

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,989 MW
Distillate	0 MW
Total TNB	1,989 MW
Total IPP	19,172 MW
Total Co-Gen	0 MW
Total System	24,788 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,975	5.80 %
Gas	51,018	14.11 %
Total TNB	71,993	19.91 %
ST-Coal	187,311	51.81 %
LSS	5,770	1.60 %
Gas	95,265	26.35 %
Total IPP	288,346	79.76 %
Co-Gen	814	0.23 %
Total Co-Gen	814	0.23 %
Total Generation	361,153	99.89 %
PLTG	1,304	0.36 %
HVDC	-1,685	-0.47 %
Interconnection	-381	-0.11 %
Net Energy	361,534	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	18,673 MW
TNB Generation	3,449 MW
IPP Generation	14,143 MW
Spinning Reserve	1,039 MW
Maximum Demand	17,665 MW
Net Energy	361,534 MWH
Load Factor	85.28 %

Fuel Cost

Total Cost:	108,458,338.44 RM
Cost per Unit	29.99 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	580
Hydro	305
Syncon	371
Thermal	242
Total	1,498

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Rainy	28

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	1
TJGS	92
Total TNB	121
CBPS	42
EMPP	303
NPRI	78
PCGP	88
PLPS	64
SKSP	49
SPGP	210
Total IPP	834
Total Gas	956
Total Gas Required	956

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	13424	12820	12489	12085	11962	11898	12290	12531	13072	15269	15857	16361	16306	16113	16788	17221	17567	17170	16227	16376	17109	16913	16521	15994

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 5, 2022 9:10:41 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

