

Daily System Generation Summary on Thursday

Thursday, July 28, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,462 MW
Distillate	0 MW
Total TNB	2,462 MW
Total IPP	20,462 MW
Total Co-Gen	0 MW
Total System	25,845 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,925	6.40 %
Gas	27,204	7.28 %
Total TNB	51,129	13.68 %
ST-Coal	213,708	57.16 %
LSS	4,974	1.33 %
Gas	104,294	27.90 %
Total IPP	322,976	86.39 %
Co-Gen	606	0.16 %
Total Co-Gen	606	0.16 %
Total Generation	374,711	100.23 %
PLTG	3,197	0.86 %
HVDC	-2,347	-0.63 %
Interconnection	850	0.23 %
Net Energy	373,861	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:	16:00:00 Hour
Total Set On Bus	19,576 MW
TNB Generation	2,632 MW
IPP Generation	14,997 MW
Spinning Reserve	1,925 MW
Maximum Demand	17,593 MW
Net Energy	373,861 MWH
Load Factor	88.54 %

Fuel Cost

Total Cost:	129,637,333.61 RM
Cost per Unit	34.59 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,281
Hydro	209
Syncon	676
Thermal	175
Total	2,341

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	80
Total TNB	109
CBPS	41
EMPP	272
NPRI	123
PCGP	69
PGLA	98
PLPS	37
SGB3	34
SGRI	34
SKSP	4
SPGP	80
Total IPP	791
Total Gas	900

Total Gas Required 900

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	15035	14318	13756	13375	13137	12922	13305	13363	13743	15487	16265	16924	16938	16645	17233	17496	17593	17188	16174	16012	17149	16981	16357	16000

