	700	699	703	702	705	700	697	701	700	698	703	703	700	703	700	701	703	705	697	700	703	700	699	701	701	697	703	699	698	698	701	700	699	700	705	703		
TBIN	U004	938	940	941	939	941	904	904	903	903	905	902	905	902	902	903	903	904	933	943	940	938	936	939	939	939	941	939	940	940	937	939	938	940	940	938	937	938	939	941	936	940	938	938	939	936	941	940	939		
Total ST-Coal		9497	9496	9509	9490	9483	9228	9226	9220	9222	9215	9218	9225	9218	9227	9223	9221	9141	9284	9423	9414	9399	9401	9418	9417	9415	9440	9434	9426	9422	9415	9352	9392	9423	9427	9420	9430	9414	9411	9424	9410	9416	9345	9365	9371	9404	9459	9486	9471		
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	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	215	225	223	223	222	225	222	223	222	223	211	219	223	224	216	214	222	223	223	225	226	320	361	358	359	223	223	223	222	263	357	357	356	356	354	246	219	232	362	360	360	362	358	355	361	361	356			
EMPP	BLK1	684	711	467	433	411	437	408	411	409	409	394	409	414	424	404	402	451	544	612	710	713	710	709	710	696	710	700	709	704	710	715	710	708	709	706	694	634	634	672	709	713	700	711	668	634	703	708	688		
EMPP	BLK2	697	416	468	434	411	437	407	411	409	409	393	409	409	428	405	403	450	544	612	711	713	710	709	710	706	710	709	709	710	710	716	710	708	710	711	700	651	650	668	709	713	695	711	683	649	704	707	704		
EMPP	BLK3	659	418	464	434	414	432	408	411	409	409	394	409	414	430	405	401	450	550	613	711	713	710	710	710	696	710	699	709	710	716	710	706	709	707	694	638	637	667	710	713	699	711	667	636	704	708	688			
GLGR	GT02	93	93	93	92	94	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	94	93	93	93	93	93	93	93	93	93	93	93	93	93	94	93	94	93	94	93	94	94	94	94	94				
GLGR	ST1C	41	41	41	41	42	41	42	42	42	42	41	41	41	40	41	41	40	41	42	41	40	41	41	41	41	40	41	41	41	41	41	40	40	41	40	41	40	41	41	41	41	41	41	41	41	40	41			
NPRI	BLK1	368	314	311	310	310	313	310	311	307	311	293	306	310	310	302	299	310	313	311	312	419	516	515	517	511	515	511	496	494	496	503	497	497	514	517	515	512	513	515	517	520	515	516	514	508	515	516	508		
NPRI	BLK2	325	352	440	420	335	397	334	337	334	335	317	332	338	423	326	323	430	338	338	337	489	508	498	527	456	496	407	520	443	520	531	521	518	521	520	521	517	515	520	521	526	520	521	517	512	521	520	514		
PCGP	PGRG	552	605	604	454	402	407	400	400	396	402	396	397	401	401	400	396	401	405	606	604	609	601	603	602	595	600	602	599	600	601	615	603	603	600	603	599	594	597	601	603	608	601	606	595	588	593	595	579		
PLPS	GT11	111	126	128	129	128	129	129	128	128	128	129	129	129	128	129	128	129	129	129	129	129	129	129	129	129	129	127	127	131	130	115	116	116	116	65	66	67	65	141	140	140	140	138	66	66	63				
PLPS	GT13	109	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	114	136	137	113	112	112	112	63	63	64	64	135	136	136	136	134	63	63	60				
PLPS	ST18	148	129	57	57	57	57	58	56	57	56	57	57	56	57	57	56	57	56	57	56	57	57	57	58	56	57	58	124	141	140	134	132	132	96	92	89	91	140	142	141	141	141	140	92	92	88				
SKSP	BLK1	221	219	218	219	217	220	218	222	218	218	216	218	223	218	217	219	218	219	221	220	219	218	220	218	219	218	260	217	250	334	230	218	315	221	221	217	217	215	304	335	327	338	306	292	252	260	221			
SPGP	BLK1	719	719	720	720	721	722	648	599	451	449	450	449	450	450	452	450	450	646	716	716	714	715	711	708	708	712																								

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	HY01	31	31	31	31	31	31	21	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KNRG	HY02	36	36	36	36	36	36	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KNRG	HY03	35	35	35	35	35	35	22	21	22	22	22	23	23	22	22	23	36	36	36	36	36	36	36	36		
KNYR	HY01	100	101	101	101	101	101	101	100	101	100	100	101	101	101	100	101	101	101	101	101	101	101	101	100		
KNYR	HY02	105	105	105	105	105	105	105	105	105	105	105	103	103	103	103	103	103	103	103	103	103	103	103	103		
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	62	103	103	103	103	103	103	103	103	103	103	103		
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	61	102	102	102	102	102	102	102	102	102	102	101		
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	17	17	17	17	17	15	16	17	17	17	17	17		
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	18	20	20	20	20	20	15	16	17	17	17	17	17		
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	22	23	23	23	23	22	22	22	22	22	22	22	21	22	22	22	21	21	21	22	22	21	21	21		
PGAU	HY04	23	22	23	23	23	22	22	22	22	22	22	22	21	22	22	22	21	22	21	22	22	21	22	21		
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	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	30	30	31	31	31	31	0		
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0		
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0		
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	0		
TMGR	HY01	84	85	84	84	62	32	32	32	32	-1	0	-1	-1	-1	-1	84	85	84	84	84	84	85	84	85		
TMGR	HY02	78	81	81	81	60	31	0	-1	-1	-1	-1	-1	-1	-1	86	86	85	88	87	87	88	89	88	84		
TMGR	HY03	82	85	85	84	60	30	30	30	30	26	30	30	29	28	30	85	85	85	85	85	85	85	85	84		
TMGR	HY04	38	64	85	84	70	85	43	71	44	52	37	41	64	85	54	39	85	85	84	84	81	67	84	85		
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	95	92	90	91	-1		