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	213	214	215	215	215	215	216	214	214	215	216	214	215	214	214	214	213	214	328	553	706	690	687	616	357	352	354	452	518	518	706	706	705	705	703	706	704	701	703	702	702	704	378	208	214				
JMHE	U001	899	853	855	850	852	799	800	802	799	798	801	800	798	803	800	801	799	942	977	981	980	976	980	978	983	979	979	977	983	979	973	981	977	979	980	983	978	980	981	979	979	981	982	978	980	982	980	976	
JMHE	U002	899	853	853	850	799	754	500	500	501	498	501	499	497	734	749	787	798	936	980	976	981	977	980	975	984	980	983	977	983	980	976	981	981	979	980	983	975	979	978	977	980	982	979	979	980	980	979	979	
JMJG	U001	520	513	469	416	420	420	417	420	417	420	420	417	419	418	420	438	536	613	689	682	679	682	682	682	685	686	682	681	682	682	680	678	685	682	673	673	673	670	628	594	675	678	675	596	649	674	675		
JMJG	U002	685	682	685	688	683	672	673	675	674	676	673	677	670	673	677	675	679	675	667	673	664	670	668	672	671	672	670	670	668	671	667	668	670	673	669	664	672	669	671	547	576	574	583	579	576	577	588	585	
JMJG	U003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	233	364	425	482	553	545	551	556	620	677	673	674	676	677	677	674	677	590	676	672	671	677	671	667	672	672		
JMJG	U004	900	858	850	853	829	807	803	803	804	804	807	805	805	806	804	805	804	843	904	959	976	975	977	977	977	979	978	980	980	980	980	976	977	975	974	977	976	972	975	976	977	974	977	977	977	976	977	976	
JMJG	U005	900	847	848	849	810	800	799	800	803	796	801	800	800	799	799	799	801	878	964	977	979	972	975	972	977	975	976	973	974	976	974	975	975	973	974	977	976	974	977	978	975	977	974	972	976	973	972	977	
PKLG	U006	269	269	268	269	268	268	268	267	268	269	270	269	269	269	269	269	269	269	269	269	269	270	270	269	268	268	267	268	269	269	269	268	269	269	269	269	269	301	387	444	453	376	288	267	269	269			
TBIN	U002	381	275	216	216	213	214	214	213	213	212	213	212	213	213	211	295	457	649	696	702	694	701	703	706	702	703	700	702	703	702	702	702	704	701	702	701	702	702	702	702	703	703	702	705	703	682	482		
TBIN	U003	385	326	225	225	215	215	215	215	215	215	215	215	215	215	215	215	215	215	210	701	701	701	701	701	701	701	701	696	699	697	697	696	697	697	698	697	698	698	695	697	698	700	702	699	710	701	697	656	
TBIN	U004	874	856	854	854	814	802	803	803	805	802	802	803	803	804	804	803	803	867	874	873	871	873	874	873	874	871	873	872	872	876	873	872	874	872	872	875	873	873	874	872	871	874	872	873	873	871	873	871	
Total ST-Coal		6925	6546	6338	6285	6118	5966	5707	5714	5713	5704	5717	5714	5702	5949	5964	6018	6206	7394	7888	8000	8016	8169	8594	8873	8939	8979	8987	8694	8713	8722	8865	8999	8989	9186	9185	9178	9175	9165	9175	8951	9116	9259	9276	9189	9036	8724	8571	8332	
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	0
CBPS	BLK2	261	267	266	266	265	201	256	201	201	199	201	201	234	273	269	266	274	262	252	253	266	261	259	266	248	190	193	197	266	270	265	275	275	272	265	272	240	200	224	273	264	264	264	266	265	270	263	260	
EMPP	BLK1	674	713	550	710	652	703	641	653	700	628	652	693	707	717	623	602	713	612	578	607	698	692	671	688	607	643	577	704	717	699	684	711	712	711	686	697	683	700	710	711	689	689	689	693	686	711	686	673	
EMPP	BLK2	709	714	710	710	658	703	660	670	708	635	654	697	708	718	624	616	713	701	693	690	709	705	688	700	629	665	591	708	716	709	700	711	711	712	701	712	699	706	710	711	703	704	704	706	703	711	699	692	
EMPP	BLK3	691	715	687	710	710	705	698	708	710	695	710	709	708	717	684	683	713	685	668	670	699	690	673	686	610	645	577	705	716	699	684	709	712	711	685	698	683	699	711	711	690	689	687	693	686	711	685	671	
GLGR	GT02	92	91	91	91	91	91	91	92	91	91	92	91	92	91	92	91	91	91	91	91	91	91	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	106	106	106	106		
GLGR	ST1C	40	42	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40	39	41	40	41	40	41	40	46	43	40	41	45	45	45	45		
NPRI	BLK2	514	520	518	520	518	520	520	520	520	350	346	348	350	511	526	518	516	526	508	502	498	516	511	499	510	514	504	513	513	523	515	509	520	522	518	510	520	509	305	520	524	512	511	515	510	520	508	503	
PCGP	PGRG	591	607	603	604	600	602	601	603	602	591	602	600	601	614	600	594	612	584	568	563	598	587	566	583	588	572	580	590	617	592	580	602	607	601	585	602	581	598	601	611	586	587	585	590	585	601	580	572	
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	59	139	141	138	65	66	63	60	61	66	68	115	131	135	134	135	111	66	62	66	66	145	137	130	113	138	139	141	136	134		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	115	70	70	66	65	65	70	74	118	135	139	137	139	101	70	66	69	70	149	142	133	117	142	141	145	140	139		
PLPS	GT13	0	0	0	0	0	0	0	0	0	62	44	43	48	54	144	126	128	120	117	121	127	123	63	64	60	59	60	65	67	112	127	131	129	132	106	65	60	64	65	110	135	127	109	134	134	137	132	132	
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	22	25	58	57	61	60	57	140	139	193	153	144	142	135	132	138	140	186	207	209	208	207	196	142	140	141	141	195	208	208	195	208	207	209	209	208	
SKSP	BLK1	219	259	220	219	218	214	218	213	216	217	210	219	217	220	221	220	219	222	217	215	216	218	241	219	218	219	219	219	228	232	305	294	317	338	337	333	230	218	218	217	339	335	335	334	330	341	331	333	
SPGP	BLK1	720	728	725	724	725	726	725	726	726	722	726	724	724	727	725	720	731	713	707	705	722	719	705	717	719	707	713	719	724	718	712	722	723	721	710	726	715	723	726	728	716	717	717	719	717	726	713	709	
SPGP	BLK2	718	727	723	724	723	725	726	724	725	720	725	724	725	727	722	717	725	713	705	703	721	718	702	715	717	697	702	710	717	714	708	718	719	719	705	724	712	715	725	722	714	711	715	717	711	723	710	706	
TJGS	GT2A	132	132	169	131	130	130	133	131	132	132	132	132	154	151	147	129	132	219	217	217	169	169	204	130	130	130	130	130	150	186	187	187	217	217	217	21													

