

Daily System Generation Summary on Friday

Friday, September 16, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,139 MW
Distillate	0 MW
Total TNB	2,139 MW
Total IPP	18,622 MW
Total Co-Gen	0 MW
Total System	24,388 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,511	5.75 %
Gas	52,405	16.28 %
Total TNB	70,916	22.03 %
ST-Coal	157,876	49.04 %
LSS	5,315	1.65 %
Gas	87,360	27.14 %
Total IPP	250,551	77.83 %
Co-Gen	648	0.20 %
Total Co-Gen	648	0.20 %
Total Generation	322,115	100.06 %
PLTG	2,017	0.63 %
HVDC	-1,835	-0.57 %
Interconnection	182	0.06 %
Net Energy	321,933	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	16,133 MW
TNB Generation	3,674 MW
IPP Generation	11,433 MW
Spinning Reserve	982 MW
Maximum Demand	15,161 MW
Net Energy	321,933 MWH
Load Factor	88.48 %

Fuel Cost

Total Cost:	94,445,536.62 RM
Cost per Unit	29.29 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	666
Hydro	306
Syncon	415
Thermal	666
Total	2,053

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	100
Total TNB	130
CBPS	42
EMPP	291
NPRI	81
PCGP	89
PGLA	50
PLPS	6
SPGP	210
Total IPP	769
Total Gas	899
Total Gas Required	899

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	15036	14235	13666	13372	12924	12678	12726	12291	11474	11816	12415	12739	13021	13080	13238	13554	13614	13544	13441	14068	15161	15023	14664	14470