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	94	94	92	92	-1		
UPIA	HY01	7	7	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	4	4	4	4	4	4		
UPIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	5	5	5	5	5	5	5	5		
Total Hydro		901	935	957	954	873	733	660	587	557	493	473	480	510	530	497	483	574	840	979	979	981	1016	1095	1211	1166	999
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	2	4	5	7	10	11	12	13	12	14	18	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	14	18	23	26	20	29	20	25	24	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	10	17	20	21	25	24	31	32	32	32	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	12	19	24	30	26	16	15	17	39	12	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	6	13	15	15	13	9	23	21	23	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	7	9	16	18	9	17	31	25	23	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	16	16	23	30	33	34	23	41	47	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	8	9	14	19	21	22	28	24	28	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	10	15	21	26	42	10	21	39	37	40	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	14	24	24	50	62	65	81	79	79	82	90	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	14	21	24	31	21	37	39	40	42	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	6	13	16	17	23	17	29	18	16	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	26	51	33	20	20	50	97	96	98	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	13	19	16	26	19	30	26	20	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	9	13	34	37	38	38	42	31	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	21	21	21	47	53	64	69	54	69	55	85	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	16	23	28	31	28	45	16	13	44	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	8	12	17	24	23	34	32	38	41	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	17	18	19	22	18	19	22	24	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	10	23	19	25	29	30	30	30	20	

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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	79	149	227	359	452	541	561	608	660	709	762	714	752	603	587	606	602	502	408	324	221	96	32	9	0	0	0	0	0	0	0	0	0
PCUF	CUFG	29	29	26	29	28	29	28	29	29	29	27	30	28	28	28	27	29	29	29	28	27	29	29	28	28	29	28	28	28	28	29	28	28	30	29	29	29	30	29	28	28	29	28	29	29	28	28		
PCUF	CUFK	6	7	5	5	6	6	7	6	6	7	6	7	6	5	6	6	8	7	8	6	6	6	7	6	6	8	5	7	7	13	13	12	14	14	15	13	14	13	14	14	12	13	13	13	14	27	27		
Total Co-Gen		35	36	31	34	34	35	35	35	35	36	33	37	35	34	33	34	33	37	36	37	34	33	35	36	34	34	37	33	35	35	41	42	40	42	44	44	42	43	43	43	42	40	42	41	42	43	55	55	
Total Gen		15700	15181	14983	14696	14406	14160	13850	13740	13543	13482	13363	13462	13513	13674	13454	13435	13779	14665	15487	15911	16255	16575	16719	16909	16796	16650	16547	16815	16907	17269	17564	17578	17571	17592	17362	16855	16407	16101	16161	16969	17404	17419	17364	17083	16820	16638	16543	16289	
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		-100	-97	-98	-98	-98	-99	-97	-100	-97	-97	-97	-97	-98	-99	-97	-97	-97	-97	-98	-98	-97	-99	-97	-99	-97	-99	-97	-99	-99	-99	-98	-97	-97	-97	-97	-97	-97	-97	-98	-98	-98	-97	-97	-98	-98	-96	-96		
TIE-PLTG		159	76	138	132	114	121	67	103	101	113	175	119	116	148	147	130	122	115	95	45	117	96	125	55	121	104	87	132	145	179	170	131	107	85	85	78	155	140	127	102	88	123	104	87	128	115	99	148	
Interconnection		60	-20	41	33	15	22	-30	3	4	16	78	22	18	51	49	31	25	18	-2	-52	19	-2	28	-44	23	6	-12	35	46	80	71	33	10	-12	-12	-19	57	43	29	4	-10	25	8	-10	30	17	3	52	
System Total		15640	15201	14942	14663	14391	14138	13880	13737	13539	13466	13285	13440	13495	13623	13405	13404	13754	14647	15489	15963	16236	16577	16691	16953	16773	16644	16559	16780	16861	17189	17493	17545	17561	17604	17374	16874	16350	16058	16132	16965	17414	17394	17356	17093	16790	16621	16540	16237	
SRev ST-Coal		131	132	119	138	145	395	395	400	401	407	396	399	404	395	388	398	410	258	119	143	158	156	139	140	142	117	123	131	135	142	202	165	134	130	137	148	143	146	133	147	141	155	117	190	157	118	96	111	
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	81	1	38	37	0	0	0	0		
SRev CCGT-Gas		1032	1585	1597	1865	2067	1919	2154	2185	2354	2345	2444	2363	2333	2200	2382	2405	2131	1728	1297	997	730	535	509	482	598	651	956	859	853	571	402	426	448	341	433	801	1091	1119	1011	294	251	326	263	397	535	781	757	883	
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 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	
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		374	374	374	374	374	500	500	588	588	675	588	675	675	675	675	675	675	587	500	500	500	500	313	126	126	500	500	500	500	313	126	126	126	126	126	313	313	313	313	313	126	0	1	313	313	313	500	500	
Hydro		497	463	441	444	525	539	525	472	502	399	420	412	382	362	402	416	525	347	295	295	293	338	446	517	562	355	425	337	381	444	557	561	571	563	602	480	517	668	665	597	566	609	586	516	461	453	424	362	
S.Reserve Total		2034	2554	2531	2821	3111	3353	3661	3645	3845	3826	3934	3849	3794	3632	3847	3894	3741	2920	2211	1935	1681	1529	1407	1265	1428	1623	2004	1827	1869	1470	1287	1278	1279	1160	1298	1742	2064	2246	2122	1351	1165	1091	1005	1453	1466	1665	1777	1856	