

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,260 MW
Distillate	0 MW
Total TNB	2,260 MW
Total IPP	18,292 MW
Total Co-Gen	0 MW
Total System	23,424 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,059	5.75 %
Gas	33,441	9.59 %
Total TNB	53,500	15.34 %
ST-Coal	185,220	53.12 %
LSS	6,085	1.75 %
Gas	103,049	29.55 %
Total IPP	294,354	84.42 %
Co-Gen	1,278	0.37 %
Total Co-Gen	1,278	0.37 %
Total Generation	349,132	100.13 %
PLTG	2,100	0.60 %
HVDC	-1,651	-0.47 %
Interconnection	449	0.13 %
Net Energy	348,683	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:	20:00:00 Hour
Total Set On Bus	17,582 MW
TNB Generation	2,995 MW
IPP Generation	13,408 MW
Spinning Reserve	1,123 MW
Maximum Demand	16,469 MW
Net Energy	348,683 MWH
Load Factor	88.22 %

Fuel Cost

Total Cost:	108,693,277.00 RM
Cost per Unit	31.09 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	852
Hydro	172
Syncon	776
Thermal	406
Total	2,206

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Cloudy	23

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	2
TJGS	87
Total TNB	119
CBPS	38
EMPP	307
NPRI	74
PCGP	89
PGLA	87
PLPS	43
SKSP	45
SPGP	108
Total IPP	789
Total Gas	908
Total Gas Required	908

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	15290	14514	14099	13430	13020	12808	12945	12836	12584	13625	14292	14680	14674	14505	14930	15196	15454	15247	15042	15403	16469	16188	15967	15650

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 5, 2022 9:22:00 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

		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	691	707	706	441	381	211	215	214	214	213	213	213	213	211	213	214	214	215	214	377	565	686	703	705	704	707	705	705	705	703	705	705	705	705	705	705	704	706	705	704	706	705	704	705	704	705		
JMAH	U002		702	457	351	212	215	213	212	213	213	213	214	213	214	212	213	213	214	214	214	214	214	215	214	213	367	598	703	704	705	703	699	703	698	695	697	693	690	690	695	693	694	696	693	694	696	693	694		
JMHE	U001		972	966	930	930	933	866	868	874	871	869	826	799	799	799	798	804	800	803	948	949	948	949	948	948	951	949	947	949	971	976	979	976	976	976	972	978	978	975	978	978	978	978	978	978	981	976	975	973	976
JMJG	U001		681	672	680	673	677	677	674	671	676	677	672	671	669	675	671	629	596	596	601	598	598	596	596	601	601	581	571	576	571	580	579	593	596	596	667	668	667	673	672	673	670	671	673	672	673	668	672	674	
JMJG	U002		675	676	674	670	672	678	672	673	682	689	680	682	677	678	676	634	601	599	596	596	608	606	599	600	601	585	580	587	581	578	584	602	599	601	666	673	677	674	674	677	673	673	674	678	673	671	670		
JMJG	U003		651	655	640	648	649	649	641	640	650	644	647	648	640	646	641	601	596	598	596	590	595	594	600	597	598	581	578	582	579	585	573	600	595	597	631	645	645	648	647	644	647	643	648	637	662	678	673	673	
JMJG	U004		978	975	928	932	930	915	883	873	873	870	864	810	803	808	804	804	804	804	810	869	926	939	948	948	951	949	948	949	958	977	975	977	978	976	976	977	974	977	972	976	976	977	976	977	975	977	977	977	
JMJG	U005		972	971	930	926	927	886	876	867	867	876	844	798	796	801	801	800	797	800	801	797	799	799	805	800	800	806	801	793	798	804	796	881	909	980	979	973	977	974	976	975	980	977	972	972	975	973	972	975	
TBIN	U002		700	699	701	700	701	701	702	699	701	701	700	700	698	701	701	701	701	700	702	701	699	700	700	700	698	699	700	701	697	697	699	698	699	699	698	697	699	699	701	699	698	700	701	700	701	700	697	700	
TBIN	U003		698	698	699	699	700	697	697	501	265	206	211	210	211	211	212	211	212	254	408	566	701	698	697																										