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 8, 2022 4:21:10 PM

(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	354	217	212	213	213	215	216	212	213	214	215	216	214	214	214	215	291	394	704	706	706	705	708	709	706	705	706	706	706	706	707	704	706	705	706	705	706	708	707	710	706	707	706	705					
JMAH	U002	703	410	215	219	213	214	214	214	214	214	213	212	213	214	214	294	439	672	703	707	700	706	707	705	705	704	705	706	708	702	706	709	705	706	707	705	707	706	708	708	708	707	709	708	705				
JMHE	U001	980	979	899	903	899	851	853	851	849	852	853	851	849	849	849	852	855	898	974	981	978	978	976	977	975	975	977	978	979	978	976	975	980	974	978	977	976	979	977	977	981	976	973	976	978	976			
JMHE	U002	982	982	895	902	903	850	851	849	850	852	850	851	850	849	850	851	854	957	977	983	979	978	979	976	978	980	982	980	982	983	981	978	978	979	975	980	979	978	984	980	979	979	980	977	980	979	978		
JMJG	U001	664	667	666	669	664	668	673	665	668	671	668	666	668	671	663	662	666	666	667	666	671	668	666	667	662	662	668	668	670	662	668	671	669	664	667	668	666	672	663	667	669	668	666	667	662	666	667	662	
JMJG	U002	671	679	671	677	670	668	671	673	676	673	677	672	671	675	673	674	674	671	673	675	673	673	674	679	672	677	672	670	674	672	675	671	672	675	674	677	672	676	679	674	671	668	677	676	677	672	673	677	
JMJG	U003	662	667	668	666	667	663	667	662	667	666	662	666	660	665	663	664	666	666	666	667	662	668	667	667	662	666	663	665	663	667	664	665	665	662	671	668	668	662	669	665	666	667	668	664	669	661	671		
JMJG	U004	973	970	950	901	903	895	854	854	854	853	854	852	852	853	852	854	873	932	975	972	972	972	969	971	971	972	974	971	972	972	972	969	971	971	977	972	972	972	971	971	969	970	972	971	970	974	968		
PKLG	U003	152	148	148	144	145	144	144	145	147	148	147	145	144	146	145	145	147	207	258	269	274	278	280	277	280	275	276	276	275	277	278	277	280	273	275	274	275	281	277	278	276	279	277	280	276	278	279	216	
PKLG	U004	156	151	154	153	154	155	154	156	151	150	156	155	154	156	159	154	154	244	275	275	276	272	275	275	273	272	272	276	272	272	274	275	275	273	276	272	272	273	273	273	271	268	274	274	273	275	272	215	
PKLG	U005	332	266	269	269	268	269	268	267	269	269	268	268	269	268	267	268	269	299	405	468	467	460	468	469	466	468	466	466	466	466	468	464	467	464	464	466	470	464	477	466	456	467	463	470	465	477	477	405	
TBIN	U001	683	472	314	226	209	210	209	208	209	211	210	209	209	210	209	215	359	564	599	700	694	695	696	695	694	696	695	691	696	695	696	646	694	698	696	698	696	693	700	700	695	697	698	698	696	697	697	699	
TBIN	U002	702	705	699	701	702	699	703	702	703	701	703	702	701	704	700	706	705	703	699	696	701	701	704	698	701	703	695	705	703	695	703	700	701	701	700	706	702	701	705	698	703	699	701	705	700	705	700	699	
TBIN	U003	701	701	701	701	701	704	702	703	702	703	702	701	700	702	701	701	701	701	700	702	698	701	702	702	699	700	699	700	699	699	698	698	699	698	697	700	696	697	701	698	697	697	697	698	698	699	700	699	
TBIN	U004	940	940	903	903	902	891	814	799	708	622	530	502	474	358	307	0	0	0	0	0	0	0	0	0	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-Coal		9655	8954	8364	8247	8213	8096	7993	7960	7880	7797	7712	7668	7629	7531	7468	7173	7489	8282	9201	9465	9463	9444	9471	9466	9453	9453	9445	9457	9461	9449	9470	9410	9459	9446	9454	9469	9460	9463	9476	9468	9443	9450	9465	9482	9445	9479	9470	9276	
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	223	223	223	223	223	218	222	222	222	220	223	223	222	222	223	225	218	221	223	221	223	222	221	217	222	222	223	221	223	220	223	223	223	217	247	351	359	356	361	361	360	360	361	355	217	216	214		
EMPP	BLK1	414	509	618	555	472	407	456	410	411	409	409	477	520	572	495	570	584	686	528	532	609	704	710	710	693	638	644	709	710	693	708	710	705	708	703	689	651	583	572	710	704	687	687	707	658	649	635	628	
EMPP	BLK2	414	508	617	555	472	407	454	409	410	409	410	477	519	573	493	570	580	700	527	527	609	706	709	707	704	636	642	710	710	704	708	710	705	709	704	705	672	591	584	710	703	698	703	704	674	665	654	640	
EMPP	BLK3	418	503	616	556	466	407	439	409	409	409	472	516	574	489	570	584	686	536	530	614	705	710	710	692	649	654	708	709	694	709	710	705	709	703	690	657	585	572	710	704	692	689	704	657	649	635	622		
GLGR	GT02	94	94	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	93	94	94	94	94	94	94	94	94	94	94	94	94	94	94			
GLGR	ST1C	41	41	41	41	41	40	40	40	41	41	42	41	41	41	41	40	40	41	41	41	40	41	40	41	40	41	41	40	40	41	40	40	41	42	41	40	41	42	41	40	41	41	41	40	40	41	40		
NPRI	BLK1	320	320	320	320	320	313	319	319	318	315	320	321	319	320	320	321	322	312	319	319	317	320	319	397	302	309	308	311	307	311	346	350	438	447	507	498	499	396	392	401	516	512	514	514	508	506	297	298	
NPRI	BLK2	336	336	335	335	335	330	335	335	335	331	337	335	334	335	336	336	338	326	335	335	334	337	335	338	329	335	334	335	438	535	537	538	547	547	478	352	368	410	443	529	509	508	494	335	327	326	324	324	
PCGP	PGRG	412	403	402	402	405	403	404	406	403	405	408	409	407	408	403	408	415	406	404	402	399	402	601	598	589	397	397	401	598	601	591	602	582	601	584	444	394	395	395	407	400	395	396	401	397	402	401	401	
PGLA	GT11	170	170	171	171	170	167	170	172	168	171	172	167	170	171	170	171	169	170	169	167	169	170	170	169	170	168	170	168	170	169	170	166	168	168	168	171	215	216	215	172	168	167	167	167	167	167	167		
PGLA	GT12	174	173	174	174	173	172	173	173	174	173	174	175	174	174	174	175	176	171	174	173	173	173	173	173	172	170	172	173	172	173	173	171	173	173	170	171	168	173	171	174	220	219	220	174	172	170	170	170	
PGLA	ST10	205	205	205	205	205	202	205	205	204	202	204	205	204	205	204	205	205	203	205	205	206	206	206	206	205	206	206	206	205	205	205	206	206	206	206	204	205	203	204	205	205	240	238	237	204	205	204	204	203
PLPS	GT11	132	133	129	129	129	129	128	130	129	129	128	129	129	129	129	129	129	129	129	128	129	129	128	129																									

