

Daily System Generation Summary on Friday

Friday, June 3, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,398 MW
Distillate	0 MW
Total TNB	2,398 MW
Total IPP	19,311 MW
Total Co-Gen	0 MW
Total System	25,397 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,623	4.31 %
Distillate	674	0.17 %
Gas	47,730	12.37 %
Total TNB	65,027	16.85 %
ST-Coal	213,575	55.33 %
ST-Gas	1,519	0.39 %
LSS	4,218	1.09 %
Distillate	11,110	2.88 %
Gas	89,429	23.17 %
Total IPP	319,851	82.87 %
Co-Gen	924	0.24 %
Total Co-Gen	924	0.24 %
Total Generation	385,802	99.96 %
PLTG	-898	-0.23 %
HVDC	727	0.19 %
Interconnection	-171	-0.04 %
Net Energy	385,973	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	19,784 MW
TNB Generation	3,614 MW
IPP Generation	14,504 MW
Spinning Reserve	1,628 MW
Maximum Demand	18,197 MW
Net Energy	385,973 MWH
Load Factor	88.38 %

Fuel Cost

Total Cost:	106,526,226.46 RM
Cost per Unit	27.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,223
Hydro	528
Syncon	246
Thermal	250
Total	2,247

Time	Weather	Temperature
Afternoon	Hot	37
Morning	Sunny	29

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	152
Total TNB	201
CBPS	48
EMPP	285
NPRI	139
PCGP	71
PGLA	19
PLPS	25
SPGP	135
PKLG	16
Total IPP	737
Total Gas	938

Total Gas Required 1,053

Alternate Fuel Usage

Station	(mmscfd)
PGLA	31
GLGR	6
PGLA	31
PLPS	47
Total	115

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	16308	15522	14851	14389	14110	13849	13899	13811	14033	15441	16327	16812	16776	16621	17063	17894	18116	17859	16754	16551	17515	17449	16988	16827

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, June 9, 2022 3:42:46 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	707	706	704	705	707	705	705	706	706	706	706	705	705	706	708	707	706	708	709	706	704	705	706	707
JMAH	U002	706	707	705	703	703	704	708	705	706	706	701	703	704	703	704	706	704	705	708	707	706	704	703	707
JMHE	U001	977	974	974	974	976	975	974	901	900	901	899	901	899	901	900	904	944	980	983	977	976	980	979	976
JMJG	U002	0	0	0	0	0	0	19	188	251	288	376	480	472	492	519	515	444	448	467	478	538	596	662	590
JMJG	U003	670	679	656	677	671	684	655	668	678	668	666	672	667	669	649	603	490	405	506	502	515	510	562	635
JMJG	U004	977	979	980	981	983	983	967	911	905	904	901	903	908	905	905	906	909	959	982	979	983	979	980	977
JMJG	U005	971	974	972	972	972	972	941	899	900	898	899	902	899	898	899	900	928	972	977	977	974	972	975	972
PKLG	U003	281	279	282	280	280	279	282	277	280	278	279	277	281	275	281	276	279	279	277	279	279	276	277	279
PKLG	U004	278	224	203	237	263	243	205	210	220	255	191	204	205	204	211	205	213	203	211	210	207	204	206	207
PKLG	U005	475	469	467	464	470	468	466	462	465	470	466	468	466	468	469	467	468	467	467	468	466	466	466	473
PKLG	U006	446	448	448	450	446	450	450	446	446	446	448	448	447	451	454	446	448	448	448	445	449	448	449	448
TBIN	U001	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	698	702	698	
TBIN	U002	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	696	702	700	
TBIN	U003	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	700	
Total ST-Coal		8557	8508	8460	8512	8540	8532	8441	8442	8525	8589	8606	8731	8724	8738	8758	8648	8603	8640	8801	8798	8869	8901	9029	9040
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
PKLG	U002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	36	65	74	108	142	143	143	
Total ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	36	65	74	108	142	143	143	
CBPS	BLK2	355	358	361	299	223	223	222	222	223	222	225	218	224	227	222	219	223	222	312	361	361	355	358	360
EMPP	BLK1	703	712	711	708	709	710	666	555	513	427	377	375	374	378	375	379	375	543	603	709	712	707	709	711
EMPP	BLK2	702	708	710	708	709	710	661	553	512	380	381	380	379	383	379	383	380	539	603	709	712	706	709	712
EMPP	BLK3	703	709	710	707	709	709	657	528	481	380	382	380	379	383	380	384	380	505	577	709	712	707	709	713
GLGR	GT01	85	85	84	84	85	85	83	84	0	0	0	0	0	0	0	0	90	82	82	81	81	82	82	82
GLGR	GT02	83	83	83	83	83	83	83	83	99	101	84	84	84	84	84	89	106	90	82	82	82	82	81	81
GLGR	ST1C	83	83	83	83	83	83	83	83	88	91	81	83	83	83	84	83	83	94	90	81	82	81	82	81
NPRI	BLK1	522	526	530	528	412	320	319	320	320	318	322	314	323	323	319	317	320	320	331	319	397	508	511	
NPRI	BLK2	519	528	530	527	410	322	319	320	320	319	322	314	323	325	318	317	321	319	332	320	398	514	515	
PCGP	PGRG	588	502	404	402	408	407	406	405	401	405	408	401	406	412	399	402	401	400	442	422	414	406	401	
PGLA	GT12	217	221	159	157	167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGLA	ST10	108	108	88	89	91	98	98	97	98	99	85	84	84	84	84	83	98	98	98	98	98	98	98	
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	ST18	138	139	138	138	137	137	137	137	138	138	126	126	128	126	125	124	126	137	137	136	137	136	135	
SPGP	BLK1	476	361	358	359	360	359	359	360	360	360	360	359	360	360	360	360	360	360	360	359	360	360	359	
SPGP	BLK2	473	359	358	360	360	359	360	360	360	360	360	361	360	360	360	360	360	358	358	358	358	358	359	
TJGS	GT1A	223	222	196	158	119	124	126	122	126	125	125	123	123	123	127	123	123	122	201	224	224	222	222	
TJGS	GT1B	213	212	190	153	116	116	119	119	116	117	119	115	116	118	115	121	115	118	120	189	216	215	214	
TJGS	ST1C	247	247	221	196	169	162	162	162	162	162	162	162	162	162	162	162	162	211	242	245	245	245	245	
TJGS	GT2A	0	0	0	0	0	0	0	0	49	63	153	184	161	161	161	161	158	161	161	161	181	220		
TJGS	GT2B	123	124	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS	ST2C	89	87	87	0	0	0	0	0	0	32	87	103	95	95	95	95	95	95	95	93	116	116	116	
Total CCGT-Gas		6650	6374	6122	5739	5350	5007	4860	4510	4366	4099	4159	4166	4164	4189	4148	4158	4154	4661	5084	5605	5861	6118	6126	
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	
BSIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
BSIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BSIA	HY03	21	21	21	22	22	22	22	21	21	21	22	21	21	21	21	21	21	21	21	21	21	21	21	
CEND	HY01	10	10	10	10	10	10	9	9	9	10	9	10	9	9	9	9	10	10	10	10	10	10	10	

