

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,153 MW
Distillate	0 MW
Total TNB	2,153 MW
Total IPP	18,872 MW
Total Co-Gen	0 MW
Total System	24,426 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,543	5.81 %
Gas	49,867	13.44 %
Total TNB	71,410	19.25 %
ST-Coal	193,281	52.09 %
LSS	5,410	1.46 %
Gas	99,720	26.88 %
Total IPP	298,411	80.43 %
Co-Gen	858	0.23 %
Total Co-Gen	858	0.23 %
Total Generation	370,679	99.91 %
PLTG	1,319	0.36 %
HVDC	-1,664	-0.45 %
Interconnection	-345	-0.09 %
Net Energy	371,024	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	18,905 MW
TNB Generation	3,517 MW
IPP Generation	13,851 MW
Spinning Reserve	1,497 MW
Maximum Demand	17,461 MW
Net Energy	371,024 MWH
Load Factor	88.54 %

Fuel Cost

Total Cost:	115,731,920.79 RM
Cost per Unit	31.21 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	807
Hydro	389
Syncon	221
Thermal	156
Total	1,573

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	3
TJGS	83
Total TNB	115
CBPS	39
EMPP	296
NPRI	79
PCGP	89
PGLA	83
PLPS	78
SPGP	211
Total IPP	874
Total Gas	989
Total Gas Required	989

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	15292	14514	14077	13674	13243	13127	13387	13344	13656	15316	16318	16749	16642	16183	16833	17207	17461	17043	16017	16023	16817	16472	15942	15664

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 5, 2022 8:59:30 AM

(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	345	208	214	213	215	214	214	213	214	213	214	213	214	214	214	213	213	214	213	215	214	214	214	213	214
JMHE	U001	978	976	977	977	848	850	850	850	849	848	850	850	851	848	849	849	849	847	962	980	978	981	981	980	978
JMHE	U002	974	975	976	751	751	498	501	500	499	501	499	502	757	752	848	849	852	960	981	981	980	976	978	980	982
JMJG	U001	681	679	682	679	673	675	679	676	675	677	678	677	683	680	678	676	672	677	679	678	661	667	666	668	667
JMJG	U002	670	666	668	668	671	669	667	667	668	670	671	669	670	662	668	663	670	667	670	668	671	669	673	666	671
JMJG	U004	902	900	900	899	873	862	862	861	862	862	864	861	862	863	861	862	861	904	905	906	904	901	906	907	906
JMJG	U005	843	834	834	827	827	824	803	799	795	801	801	797	801	796	797	800	800	801	803	801	801	797	798	853	883
PKLG	U006	365	280	265	268	268	263	268	268	269	271	269	269	270	270	269	269	269	269	241	320	418	444	445	449	448
TBIN	U001	459	243	211	211	210	210	211	212	211	213	211	211	210	212	214	211	296	409	608	701	698	698	699	698	697
TBIN	U002	700	702	696	710	700	700	695	596	274	209	212	211	211	212	212	212	211	211	222	403	621	705	702	702	700
TBIN	U003	418	300	212	216	212	211	211	211	211	212	211	212	212	213	211	214	222	303	450	650	700	699	701	702	698
TBIN	U004	801	803	800	802	802	802	803	804	802	803	804	803	801	802	803	803	803	804	803	804	803	802	804	803	804
Total ST-Coal		8136	7566	7435	7221	7050	6778	6764	6659	6329	6276	6285	6274	6286	6527	6531	6621	6718	6915	7532	7872	8057	8354	8536	8617	8642
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	198	202	200	201	211	198	201	201	203	202	201	201	206	201	260	260	261	269	270	274	273	277	274	275	275
EMPP	BLK1	659	710	678	690	727	710	708	640	709	707	707	706	716	709	681	664	666	710	676	709	700	669	598	645	580
EMPP	BLK2	661	710	680	699	726	709	707	638	709	708	708	707	716	705	678	675	678	709	688	710	712	708	708	694	689
EMPP	BLK3	698	710	707	705	726	709	707	672	707	709	706	710	716	709	703	665	667	710	679	710	712	698	688	691	676
GLGR	GT02	91	91	91	92	91	91	91	91	92	92	92	91	92	92	91	91	91	91	92	91	91	91	91	92	92
GLGR	ST1C	40	41	41	41	41	41	41	41	41	41	41	41	41	40	41	41	41	41	40	41	40	41	40	40	40
NPRI	BLK2	522	524	525	523	324	518	517	518	518	519	518	524	518	517	512	515	518	514	518	517	507	512	504	508	507
PCGP	PGRG	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
PGLA	GT11	134	133	134	134	134	134	134	134	134	134	134	134	134	134	134	134	134	133	133	134	133	134	133	134	134
PGLA	GT12	136	137	137	136	137	137	136	137	138	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137	137
PGLA	ST10	179	179	179	179	179	180	178	180	179	179	178	179	179	179	179	179	179	179	179	180	180	180	180	180	180
PLPS	GT11	115	116	115	115	120	114	115	116	116	115	116	116	119	115	66	64	66	66	62	66	146	145	132	132	103
PLPS	GT12	119	120	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	136	135	109	66
PLPS	GT13	112	113	112	112	117	112	112	112	112	112	114	111	62	60	63	63	61	64	145	144	128	129	104	59	58
PLPS	ST18	197	197	187	132	133	135	133	133	133	131	132	133	136	135	95	91	91	91	89	91	141	144	204	207	195
SPGP	BLK1	721	723	725	726	735	724	724	724	723	724	725	724	723	723	726	715	719	723	713	724	722	720	711	714	705
SPGP	BLK2	723	723	724	724	738	724	722	725	724	725	725	724	726	723	722	718	720	723	715	723	721	718	708	716	707
TJGS	GT2A	131	131	131	131	131	129	132	132	131	131	131	131	131	154	130	130	188	217	217	217	167	129	129	129	129
TJGS	GT2B	126	129	127	127	127	127	127	127	127	127	127	127	148	126	127	148	126	126	126	126	126	126	126	126	126
TJGS	ST2C	193	193	193	193	193	193	193	193	193	193	193	193	193	193	199	194	194	231	250	250	250	222	193	193	193
Total CCGT-Gas		6355	6482	6343	6260	6190	6287	6275	6114	6290	6285	6284	6284	6330	6281	6193	6056	6079	6367	6331	6449	6649	6669	6525	6495	6282
SRDG	GT04	0	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 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	HY01	12	13	12	12	13	13	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21	21	21
BSIA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	20	20	20	20	20	20	20	20	20	20	20	20
BSIA	HY03	12	12	12	12	12	12	12	12	12	12	12	12	12	23	23	22	22	22	22	22	22	22	22	22	22
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HTRG	HY01	63	63	62	62	62	62	62	62	63	62	63	63	63	63	62	63	63	63	63	63	63	62	62	63	63
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY02	24	24	24	24	25	24	24	24	24	24	24	24	24	24	23	24	24	38	38	38	38	38	38	38	38