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
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	8	9	9	8	8	8	8	9	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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	62	62	62	62	123	123	122
HTRG	HY02	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	123	122	121	123	122	120	120	119
HTRG	HY03	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	21	21	21	21	20	21	21	21	21	21	21	21	32	32	32	32	32	32	32	32	32	32	32	32
KNRG	HY02	22	22	22	22	21	21	21	22	22	22	21	21	38	38	38	38	37	38	37	37	37	37	37	37
KNRG	HY03	23	23	23	23	22	23	22	23	23	23	23	23	36	36	36	36	36	36	36	36	36	36	36	36
KNYR	HY01	100	100	100	100	100	60	100	60	60	61	101	100	100	100	100	100	100	100	100	100	100	100	100	100
KNYR	HY02	101	101	101	101	100	61	105	61	61	60	105	105	105	105	105	105	105	105	105	105	105	105	105	105
KNYR	HY03	104	104	104	104	104	60	104	105	61	61	104	105	105	105	105	105	105	105	105	105	104	104	104	105
KNYR	HY04	103	103	103	103	103	61	101	101	60	61	99	101	101	101	101	100	101	101	101	101	101	101	101	100
LPJA	HY01	19	19	19	19	19	19	19	19	19	19	19	20	20	21	21	21	21	20	20	20	20	23	23	15
LPJA	HY02	19	19	19	19	19	19	19	19	19	19	19	20	21	21	22	21	21	20	20	20	20	21	21	12
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	HY01	-1	-1	-1	-1	-1	10	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	20
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	30	30	30
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	30	30	30
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	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	25	25	25	25	25	25	25	25
TMGR	HY01	85	82	43	42	44	42	42	42	42	43	43	42	42	45	43	85	82	85	85	66	60	59	84	84
TMGR	HY02	32	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	32	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32	83	83	81	83	81	81
TMGR	HY04	84	80	42	41	43	41	41	41	41	41	41	41	44	42	84	81	84	85	65	59	54	84	84	39
UJLI	HY01	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	108	125	104	149	-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	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3
Total Hydro		886	818	739	737	740	732	580	737	653	568	571	571	737	760	739	788	772	770	853	848	857	858	879	932
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	5	8	14	20	22	25	20	18	5
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	9	4	13	19	14	26	28	31	33	38	34
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	9	23	24	26	27	31	32	32	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	14	20	26	7	40	17	40	39	17	7
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	12	0	0	0	0	0	0	0	0
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	11	2	6	20	13	11	25	26	13	16
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	9	16	30	32	35	38	38	44	48
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	11	15	23	22	18	12	16	15
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	11	17	11	28	33	29	30	16	7	6
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	12	19	27	55	68	74	80	85	88	91	87
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	8	11	16	35	36	37	39	40	42	44
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	11	15	23	24	22	24	25	30	23
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	10	20	60	72	82	90	95	72	100	65
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	12	15	17	20	18	15	9	13	25
MNLS	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

