

Daily System Generation Summary on Friday

Friday, November 18, 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	18,996 MW
Total Co-Gen	0 MW
Total System	25,169 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,196	5.23 %
Gas	50,416	15.34 %
Total TNB	67,612	20.57 %
ST-Coal	172,593	52.51 %
LSS	4,777	1.45 %
Gas	84,190	25.61 %
Total IPP	261,560	79.58 %
Co-Gen	797	0.24 %
Total Co-Gen	797	0.24 %
Total Generation	329,969	100.39 %
PLTG	1,024	0.31 %
HVDC	255	0.08 %
Interconnection	1,279	0.39 %
Net Energy	328,690	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:	19:30:00 Hour
Total Set On Bus	18,022 MW
TNB Generation	2,885 MW
IPP Generation	12,575 MW
Spinning Reserve	2,524 MW
Maximum Demand	15,493 MW
Net Energy	328,690 MWH
Load Factor	88.40 %

Fuel Cost

Total Cost:	115,435,896.94 RM
Cost per Unit	34.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,421
Hydro	185
Syncon	966
Thermal	521
Total	3,093

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	45
TJGS	89
Total TNB	134
CBPS	37
EMPP	271
NPRI	120
PCGP	86
PLPS	37
SPGP	206
Total IPP	758
Total Gas	892

Total Gas Required 892

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	14833	14177	13594	13092	12806	12574	12567	12180	11729	12335	12964	13263	13498	13494	13748	14144	14263	14148	14001	14899	15412	15171	14710	14515

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, December 2, 2022 3:41:59 PM
(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