Daily MW Generation on Monday

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	
KNYR	HY01	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	96	97	97	97	97	
KNYR	HY02	99	99	99	99	98	99	99	99	99	99	99	99	98	99	98	98	98	99	98	98	99	99	98	98	
KNYR	HY03	102	102	102	102	101	101	101	100	100	100	101	101	102	102	102	102	102	102	101	101	100	100	100	102	
KNYR	HY04	101	102	101	101	101	101	101	101	101	101	101	102	101	101	102	101	100	100	101	102	102	102	102	101	
LPIA	HY01	16	16	16	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	16	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	15	15	15	15	15	
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	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	20	-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	31	31	31	31	31	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	12	17	17	17	17	17	17	17	17	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	0	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	0	81	81	81	34	34	29	33	-1	-1	-1	-1	80	
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	82	81	33	33	28	32	34	31	32	85	85	
TMGR	HY03	32	82	82	2	0	0	0	0	0	0	0	0	81	78	78	81	82	77	81	35	32	33	80	80	
TMGR	HY04	74	82	41	56	42	56	72	41	42	41	43	61	83	42	41	83	40	38	37	78	61	38	41	42	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	88	93	95	93	88	
Total Hydro		750	805	763	676	659	673	689	657	679	657	658	660	679	700	660	618	703	1027	1004	1002	952	937	864	880	692
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	5	8	12	15	17	20	24	25	24	26	27
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	13	14	15	16	18	24	35	38	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	13	18	23	17	27	25	29	31	23	29
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	11	15	28	30	28	35	40	24	43
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	19	28	20	30	38	40	39	37	48
GELS	LSS1	0	0	0	23	0	25	0	0	23	0	0	0	0	1	3	5	7	15	14	17	16	14	16	14	21
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	21	29	26	26	34	33	50	50	35	48
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	17	18	24	25	25	28	30	30	29
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	15	19	28	26	19	25	23	18	42
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	17	33	43	55	49	72	57	90	79	91	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	13	22	27	27	26	37	43	31	27	29
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	12	20	15	23	23	27	21	10	12
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	14	43	49	50	46	84	82	83	92	100	100
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	6	17	10	27	24	25	28	26	29
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	21	26	24	32	42	34	50	36	50
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	22	48	53	79	95	94	83	83	98	94	98
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	10	14	26	22	42	45	45	36	35
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	9	18	23	31	36	38	39	40	42	44
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	14	19	11	12	27	22	22	20	18
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	22	30	24	30	30	30	22	22	25
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	20	92	214	371	478	541	634	727	718	812	774	830
KHTC	BLK1	3	3	1	3	3	3	2	4	1	4	2	2	2	3	4	2	2	0	0	0	0	0	0	0	0
PCUF	CUFG	15	15	16	16	16	16	15	16	15	15	16	16	16	15	16	15	15	15	15	15	15	15	16	15	15
PCUF	CUFK	26	4	4	4	3	6	4	5	4	3	4	5	5	5	5	4	28	27	27	25	26	27	26	26	27
Total Co-Gen		44	22	21	23	22	25	22	23	23	18	23	22	23	22	19	43	42	42	40	41	43	42	42	41	43

Daily MW Generation on Monday

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 Gen		13401	13210	12804	12752	12448	12344	12046	11995	11934	11777	11861	11938	12245	12624	12460	12376	13026	14653	15218	15615	15796	16176	16343	16521	16250	16217	16082	16470	16752	17098	17185	17443	17500	17634	17186	16757	16248	15946	16317	17055	17145	17125	16933	16730	16519	16343	15993	15688		
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	0	0	0
TIE-HVDC		-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-30	-30	-30		
TIE-PLTG		25	1	30	-17	2	-7	4	-17	25	58	20	48	12	28	-13	-24	8	87	60	92	48	54	91	58	57	77	81	93	80	48	83	33	40	80	134	98	140	89	52	79	156	106	140	64	108	33	50	15		
Interconnection		-5	-29	0	-47	-28	-37	-26	-47	-5	28	-10	18	-18	-2	-43	-54	-22	-12	-39	-7	-51	-45	-8	-41	-42	-21	-18	-6	-19	-51	-16	-66	-59	-19	35	-1	41	-10	-47	-20	57	7	41	-35	10	3	20	-15		
System Total		13424	13250	12820	12811	12489	12395	12085	12066	11962	11775	11898	11944	12290	12649	12531	12458	13072	14691	15269	15634	15857	16241	16361	16574	16306	16259	16113	16488	16788	17170	17221	17530	17567	17665	17170	16777	16227	15976	16376	17094	17109	17140	16913	16787	16521	16349	15994	15724		
SRev ST-Coal		689	681	724	773	716	737	742	738	738	744	737	739	741	741	734	798	883	593	351	258	241	302	354	162	234	193	221	305	281	362	322	252	261	177	179	186	189	198	188	421	257	124	107	171	212	276	260	357		
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 CCGT-Gas		668	513	668	582	701	670	722	749	831	1095	1030	951	726	614	754	871	565	714	777	668	683	575	884	990	1234	1255	1433	1003	794	517	533	369	259	272	492	660	1050	1213	876	257	334	373	445	330	353	221	376	435		
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	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	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	0
Syncon		580	580	580	580	580	580	580	580	429	492	492	492	580	580	492	580	492	217	464	464	464	464	464	464	552	401	552	552	464	277	277	277	277	277	277	464	464	464	464	277	126	198	253	464	552	552	552	552		
Hydro		322	117	159	135	152	138	122	154	283	155	154	152	132	111	152	193	109	283	214	216	266	281	308	292	392	559	428	220	148	313	345	336	294	313	327	167	170	219	154	220	364	390	368	342	290	232	278	283		
S.Reserve Total		2259	1891	2131	2070	2149	2125	2166	2221	2281	2573	2500	2421	2179	2046	2219	2442	2136	1807	1806	1606	1654	1622	2010	1908	2412	2408	2634	2080	1687	1469	1477	1234	1091	1039	1275	1477	1873	2094	1682	1175	1081	1122	1292	1307	1407	1281	1466	1627		