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	
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	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	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	7	7	7	7	7	7	
HTRG	HY01	122	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	63	62	62	62	63	63	62	62	63	63	63
HTRG	HY02	121	63	63	63	63	63	63	63	63	63	63	63	63	63	63	62	62	62	63	63	63	63	63	63	
HTRG	HY04	3	3	4	4	4	4	3	3	3	3	3	3	3	4	4	3	3	3	3	3	3	3	3	3	
KNRG	HY01	34	34	34	34	34	34	34	35	35	35	35	35	35	35	35	35	35	35	35	35	35	34	34	34	
KNRG	HY03	36	36	36	36	36	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
LPIA	HY01	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	19	19	19	19	
LPIA	HY02	10	11	16	18	20	21	21	21	21	21	21	21	21	23	23	23	26	26	26	26	26	26	15	19	
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	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	21	21	21	22	21	21	21	
PGAU	HY04	21	21	21	21	21	21	21	21	21	20	20	20	21	22	22	22	21	21	21	21	21	21	20	20	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	25	25	25	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	17	
TMGR	HY01	83	84	84	83	83	42	43	42	42	43	84	42	84	84	56	43	82	83	83	60	45	42	44	51	
TMGR	HY02	83	85	84	84	84	85	84	84	84	85	34	34	89	89	34	34	88	88	88	88	89	89	89	89	
TMGR	HY03	84	84	84	84	84	41	41	41	41	41	82	41	83	84	54	41	80	82	84	57	44	39	41	46	
TMGR	HY04	84	84	84	84	84	84	84	84	84	34	-1	-1	-1	84	84	84	84	84	84	84	84	84	84	84	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	86	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	95	93	95	91	99	87	-1	
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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	5	5	5	5	5	5	5	5	5	
Total Hydro		802	674	615	617	619	538	536	534	535	538	519	338	475	476	364	313	689	691	692	645	618	610	615	627	596
GLGR	GT01	0	0	0	0	0	0	0	99	101	85	85	85	85	86	84	88	100	0	0	0	0	0	0	0	0
PGLA	GT12	0	0	0	0	208	210	210	210	163	164	165	165	169	164	165	208	206	207	205	205	204	204	203	205	205
PLPS	GT11	144	148	150	150	148	149	150	149	148	150	115	114	114	115	115	119	145	149	145	144	142	144	145	141	141
PLPS	GT13	144	148	148	147	147	147	148	146	148	148	111	108	110	111	112	112	110	140	144	141	140	136	140	140	138
Total Distillate		288	296	298	297	295	504	508	505	605	609	474	471	474	476	482	475	482	593	499	493	489	483	488	489	482
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	10	14	17	21	11	16	24	26	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	17	13	21	16	24	25	24	24	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	16	19	22	24	27	18	15	20	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	16	19	24	29	33	30	35	20	12	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	8	12	16	21	11	18	12	24	30	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12	20	22	22	36	32	41	43	42	45	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	7	13	27	40	51	53	67	69	69	82	64	94	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	16	20	26	27	34	37	40	38	44	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	12	16	18	26	21	25	6	9	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	13	11	22	25	20	29	22	29	21	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	9	17	30	30	38	41	43	45	45	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	19	24	35	72	82	92	87	92	113	103	92	97	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	9	21	23	40	20	29	45	37	47	20	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	11	13	20	25	30	24	23	34	33	18	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	7	9	20	17	26	23	27	23	7	