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		
KNRG	HY03	22	23	23	23	23	23	23	23	23	23	23	23	22	22	22	36	36	36	36	36	36	36	36	36	36	
KNYR	HY01	100	100	100	100	100	100	100	100	59	60	60	60	100	100	60	59	101	100	100	100	100	100	100	99	100	
KNYR	HY02	104	104	104	104	104	104	104	104	62	61	62	62	102	102	62	61	104	103	103	103	103	103	103	103	104	
KNYR	HY03	101	101	101	101	101	101	100	100	60	60	60	60	101	101	60	60	102	102	102	102	102	102	101	101	103	
KNYR	HY04	61	61	61	62	62	62	61	61	61	62	62	61	99	99	66	61	100	99	99	99	99	99	95	95	0	
LPIA	HY01	18	18	18	18	18	17	17	17	17	17	17	17	16	16	16	16	18	19	19	19	19	18	18	17	17	
LPIA	HY02	15	18	18	18	18	17	17	17	17	17	17	17	15	15	16	16	16	18	18	18	18	16	16	16	16	
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	
PGAU	HY01	21	21	21	21	21	22	22	22	22	22	22	22	22	22	21	22	22	22	22	22	22	23	22	22	21	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	0	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	34	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	81	81	81	81	81	82	32	32	34	33	81	-1	-1
TMGR	HY02	36	36	0	0	0	0	0	0	0	0	0	0	85	85	85	85	85	84	84	34	35	35	37	86	0	0
TMGR	HY03	41	82	52	44	83	48	58	44	57	62	46	75	83	43	43	41	42	81	60	77	63	41	39	41	48	48
TMGR	HY04	33	33	33	33	33	-1	-1	-1	-1	-1	-1	-1	81	81	81	81	81	81	81	31	31	31	34	81	33	33
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	89	94	90	-1	-1	-1	-1	-1	-1	90	94	-1	-1
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	
UPIA	HY02	4	5	5	5	5	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		756	802	700	693	734	696	657	643	557	539	525	553	720	699	540	530	699	1100	1103	1129	1112	998	994	996	895	736
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	14	15	16	22	21	23	29	0
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	12	14	16	26	31	27	31	20	32	0
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	14	11	13	32	6	4	7	17	0
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	8	19	38	19	23	40	37	49	0
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	8	15	21	19	21	25	36	24	0
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	6	13	14	15	15	17	20	19	17	0
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	5	16	21	14	13	44	7	11	9	0
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	8	12	6	11	21	6	6	7	0
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	24	26	15	24	23	28	23	31	0
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13	25	38	30	49	90	16	12	15	45	0
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	17	15	15	7	9	15	14	19	0
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	11	11	23	3	8	5	5	11	0
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	41	36	33	30	38	80	100	100	43	0
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	12	8	11	5	13	25	30	30	21	0
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	15	23	18	26	38	36	50	40	0
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	26	28	32	39	67	76	82	79	0
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	16	16	21	26	52	53	84	81	116	96	0
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	25	18	25	51	35	51	29	22	0
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	7	12	17	18	36	31	32	40	0
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	9	9	14	15	20	26	25	29	0
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	6	8	16	22	27	30	27	30	0
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	109	220	313	376	441	532	665	646	742	682	713

