

Daily System Generation Summary on Friday

Friday, October 14, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,472 MW
Distillate	0 MW
Total TNB	2,472 MW
Total IPP	17,853 MW
Total Co-Gen	0 MW
Total System	23,796 MW

Generation Mix

Type	MWh	Percentage
Hydro	27,622	7.56 %
Gas	36,962	10.12 %
Total TNB	64,584	17.68 %
ST-Coal	224,625	61.48 %
LSS	5,939	1.63 %
Gas	70,051	19.17 %
Total IPP	300,615	82.28 %
Co-Gen	571	0.16 %
Total Co-Gen	571	0.16 %
Total Generation	365,770	100.11 %
PLTG	405	0.11 %
EGAT	6	0.00 %
Interconnection	411	0.11 %
Net Energy	365,359	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:	15:30:00 Hour
Total Set On Bus	18,550 MW
TNB Generation	3,375 MW
IPP Generation	13,680 MW
Spinning Reserve	1,465 MW
Maximum Demand	17,105 MW
Net Energy	365,359 MWH
Load Factor	89.00 %

Fuel Cost

Total Cost:	127,933,608.54 RM
Cost per Unit	34.97 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,111
Hydro	460
Syncon	187
Thermal	150
Total	1,908

Time Weather Temperature

Afternoon	Hot	32
Morning	Hot	32

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	65
Total TNB	94
CBPS	35
EMPP	242
NPRI	66
PCGP	75
PLPS	51
SPGP	159
Total IPP	628
Total Gas	722
Total Gas Required	722

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	14820	14133	13784	13174	13010	12859	13115	13121	13402	14913	15728	16309	16281	15937	16218	16859	16985	16615	15822	16268	16736	16549	16073	15620