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		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6	4	8	13	30	30	30	30	30	24	20	25	26	17	30	30	25	30	24	19	9	4	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	26	92	155	246	348	455	506	502	571	606	582	528	570	580	529	548	452	338	311	220	136	89	38	15	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	26	24	25	25	25	25	24	25	24	23	26	25	19	19	18	20	21	19	19	18	18	17	17	16	16	17	17	15	15	15	16	15	14	14	14	15	14	15	16	14	15	18	16	17	16	16	17	17	
PCUF	CUFK	27	17	17	18	18	18	17	17	18	17	18	18	17	18	17	18	15	17	19	18	17	18	18	18	22	24	23	23	23	22	24	23	24	23	21	23	23	23	23	23	24	23	23	23	15	18	17	17	
Total Co-Gen		53	41	42	43	43	43	41	42	42	40	44	43	36	37	35	38	36	36	38	36	35	35	35	34	38	41	40	38	38	38	39	37	38	37	36	37	38	39	37	39	41	39	40	31	34	34	34		
Total Gen		16350	15893	15537	15208	14847	14624	14386	14033	14073	13875	13749	13873	13916	13787	13658	14056	14776	15360	15925	16327	16653	16795	16902	16744	16693	16555	16684	17082	17451	17856	18086	18058	18156	17860	17286	16753	16361	16580	17463	17582	17602	17484	17291	17010	16963	16857	16682		
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		31	29	29	30	32	31	31	31	32	31	29	29	29	32	31	30	30	31	31	31	29	30	30	31	31	30	30	30	30	30	30	30	30	29	31	29	29	29	29	31	29	31	31	29	31	29	31	30	
TIE-PLTG		11	16	-14	-6	-36	-54	-34	-32	-69	-31	-75	-42	-55	-45	-55	-15	-8	-114	-112	-47	-28	-16	-47	-30	-63	-95	-96	-89	-10	-4	-68	-36	-88	-69	-30	-29	-31	-100	-1	29	38	-35	4	-73	-9	-10	-1	6	
Interconnection		42	45	15	24	-4	-23	-3	-1	-37	1	-47	-13	-26	-13	-24	15	23	-83	-81	-16	0	14	-17	1	-32	-65	-66	-59	19	26	-38	-5	-58	-41	1	0	-1	-70	29	61	67	-3	35	-43	22	20	30	36	
System Total		16308	15848	15522	15184	14851	14647	14389	14034	14110	13874	13849	13762	13899	13929	13811	13643	14033	14859	15441	15941	16327	16639	16812	16901	16776	16758	16621	16743	17063	17425	17894	18091	18116	18197	17859	17286	16754	16431	16551	17402	17515	17605	17449	17334	16988	16943	16827	16646	
SRev ST-Coal		137	186	234	182	154	162	303	451	465	498	531	507	517	551	529	553	441	224	183	186	285	393	265	313	232	235	235	219	209	233	222	230	206	193	199	194	192	243	293	319	188	180	194	182	183	316	253	189	
SRev CCGT-Gas		971	1247	1499	1528	1917	2029	2176	2526	2786	3317	3125	3118	3120	3095	3136	3126	3130	2623	2306	1785	1529	1272	1264	1249	1535	1618	2031	2008	1800	1494	1057	797	729	585	854	1253	1719	2016	1709	973	983	844	758	867	1119	1163	1254	1432	
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	31	32	33	34	37	38	39	39	39	39	39	39	39	39	39	39	38	38	38	38	39	29	29	29	30
SRev Distillate		-2	-10	-12	-11	-9	13	9	12	18	14	149	152	149	147	141	148	141	30	18	24	28	34	29	28	35	34	28	60	29	28	30	29	29	69	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		374	374	500	500	500	500	500	500	500	588	588	588	588	588	588	374	374	374	374	374	374	374	374	374	374	374	374	374	374	187	187	187	187	187	187	187	374	374	374	374	187	0	0	126	313	313	313	500	500
Hydro		339	440	373	371	369	450	452	454	453	450	469	437	300	299	411	462	425	423	422	469	496	504	499	487	494	484	435	470	652	549	610	538	562	555	578	492	466	476	471	546	651	637	502	410	430	419	334	395	
S.Reserve Total		1819	2264	2621	2597	2958	3181	3467	3970	4249	4806	4801	4829	4701	4707	4832	4904	4511	3674	3303	2838	2712	2577	2431	2451	2701	2777	3136	3165	2914	2529	2145	1820	1752	1628	1857	2372	2810	3148	2886	2063	1860	1699	1618	1811	2074	2240	2370	2546	