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																								
KHTC	BLK1	5	5	3	3	4	3	4	3	2	4	3	3	4	5	4	3	2	0	0	0	0	0	3	2	1	1	0	0	0	0	0	0	0	0	0	0	1	4	4	3	3	4	3	2	5	4	4	
PCUF	CUFG	14	14	13	15	14	13	13	13	14	14	14	15	14	14	13	12	13	13	15	14	13	14	14	12	13	14	13	15	14	14	14	13	13	14	13	12	14	13	14	14	12	13	13	13	14			
PCUF	CUFK	5	5	3	6	5	7	4	3	5	6	4	5	5	10	27	27	25	26	25	27	25	28	25	26	26	27	27	27	26	26	28	26	26	26	25	28	27	23	27	27	27	27	25	26	26	25	25	
Total Co-Gen		24	24	19	24	23	23	21	19	21	24	21	23	23	29	44	42	40	39	38	42	39	41	39	43	40	40	42	40	42	39	41	42	40	40	39	38	42	41	39	45	43	44	45	40	41	44	42	43
Total Gen		15271	14874	14497	14198	13997	13784	13717	13435	13197	13124	13115	13134	13359	13536	13308	13281	13645	14641	15317	15868	16298	16594	16759	16797	16601	16250	16132	16629	16819	17208	17225	17299	17408	17364	17042	16341	15959	15670	16084	16693	16827	16664	16429	16226	15880	15780	15635	15378
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			
TIE-HVDC		-31	-30	-31	-28	-30	-30	-29	-31	-31	-28	-30	-28	-31	-30	-28	-30	-30	-100	-98	-98	-98	-96	-97	-97	-96	-97	-97	-99	-96	-99	-97	-97	-97	-99	-98	-97	-99	-97	-99	-96	-98	-98	-97	-99	-30	-29	-29	
TIE-PLTG		9	-19	14	-23	-50	-23	72	45	-15	16	18	20	3	57	-8	6	20	46	100	31	78	91	107	71	55	46	46	72	83	83	115	108	61	124	119	67	61	109	179	89	131	89	77	99	60	28	20	52
Interconnection		-21	-49	-17	-50	-80	-53	43	14	-46	-12	-12	-8	-28	27	-36	-24	-11	-54	1	-67	-20	-6	10	-26	-41	-50	-51	-27	-14	-16	18	11	-36	28	20	-32	-36	10	82	-10	34	-9	-20	2	-39	-2	-9	23
System Total		15292	14923	14514	14248	14077	13837	13674	13421	13243	13136	13127	13142	13387	13509	13344	13305	13656	14695	15316	15935	16318	16600	16749	16823	16642	16300	16183	16656	16833	17224	17207	17288	17461	17356	17043	16394	16017	15682	16023	16722	16817	16695	16472	16246	15942	15805	15664	15378
SRev ST-Coal		335	349	353	422	539	549	575	647	653	641	639	648	637	653	645	601	597	594	423	296	265	266	170	150	144	137	145	151	143	157	149	151	138	83	82	77	93	80	92	42	73	63	62	80	83	68	94	315
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	5	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		895	768	907	774	874	747	759	920	744	749	750	704	753	841	978	955	667	703	585	385	508	725	755	968	1107	1290	967	899	760	674	674	778	808	1050	1475	1734	1953	1497	940	780	877	970	1181	1260	1278	1380	1309	
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	
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		302	302	390	390	390	390	478	478	327	478	478	478	478	478	478	478	151	151	151	151	338	338	338	338	338	187	338	338	151	151	151	151	151	151	151	151	151	151	151	151	151	338	187	338	338	426	426	
Hydro		531	485	412	419	378	416	343	357	594	461	475	447	280	301	460	470	301	374	371	345	362	289	293	291	392	551	683	431	332	346	345	444	429	412	418	330	327	328	320	288	392	487	444	564	435	435	362	323
S.Reserve Total		2063	1904	2062	2005	2181	2102	2155	2402	2318	2329	2342	2323	2099	2185	2424	2527	2331	1786	1648	1377	1163	1401	1526	1534	1842	2133	2305	1887	1712	1419	1321	1422	1497	1454	1701	2033	2305	2512	2060	1421	1396	1578	1814	2012	2116	2119	2262	2373