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 2, 2022 3:11:11 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	706	705	706	707	707	705	707	667	555	479	551	655	702	706	665	706	707	702	705	704	706	705	705	702	705	706	706	704																							
JMAH	U002	704	702	704	705	704	705	703	702	711	705	707	704	706	703	663	703	704	709	704	706	705	706	704	703	710	706	704	705	704	703																					
JMHE	U001	978	899	901	900	901	901	897	898	853	854	851	852	848	844	846	852	853	982	981	979	980	980	977	979	979	982	978	976	977																						
JMHE	U002	977	901	903	902	902	901	895	899	851	851	852	851	850	848	836	850	852	967	980	980	980	979	980	977	982	978	981	976	981																						
JMJG	U001	667	666	666	670	671	667	657	661	666	667	669	663	672	665	661	667	668	667	671	667	668	662	663	670	601	582	587	587	585	582	620	643	633	629	623	632	623	628	623	630	634	626	626	628	623	629	627	623			
JMJG	U002	669	671	665	668	667	667	672	672	669	670	666	676	666	669	671	671	672	670	669	670	665	669	669	672	671	670	671	667	667	668	671	669	668	671	669	668	671	669	669	671	676	671	667	671	668	667	662	667	668	663	671
JMJG	U003	662	666	668	664	669	668	671	671	668	674	667	667	669	668	662	660	666	664	672	668	661	672	668	666	675	666	667	669	662	671	672	670	668	660	672	663	667	669	666	668	671	672	666	672	667	671	662	672			
JMJG	U004	973	958	900	902	903	900	904	854	853	856	856	854	855	854	859	856	857	887	943	981	977	975	977	977	974	978	976	980	977	973	972	973	977	974	977	973	972	971	972	976	973	972	974	977	974	974	974	972	273	273	
PKLG	U004	272	291	271	274	239	157	149	148	153	150	147	155	146	148	152	150	148	217	265	276	273	270	273	275	271	272	275	274	270	277	276	272	273	271	268	270	264	270	271	267	273	273	270	269	271	273	273	273			
PKLG	U005	468	463	467	468	424	333	263	270	271	267	268	269	269	268	269	269	269	326	382	436	473	473	470	466	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	96	120	135	164	167	207	184	
PKLG	U006	444	444	441	442	398	309	274	269	268	269	268	269	268	269	269	269	269	328	427	447	447	450	446	443	449	450	447	447	446	446	448	450	446	446	444	445	444	442	445	446	445	443	449	443	443	444	445	445			
TBIN	U002	702	700	700	703	702	702	704	699	703	703	701	705	703	701	700	703	703	701	709	700	702	704	699	703	707	702	700	702	699	701	699	700	699	702	701	701	703	699	707	702	702	703	703	702	701	701	701	701			
TBIN	U003	700	702	706	700	702	700	702	699	702	703	701	701	699	703	700	700	702	700	700	701	699	703	704	698	702	700	702	701	701	701	701	702	701	701	704	703	703	701	698	700	700	700	701	701	705	699	700	701			
TBIN	U004	940	890	904	907	903	905	905	852	855	854	854	855	849	854	856	853	855	906	939	940	937	936	939	939	937	937	938	937	937	939	937	940	938	939	938	937	941	937	937	935	937	937	934	939	940	938	939	936			
Total ST-Coal		9862	9658	9602	9612	9492	9220	9101	9001	8890	8778	8688	8768	8855	8901	8891	8825	8923	9428	9741	9863	9870	9882	9884	9870	9353	9322	9335	9328	9313	9330	9366	9391	9369	9358	9364	9367	9355	9369	9355	9367	9425	9461	9478	9488	9527	9537	9555	9543			
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	190	193	202	193	201	202	193	190	186	195	191	198	201	197	194	194	203	202	200	194	204	203	197	201	195	191	193	201	200	202	197	199	196	201	192	201	200	200	203	237	229	206	202	197	197	201	201	201			
EMPP	BLK1	394	402	410	400	411	410	403	397	386	406	397	411	411	408	399	405	410	410	409	408	427	409	410	411	487	569	402	410	421	412	469	743	744	742	743	508	416	409	550	710	711	690	600	599	500	522	507	502			
EMPP	BLK2	393	402	430	401	411	410	403	397	386	407	396	411	412	407	398	405	411	410	409	408	428	409	534	592	687	683	580	464	709	711	689	452	648	597	589	486	412	410	607	721	703	682	600	597	499	522	551	545			
EMPP	BLK3	393	402	436	401	552	536	406	397	386	406	397	411	412	407	398	405	410	410	409	408	427	708	695	710	686	682	680	703	707	711	689	711	705	709	700	711	711	708	710	720	703	710	709	707	709	709	705	709			
GLGR	GT01	66	92	93	92	93	92	91	91	91	93	93	92	92	90	93	91	93	92	91	92	91	91	91	92	91	92	91	91	92	91	91	91	91	93	94	92	92	93	92	93	93	93	92	92	92	93					
GLGR	GT02	66	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
GLGR	ST1C	71	72	41	39	41	40	40	40	40	40	41	41	40	40	39	40	41	40	40	40	40	40	40	41	40	39	40	40	40	40	40	40	41	41	41	41	42	42	42	42	42	42	41	42	41	42	41	42			
NPRI	BLK2	430	390	304	298	309	308	299	296	287	299	295	303	308	302	297	298	308	309	317	311	368	518	512	514	349	324	323	332	333	335	420	515	512	517	505	518	517	519	526	527	510	519	516	512	513	519	518	521			
PCGP	PGRG	400	396	402	401	401	403	404	406	405	401	406	401	404	406	405	391	402	401	397	490	508	503	491	500	586	576	581	602	597	600	584	597	589	597	575	601	599	602	605	620	583	601	603	589	491	399	400	401			
PLPS	GT11	128	128	128	128	128	128	127	129	129	128	128	128	129	129	129	129	129	129	129	128	128	129	128	128	127	126	116	115	114	113	116	115	115	111	116	115	115	115	120	111	115	115	116	116	127	128	128				
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	0	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	58	57	58	58	58	57	57	58	58	57	57	58	58	60	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58			
SPGP	BLK1	599	599	498	501	360	361	361	362	359	360	360	360	361	448	361	400	399	597	596	590	603	591	587	595	571	430	565	593	597	599	592	597	593	599	584	600	598	600	602	612	587	599	598	590	594	597	600	601			
SPGP	BLK2	599	599	499	500	362	361	361	361	363	361	360	361	362	449	359	400	401	400	496	590	602	593	590	593	586	580	582	591	592	593	587	593	589	594	581	594	593	594	596	607	583	594	592	585	588	590	595	594			
TJGS	GT1A	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105				
TJGS	GT1B	105	104	103	103	103	103																																													

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	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	100	99	100	100	100	100	99	99	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
KNYR	HY02	98	0	0	0	0	60	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
KNYR	HY03	100	101	101	100	99	99	98	98	99	99	100	100	101	101	100	100	100	100	100	99	99	98	98	100
KNYR	HY04	100	99	100	100	100	100	99	99	99	100	100	100	100	100	101	100	101	99	96	96	95	99	100	99
LPIA	HY01	20	20	20	20	20	20	20	19	19	19	19	19	19	19	17	17	17	17	17	17	17	17	17	18
LPIA	HY02	19	19	19	19	19	19	18	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	18	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	HY01	22	21	21	21	21	21	20	22	22	22	21	22	22	22	22	22	22	22	23	83	83	83	83	111
PGAU	HY02	22	21	21	21	21	21	20	22	22	22	22	22	22	22	22	22	114	22	22	22	22	113	112	112
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	9
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	31
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	16
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	25
TMGR	HY01	0	0	0	0	0	0	1	0	0	0	0	34	34	35	35	34	79	79	79	79	78	79	79	79
TMGR	HY02	79	81	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	33	64	83	84	84	84	84	84	84
TMGR	HY03	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	32	61	78	79	79	78	79	79	79
TMGR	HY04	40	39	72	39	41	82	40	37	35	40	38	43	66	59	39	39	56	60	41	40	79	41	41	55
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	95	141	144	141	147
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	148	144	148	144	150
UPIA	HY01	5	5	5	6	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	4	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		853	689	643	607	608	649	606	661	690	697	696	702	726	719	702	704	723	852	773	830	979	1036	1033	1055
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	1	2	9	12	18	20	15	26	26	29
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	9	7	8	10	13	16	18
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	10	12	9	17	20	14	30	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	15	23	29	33	24	25	20	20
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	25	29	34	38	41	43	36	43
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	11	17	20	15	25	28	20	28
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	5	13	16	19	9	23	42	39	41
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	12	17	16	11	20	19	5	10	18
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	11	24	26	39	28	49	31	42	31
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	22	22	27	24	51	49	37	84	90
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	20	12	15	15	22	31	15	43
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	5	7	9	12	17	10	25	29	30
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	21	35	48	44	28	60	58	33	83
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	11	14	15	14	20	25	14	23
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	15	26	33	39	44	47	49	51	48
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	49	75	87	91	91	70	92	91	87
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	18	33	83	48	106	113	112	102	112
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	19	26	34	40	17	19	15	35	22
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	8	12	12	15	20	27	31	34	27
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	8	11	10	20	23	26	28	29	27
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	17	30	28	30	30	30	30	30