		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		U002	679	499	504	501	503	507	659	714	705	704	704	707	706	705	706	707	706	704	707	703	707	703	706	705	704	707	705	704	707	705	704	706	700	708														
JMHE		U001	980	972	975	900	852	853	847	849	847	848	801	802	801	800	800	801	800	870	870	868	872	869	872	870	869	870	900	899	901	900	898	901	900	900	977	974	971	973	973	973	969	968						
JMHE		U002	974	978	979	901	848	850	848	851	848	846	800	802	803	801	802	803	800	801	800	872	871	872	871	870	868	870	903	901	902	902	899	902	900	900	964	972	974	972	974	973	971	966						
JMJG		U001	644	645	646	649	645	643	647	652	648	648	643	651	645	649	648	646	653	649	641	649	649	647	645	644	646	653	647	648	649	646	643	647	645	647	647	646	648	651	651	646	645	645	643					
JMJG		U002	674	667	673	668	671	668	671	671	671	673	668	666	666	670	667	670	672	667	671	676	670	672	667	669	672	670	665	670	669	667	673	670	678	668	667	668	671	668	673	672	669	670	671	672				
JMJG		U003	661	676	666	668	666	672	668	673	663	670	671	667	666	661	673	662	667	668	668	673	665	673	671	663	668	668	667	661	654	609	667	665	667	664	678	662	672	669	665	667	673	661	664	669	663	666	665	
JMJG		U005	973	974	922	900	876	852	850	848	850	850	801	800	801	803	799	801	801	798	800	798	801	871	872	870	874	871	874	870	869	865	863	867	906	901	903	903	898	900	900	900	982	975	972	971	974	972	973	972
PKLG		U003	150	150	150	150	151	150	150	150	151	151	152	151	150	151	150	151	150	150	150	151	150	153	151	152	151	150	150	150	150	179	249	280	282	275	279	277	277	278	276	278	200	151	148	150				
PKLG		U005	269	269	269	269	269	268	267	271	269	268	271	269	268	269	268	269	267	269	267	269	267	267	267	269	269	269	269	269	283	382	450	455	467	469	468	459	457	446	464	468	395	317	268	269				
PKLG		U006	268	267	269	269	269	268	270	269	269	270	268	269	267	269	268	267	269	268	267	269	268	267	271	268	269	269	291	375	439	449	449	449	449	446	446	449	383	284	267	270								
TBIN		U001	689	482	279	208	213	212	213	212	211	211	213	212	212	211	212	212	213	213	211	211	211	211	210	213	212	212	211	329	493	703	698	700	698	690	698	699	697	700	695	699	698	699	699	698	700			
TBIN		U002	211	212	213	213	213	212	213	215	214	214	214	213	214	213	216	216	214	214	214	213	215	214	214	214	214	213	215	214	214	215	213	267	419	583	682	705	701	700	703	701	702	701	702	700	700			
TBIN		U003	212	212	213	212	213	212	210	212	211	209	211	213	212	212	213	212	212	211	212	212	212	211	212	212	211	211	212	211	211	211	211	239	329	511	699	699	698	698	700	700	698	700	699	699	493	266		
Total ST-Coal			7384	7003	6758	6508	6389	6368	6510	6587	6557	6561	6419	6421	6417	6412	6422	6416	6428	6408	6417	6411	6425	6624	6637	6613	6636	6627	6626	6615	6615	6719	6841	7111	7208	7349	7847	8368	8650	8689	8679	8675	8897	8891	8894	8902	8686	8454	8169	7949
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	
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	
CBPS		BLK2	357	361	361	361	334	203	201	201	191	183	201	201	201	201	196	197	201	202	201	198	200	199	199	201	201	199	201	201	202	201	196	199	201	201	192	189	201	201	201	195	202	198	201	203	201	201	200	
EMPP		BLK1	690	709	701	704	703	713	708	710	679	666	412	413	410	409	409	411	410	412	410	409	409	409	411	443	410	410	514	481	695	708	636	642	597	704	452	397	394	674	623	620	644	654	615	411	412	413	414	409
EMPP		BLK2	689	709	705	700	698	713	707	709	680	666	687	646	645	709	409	411	410	408	410	408	540	544	509	709	625	638	658	709	708	709	708	696	696	709	547	397	683	409	629	614	642	653	611	413	412	559	701	701
EMPP		BLK3	691	709	706	700	697	712	706	709	680	666	709	710	708	708	630	411	410	411	411	557	709	709	710	710	697	709	709	710	709	708	709	697	695	710	691	711	394	618	627	615	642	655	613	649	695	706	709	710
GLGR		GT01	68	67	67	68	67	67	66	66	65	66	67	67	66	67	67	68	68	67	67	67	65	67	67	65	66	65	65	67	64	67	67	66	67	68	68	68	67	68	69	69	67	68	67	67	67	69	67	
GLGR		GT02	67	66	67	67	68	66	67	67	67	66	67	67	66	67	67	66	67	67	66	67	66	66	66	66	66	66	66	66	66	66	66	66	65	65	65	65	65	65	65	65	64	66	65	65	65	68		
GLGR		ST1C	70	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	70	71	70	71	70	71		
NPRI		BLK1	502	520	518	518	510	529	388	329	316	305	331	331	329	331	324	325	329	332	329	323	329	328	327	329	329	328	328	330	330	331	330	323	327	329	331	318	313	329	331	529	322	337	325	373	340	330	331	329
NPRI		BLK2	509	527	521	526	518	534	395	337	323	311	337	338	338	337	332	334	339	341	339	333	334	335	335	336	338	335	338	337	336	346	335	334	335	338	337	325	320	340	338	528	331	344	333	385	344	338	343	336
PCGP		PGRG	588	604	602	603	602	608	601	599	575	549	605	603	603	604	590	521	408	556	601	593	596	599	597	601	599	599	600	602	600	605	600	592	597	601	602	527	400	402	604	603	586	605	593	602	608	602	605	598
PLPS		GT13	128	128	127	128	129	128	127	127	127	128	128	127	127	128	128	127	127	128	127	128	127	128	127	128	127	127	128	127	128	128	128	127	128	128	128	127	128	128	127	127	128	127	128	128	127	128		
PLPS		ST18	58	58	58	59	59	58	58	58	58	59	58	58	59	59	58	59	58	58	58	58	58	58	58	59	58	59	58	59	58	58	58	58	58	58	58	58	58	58	59	59	59	58	58	58	58	59		
SPGP		BLK1	710	718	717	718	715	720	716	719	703	689	719	719	719	718	714	717	719	718	715	715	714	712	713	714	712	713	716	715	716	715	705	711	716	712	701	697	378	713	719	707	719	718	718	722	718	719	718	
SPGP		BLK2	708	718	717	718	713	723	715	717	700	687	717	718	717	717	709	711	530	719	718	713	715	713	714	715	711	716	717	717	716	722	714	708	711	717	713	665	380	636	694	620	707	719	712	720	721	717	720	718
TJGS		GT1A	100	100	100	100	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135		
TJGS		GT1B	99	97	96	134	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS		ST1C	160	143	143	160	122	81	78	75	75	75	75	75	75	75	75	75	75	75	75																													

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
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
KNYR	HY01	101	101	101	101	100	101	101	101	100	100	101	101	101	101	101	101	101	101	100	100	101	101	100	101
KNYR	HY02	102	102	102	102	102	102	102	102	102	103	102	102	102	102	102	102	102	102	103	102	102	102	102	102
KNYR	HY03	99	99	99	98	98	97	96	96	96	97	97	98	98	98	99	99	99	99	98	98	97	97	96	96
KNYR	HY04	96	97	96	96	97	97	96	96	97	96	96	96	96	96	96	96	96	96	96	96	96	97	97	96
LPJA	HY01	25	23	23	23	23	22	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	22	23	23
LPJA	HY02	25	23	23	23	22	22	22	22	22	22	22	22	22	21	21	21	21	21	20	20	22	23	23	24
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	82	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	83	112	110	108	106	104	102
SIHY	HY01	49	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	28	51	51	51	51	51	51
SIHY	HY02	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	17	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	0	0	-1	0	-1	0	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	0	-1	0
TMGR	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
TMGR	HY04	40	41	40	42	41	83	42	41	38	35	41	41	41	42	40	41	42	58	46	43	41	41	41	42
UJLI	HY01	87	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	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		867	727	724	818	723	766	621	621	617	614	621	645	623	645	623	626	626	642	628	621	619	620	617	646
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	0	0	0	0	0	0	0	0	0	0	0	0
BKLS	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
BSLS	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
CHLS	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
GBLS	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
GELS	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
GNLS	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
JELS	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
JSLS	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
KDLS	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
KKLS	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
KMLS	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
KNLS	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
KRLS	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
MCLS	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
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
PKLS	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
SPLS	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
SSLS	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
STLS	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
TBLS	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
Total 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