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																									
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	23	23	50	82	87	82	110	88	106	107	53	60	110	88	23	114	50	52	16	16	9	6	1	0	0	0	0	0	0	0	0			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	13	37	13	36	39	9	37	43	52	21	52	23	52	11	6	6	4	4	4	3	1	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	2	5	9	17	25	17	29	36	33	33	36	23	39	15	12	5	5	17	12	13	7	1	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	1	2	2	4	8	10	18	9	13	15	13	20	11	10	5	8	6	7	5	8	0	1	2	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	1	2	5	8	12	19	30	30	30	30	30	30	27	30	17	3	8	15	30	4	2	1	1	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	8	65	138	206	330	467	579	642	702	671	715	693	653	639	803	603	511	552	378	283	147	97	59	18	1	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	23	23	22	22	23	24	23	23	23	25	24	22	22	23	23	22	23	21	21	20	20	19	19	18	18	19	18	19	20	22	23	22	23	23	22	22	22	22	22	22	22	23	22	22	22				
PCUF	CUFK	3	5	4	4	3	5	3	3	4	4	6	4	4	3	3	3	5	3	3	4	3	3	4	4	2	3	4	5	5	4	3	2	4	3	4	4	3	3	4	4	5	3	4	3	4	4			
Total Co-Gen		26	28	26	26	26	29	26	26	27	29	30	26	26	25	26	26	28	25	26	25	24	23	23	23	22	20	22	22	24	24	22	22	22	26	26	26	27	26	26	26	26	27	25	26	26	26	26		
Total Gen		15075	14700	14353	13996	13784	13700	13442	13348	13186	13000	12947	13101	13354	13593	13374	13374	13784	14905	15514	15900	16270	16666	16977	17159	16951	16722	16707	16877	17257	17328	17495	17537	17651	17639	17260	16738	16261	16067	16035	16751	17185	17164	17047	16793	16397	16227	16034	15640	
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		-99	-97	-97	-97	-97	-97	-97	-97	-100	-97	-97	-98	-98	-98	-96	-97	-98	-99	-98	-98	-98	-98	-97	-99	-97	-97	-98	-99	-100	-99	-96	-97	-97	-97	-98	-97	-97	-97	-97	-98	-97	-98	-99	-99	-99	-99	-97		
TIE-PLTG		139	101	132	100	125	148	164	131	146	145	122	124	147	156	109	153	138	158	125	88	103	120	151	139	111	112	158	140	122	70	99	88	155	183	170	139	184	122	120	85	134	141	164	130	140	177	133	152	
Interconnection		40	4	35	4	28	52	67	34	49	45	25	28	49	59	11	57	41	60	27	-11	5	21	53	40	13	13	62	43	24	-29	-1	-10	58	86	72	40	87	25	23	-12	36	44	66	31	40	78	34	55	
System Total		15035	14696	14318	13992	13756	13648	13375	13314	13137	12955	12922	13073	13305	13534	13363	13317	13743	14845	15487	15911	16265	16645	16924	17119	16938	16709	16645	16834	17233	17357	17496	17547	17593	17553	17188	16698	16174	16042	16012	16763	17149	17120	16981	16762	16357	16149	16000	15585	
SRev ST-Coal		333	446	679	704	716	734	763	774	763	769	765	777	679	671	624	370	154	156	175	148	153	166	166	174	162	158	170	149	209	160	173	165	150	159	156	143	151	176	169	154	149	174	140	149	243				
SRev CCGT-Gas		2477	2175	1861	2099	2410	2380	2392	2610	2609	2629	2601	2399	2273	1958	2094	1856	1805	1545	2007	2003	1776	1473	1273	1199	1360	1689	1673	1477	1168	1104	1065	1035	977	944	987	1404	1653	1903	1910	1375	961	1009	1020	1346	1640	1813	1975	2013	
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 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 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	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		615	615	615	615	615	615	464	615	615	802	802	802	651	802	739	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890
Hydro		297	278	270	272	269	277	580	272	356	441	437	437	271	399	269	370	235	237	154	159	150	149	367	163	166	109	108	108	163	310	266	276	450	157	209	193	362	272	419	249	203	334	118	61	127	134	156	469	
S.Reserve Total		3722	3601	3512	3777	4097	4093	4286	4358	4430	4541	4692	4500	4213	3860	4029	3644	3601	3296	3421	3206	2972	2687	2439	2317	2494	2766	2757	2549	2291	2386	2095	1984	1925	1763	2037	2423	2850	3007	2997	2264	1829	1850	1968	2232	2617	2763	2956	3250	