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			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	106	269	424	565	582	626	725	735	783	881	872	832	717	754	689	712	459	451	310	210	113	35	5	0	0	0	0	0	0	0	0	0		
ESTL	ESTL	0	18	5	18	5	17	8	9	6	16	15	14	10	15	19	7	21	20	20	21	14	16	19	18	7	13	11	16	7	6	11	21	20	7	15	0	0	15	14	14	11	21	10	18	9	3	16	12	
KHTC	BLK1	3	4	2	4	3	1	1	4	1	2	1	2	1	2	1	3	0	2	0	1	3	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	2	4	3	2	4			
PCUF	CUFG	4	5	6	5	6	5	4	5	5	6	6	7	6	5	5	6	5	4	5	5	5	5	6	6	6	6	4	3	5	4	4	6	5	5	6	5	5	6	6	7	7	5	5	6	5	6			
PCUF	CUFK	4	5	5	5	3	4	5	4	4	4	4	4	4	3	4	5	5	5	3	4	5	4	5	3	5	4	3	5	4	4	4	6	5	4	4	5	5	4	7	5	4	6	5	3	5				
Total Co-Gen		11	32	18	32	17	27	18	22	16	28	26	27	22	24	30	19	34	29	30	30	25	28	29	27	18	25	23	24	14	15	21	30	30	16	25	11	9	27	24	24	25	34	24	29	24	17	26	27	
Total Gen		14870	14506	14119	14018	13799	13558	13224	13162	13026	13012	12884	13025	13146	13340	13107	13149	13404	14389	14874	15357	15694	16174	16360	16477	16220	16108	15942	16092	16228	16680	16869	17085	17031	16996	16717	16246	15859	15794	16308	16939	16794	16762	16568	16413	16141	15920	15651	15411	
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	
TIE-HVDC		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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-PLTG		50	30	-14	15	15	10	49	45	16	-7	25	26	30	74	-14	-4	1	-28	-40	-30	-35	1	51	-23	-61	10	5	49	10	6	10	-20	46	43	102	15	36	3	39	20	58	16	19	63	68	21	31	-23	
Interconnection		50	31	-14	16	15	10	50	45	16	-7	25	26	31	74	-14	-4	2	-27	-39	-30	-34	2	51	-23	-61	10	5	49	10	6	10	-20	46	43	102	15	37	3	40	21	58	16	19	63	68	22	31	-23	
System Total		14820	14475	14133	14002	13784	13548	13174	13117	13010	13019	12859	12999	13115	13266	13121	13153	13402	14416	14913	15387	15728	16172	16309	16500	16281	16098	15937	16043	16218	16674	16859	17105	16985	16953	16615	16231	15822	15791	16268	16918	16736	16746	16549	16350	16073	15898	15620	15434	
SRev ST-Coal		157	361	409	402	503	514	509	568	600	626	631	614	563	570	652	554	363	238	156	149	137	135	149	177	138	125	132	147	130	114	109	121	132	126	123	135	121	135	183	225	129	162	152	163	153	135	147		
SRev CCGT-Gas		1933	1950	2066	2155	2240	2260	2423	2444	2492	2413	2448	2394	2379	2226	2438	2353	2304	2111	2016	1853	1684	1320	1233	1132	1100	1332	1425	1396	1136	1132	1075	885	718	737	833	1070	1239	1251	890	574	602	680	869	912	1196	1309	1245	1344	
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 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 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		500	626	626	802	802	802	802	802	802	802	802	802	802	802	802	802	626	626	626	626	439	439	439	187	187	500	187	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187	374	374
Hydro		357	355	314	348	347	306	349	439	365	358	359	353	329	336	440	438	419	466	545	488	339	469	472	450	513	610	446	592	576	595	440	471	417	400	457	580	537	544	344	236	362	361	373	500	522	346	376	456	
S.Reserve Total		2947	3292	3502	3707	3892	3882	4083	4253	4259	4199	4240	4180	4124	3927	4250	4245	4079	3566	3425	3123	2798	2365	2279	2170	1977	2267	2496	2307	2046	1857	1629	1465	1256	1269	1416	1773	1911	1916	1369	993	1189	1170	1404	1564	1881	1995	2130	2321	