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		
ESTL	ESTL	23	21	21	20	20	20	24	24	24	24	25	23	24	21	22	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24		
KHTC	BLK1	2	4	2	2	3	3	3	2	2	2	3	3	4	3	3	5	2	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	3	4	2	3	1	1	1	1	3	
PCUF	CUFG	4	5	4	5	4	4	5	5	5	4	5	5	6	5	4	5	4	5	7	5	5	5	4	5	5	4	3	6	4	5	5	4	5	5	4	5	3	6	5	4	4	5	6	4	4	5	5		
PCUF	CUFK	3	3	3	5	3	4	3	4	4	4	3	4	4	4	2	3	3	4	3	6	3	3	2	4	5	2	2	4	2	3	3	3	3	3	3	4	4	3	4	5	5	2	4	3	4	4	3	3	
Total Co-Gen		32	33	30	32	30	31	35	35	35	33	37	35	38	31	32	37	34	34	40	33	32	32	30	33	34	30	32	32	31	32	32	32	31	37	38	33	36	34	37	33	33	33	33	33	35				
Total Gen		14931	14520	14223	13899	13619	13484	13162	13125	12907	12783	12648	12634	12601	12677	12242	11982	11766	12176	12310	12560	12957	13233	13337	13533	13537	13552	13654	13721	13886	14153	14194	14282	14281	14493	14227	14310	14064	14189	14943	15498	15425	15386	15210	14979	14748	14687	14580	14320	
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		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	30	30	30		
TIE-PLTG		68	12	16	23	-5	4	40	31	71	78	44	11	4	29	32	36	7	-18	-55	-31	-37	-1	44	65	9	37	130	83	108	88	78	66	46	76	107	120	91	75	72	34	41	38	67	39	67	53	35	23	
Interconnection		98	42	46	53	25	34	70	61	101	108	74	41	34	59	62	66	37	12	-25	-1	-7	29	74	95	39	67	160	113	138	60	50	38	18	47	79	92	63	47	44	5	13	10	39	11	38	83	65	53	
System Total		14833	14478	14177	13846	13594	13450	13092	13064	12806	12675	12574	12593	12567	12618	12180	11916	11729	12164	12335	12561	12964	13204	13263	13438	13498	13485	13494	13608	13748	14093	14144	14244	14263	14446	14148	14218	14001	14142	14899	15493	15412	15376	15171	14968	14710	14604	14515	14267	
SRev ST-Coal		416	550	496	674	675	672	713	659	672	664	673	669	674	676	668	674	662	672	666	670	659	673	664	673	673	664	676	681	681	684	714	594	593	599	597	492	371	337	345	351	129	135	132	124	241	247	327	325	
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	
SRev CCGT-Gas		1017	908	954	770	834	644	967	1081	1265	1388	1392	1430	1440	1374	1798	2071	2355	2008	1972	1861	1566	1560	1598	1355	1488	1466	1334	1303	1101	1060	1157	1213	1238	1082	1521	1873	2338	2118	1344	1055	1332	1220	1394	1637	1651	1523	1366	1383	
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 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		829	1016	1104	865	1104	1016	1104	1016	1104	1104	1104	865	1104	953	1104	1104	1016	1104	1104	1104	1104	1016	1104	1104	1104	1104	1104	953	865	802	714	714	802	714	953	865	953	1016	1104	917	917	1104	1016	1104	1016	1104	953	1016	
Hydro		209	87	89	147	90	48	92	93	96	99	92	220	90	219	90	87	88	71	85	92	94	94	96	117	92	95	94	224	188	199	193	198	199	198	166	165	182	104	108	201	211	172	176	174	172	128	258	133	
S.Reserve Total		2558	2648	2643	2543	2703	2467	2876	2936	3137	3255	3261	3271	3308	3222	3660	3936	4208	3855	3827	3727	3423	3430	3462	3249	3357	3329	3208	3161	2922	2745	2865	2806	2832	2680	3237	3482	3844	3662	2901	2524	2589	2631	2805	3039	3167	3002	2904	2944	