Daily MW Generation on Saturday

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	
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	
KNRG	HY02	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
KNYR	HY01	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
KNYR	HY02	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	
KNYR	HY03	103	103	103	102	102	101	101	101	101	101	102	102	103	60	103	103	103	102	102	101	101	100	101	102	
KNYR	HY04	101	101	101	101	101	101	101	101	101	101	101	59	100	101	100	100	100	100	100	101	101	100	100	100	
LPIA	HY01	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LPIA	HY02	15	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	15	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	13	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	9	-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	30	30	30	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	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	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	0	
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	32	33	81	81	81	81	80	80	80	80	80	80	80	
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	86	86	86	85	86	85	85	86	86	85	85	85	85	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	30	31	32	32	32	32	81	81	80	81	81	80	81	
TMGR	HY04	47	41	80	40	80	80	52	52	46	55	73	41	80	65	80	77	43	80	40	39	59	78	41	42	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	92	-1	-1	-1	94	84	86	-1	-1	-1	-1	-1	
UJLI	HY02	-1	-1	93	88	-1	-1	-1	-1	-1	-1	92	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	95	91	-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	
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		611	584	709	663	630	613	585	599	578	588	606	678	719	700	623	501	571	719	731	733	801	843	805	803	
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	4	6	9	11	15	17	18	20	23	25	11	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	14	17	16	29	30	35	25	30	18	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	7	17	14	27	18	21	8	32	17	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	7	11	14	18	20	37	45	40	45	46	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	19	25	27	28	36	36	34	47	46	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	12	14	18	12	28	28	29	27	30	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	2	5	6	16	6	14	17	15	18	24	14	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	9	18	24	30	42	46	36	14	17	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	8	4	17	45	53	66	57	57	18	90	71	89	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	9	4	7	21	15	34	40	36	43	26	22	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	18	30	38	64	34	100	86	93	71	100	100	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	8	12	16	13	30	30	25	23	30	23	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	15	14	27	33	29	40	47	45	44	48	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	17	42	31	81	87	65	67	75	75	87	84	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	20	35	57	67	77	93	108	84	106	111	111	88	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	19	26	32	34	34	44	52	13	20	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	17	19	21	28	34	37	34	38	32	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	14	14	16	21	26	19	26	29	29	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	12	17	23	25	22	27	30	30	30	30	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	27	144	230	335	527	551	696	775	795	733	836	799	733

Daily MW Generation on Saturday

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	1	5	4	4	1	2	2	4	1	3	3	4	2	3	2	3	2	2	3	4	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	1	3	3	2	2	3		
PCUF	CUFG	17	18	19	18	21	22	22	24	25	26	26	27	25	26	23	26	27	25	24	25	27	25	25	24	26	28	29	25	24	26	27	26	28	25	25	27	28	26	27	27	26	27	25	25	25	26	24	26	
PCUF	CUFK	27	26	28	27	27	26	27	25	28	28	25	28	25	27	26	27	28	27	27	26	26	27	26	25	28	27	27	25	25	27	27	28	27	26	27	29	25	26	27	27	27	26	25	27	28	27	27	27	
Total Co-Gen		45	49	51	49	49	50	51	53	54	57	54	59	52	56	51	56	57	54	54	55	55	54	52	50	54	55	56	50	49	53	54	54	55	51	52	56	53	52	54	56	56	55	51	55	56	55	53	56	
Total Gen		15327	14954	14528	14272	14074	13806	13446	13289	13030	13011	12813	12837	12975	12894	12834	12505	12534	13222	13638	14000	14369	14607	14699	14865	14618	14471	14458	14694	14929	15014	15152	15287	15392	15525	15305	15142	15017	14946	15445	16395	16459	16346	16201	16059	15945	15771	15596	15360	
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			
TIE-HVDC		-100	-30	-30	-30	-30	-30	-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		
TIE-PLTG		158	75	65	116	26	45	67	44	61	76	56	75	81	58	49	20	1	28	64	111	128	143	137	127	65	76	75	54	121	103	76	84	54	93	179	128	91	116	157	170	109	117	132	131	99	43	64	52	
Interconnection		58	45	35	86	-4	15	37	14	31	46	26	45	51	28	19	-10	-29	-2	34	81	98	113	38	28	-34	-22	-24	-45	22	4	-23	-15	-45	-5	80	29	-8	18	58	71	10	19	33	32	0	-56	-35	-47	
System Total		15290	14930	14514	14207	14099	13812	13430	13296	13020	12986	12808	12813	12945	12887	12836	12536	12584	13245	13625	13940	14292	14515	14680	14858	14674	14516	14505	14762	14930	15032	15196	15314	15454	15547	15247	15134	15042	14947	15403	16347	16469	16348	16188	16048	15967	15848	15650	15428	
SRev ST-Coal		110	215	326	335	386	460	478	555	532	528	553	610	626	612	621	742	769	734	649	657	566	555	541	541	536	553	496	487	456	437	357	348	338	270	155	127	128	121	118	119	119	121	114	127	135	131	146	131	
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	35	3	37	68	0	0	0	0	0
SRev CCGT-Gas		1381	938	914	1024	857	910	1018	980	1003	979	1092	963	853	956	921	1037	1116	740	787	823	753	710	670	520	876	1311	1386	1119	1092	1303	1161	1140	1092	981	1223	1199	1187	1163	948	400	385	437	409	400	560	664	821	771	
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
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		928	928	741	741	777	928	928	777	928	928	928	741	741	741	928	928	777	741	741	741	928	928	928	928	777	928	928	928	777	928	928	741	741	741	928	928	928	590	302	302	302	676	676	525	676	676	676	676	
Hydro		88	71	123	169	166	32	60	197	67	57	39	154	113	132	22	144	225	113	275	273	105	111	149	151	280	82	82	68	80	211	80	80	137	135	175	80	75	78	312	334	314	338	109	193	331	203	204	142	
S.Reserve Total		2507	2162	2104	2269	2186	2330	2484	2509	2530	2492	2612	2468	2333	2441	2492	2851	2887	2328	2452	2494	2352	2304	2288	2140	2469	2874	2892	2602	2556	2728	2526	2496	2308	2127	2294	2334	2318	2290	1968	1190	1123	1235	1376	1396	1551	1674	1847	1720	