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 5, 2022 9:01:38 AM

(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	351	211	215	213	213	213	215	213	214	213	214	214	213	213	213	215	214	214	214	215	213	214	212	213	214	212	214	214	213	213	213	214																					
JMHE	U001	977	981	908	899	862	799	799	804	807	797	800	800	800	799	799	802	802	794	803	803	799	802	818	821	820	819	817	861	861	863	860	859	860	860	858	854	861	910	964	969	970	969	968	926	936	928	926						
JMHE	U002	981	982	919	899	866	799	800	803	804	799	800	801	800	800	798	805	798	800	801	801	799	802	818	820	821	820	818	861	859	864	857	860	858	860	856	858	860	912	967	970	969	970	970	929	932	931	927						
JMJG	U001	666	676	676	676	675	677	678	678	677	677	676	551	456	424	414	419	420	418	418	420	418	421	420	418	418	419	419	418	420	418	418	418	420	442	530	611	673	672	673	672	675	673	672	673	671								
JMJG	U002	671	672	668	672	682	673	649	572	485	424	431	431	436	431	428	427	431	431	431	431	431	431	428	431	431	431	432	430	477	559	647	662	676	667	672	674	675	671	676	676	676	673	677	675	675	676							
JMJG	U004	907	907	904	905	869	808	808	809	809	810	812	811	810	811	810	810	810	810	806	807	834	832	825	822	832	870	866	868	866	867	865	867	866	869	866	881	903	905	904	906	897	894	899	895	895								
JMJG	U005	882	887	891	899	810	800	791	799	793	796	799	803	800	804	810	800	800	801	800	800	803	799	794	818	816	820	819	843	858	860	859	858	858	862	856	859	863	858	873	895	896	895	898	894	896	897	895	894					
PKLG	U006	348	277	268	268	269	269	269	269	269	269	268	269	268	269	268	269	268	269	268	268	269	268	268	269	268	269	268	268	269	268	268	268	268	267	268	269	268	268	269	269	268	270	269	269	269								
TBIN	U001	322	212	210	212	213	212	212	211	211	212	211	211	212	211	212	211	212	212	211	211	212	212	211	211	212	211	211	212	211	211	212	212	212	211	213	293	448	645	699	700	699	699	702	701	702								
TBIN	U002	702	700	629	290	216	210	213	213	214	214	213	215	214	214	213	212	214	214	214	215	215	214	214	213	214	214	214	213	214	214	215	214	214	214	238	306	264	254	212	212	215	214	213	213									
TBIN	U003	420	264	211	211	211	211	211	212	212	210	212	211	212	213	210	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	213	213	212	212	211	213	211	212	211	212	211	212	212	212	212								
TBIN	U004	802	803	803	804	803	805	802	803	802	802	803	803	803	804	805	806	802	801	803	802	801	803	802	801	802	802	801	802	801	804	803	803	802	803	802	803	806	852	855	854	856	853	852	854	854	852	853	852	852	853	851	852	853
Total ST-Coal		8029	7572	7302	6948	6689	6476	6447	6386	6297	6223	6241	6244	6120	6025	5992	5968	5992	5981	5976	5986	5988	5974	5976	6061	6059	6058	6051	6078	6223	6217	6275	6391	6484	6500	6515	6499	6529	6622	6941	7373	7542	7587	7548	7534	7458	7472	7457	7452					
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	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	0	0		
CBPS	BLK2	266	277	267	269	264	265	265	264	265	262	259	259	265	269	254	190	193	195	190	197	200	209	202	201	201	200	201	285	200	269	277	270	272	277	273	271	275	277	266	276	277	272	269	272	270	274	273	268					
EMPP	BLK1	708	724	709	715	692	711	619	621	604	623	584	583	598	695	573	398	400	403	398	410	412	409	410	407	410	513	635	666	699	711	707	707	710	714	709	710	709	716	686	714	716	710	696	710	696	713	711	703					
EMPP	BLK2	709	724	711	716	711	712	709	707	712	704	701	701	708	709	689	696	400	403	397	410	412	413	498	638	709	709	708	702	709	709	711	708	710	714	710	710	708	715	703	713	715	710	708	710	708	714	711	706					
EMPP	BLK3	708	725	709	716	711	711	702	695	696	694	684	685	698	709	670	676	465	425	397	410	560	710	710	709	709	711	708	686	700	711	711	706	710	715	710	710	709	716	685	713	715	709	701	709	693	713	711	702					
GLGR	GT02	92	92	92	107	108	108	108	108	108	107	107	107	107	108	108	107	108	107	91	91	92	91	92	91	91	92	92	92	92	92	92	92	92	92	92	92	92	91	103	106	106	106	107	106	106	106	107	106					
GLGR	ST1C	40	41	41	46	46	47	47	47	47	47	46	46	46	46	46	46	46	46	41	40	40	39	41	41	41	41	41	40	40	40	40	40	40	40	40	40	41	43	45	46	45	46	46	45	46	45	46	45					
NPRI	BLK2	515	530	518	523	518	518	519	515	518	514	508	511	515	520	500	504	506	511	505	513	515	519	518	517	518	517	517	510	517	518	520	514	519	523	518	519	521	524	509	523	524	520	514	520	516	521	518	513					
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	600	600	600	599	602	602	601	615	600	598	605	614	585	610	610	602	591	603	593	608	600	587						
PGLA	GT12	148	153	150	227	227	229	228	224	224	226	220	220	228	228	218	147	147	147	147	152	152	152	152	152	151	151	150	150	150	145	143	146	145	146	145	146	162	220	222	223	224	223	225	223	227	219	221						
PGLA	ST10	84	84	83	110	111	110	108	108	107	107	105	104	106	108	103	80	81	81	81	80	81	80	81	81	82	82	82	82	82	82	82	82	82	82	83	83	83	83	83	109	108	109	110	110	110	111	110	106	107				
PLPS	GT11	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT13	112	122	123	144	143	143	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	133	89	59	58	59	58	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK1	727	737	725	728	726	727	724	723	720	722	713	710	724	726	707	708	713	713	708	719	717	719	717	711	713	714	713	705	707	713	704	705	709	725	716	718	716	717	710	721	719	719	713	721	715	721	725	722					
SPGP	BLK2	725	735	723	727	723	726	721	719	719	718	711	710	723	724	703	704	710	709	707	718	719	719	714	703	707	707	707	694	700	705	696	698	702	726	713	713	711	714	706	721	718	720	714	724	720	725	725	724					
TJGS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	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	GT2A	169	189	217	217	218	218	216	216	218	218	218	218	218	217	218	129	132																																				

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	
KNYR	HY02	104	104	104	104	104	104	103	60	60	61	60	60	60	61	60	103	103	103	103	103	103	103	103	103	103
KNYR	HY03	103	103	103	103	102	102	101	100	59	60	59	59	59	60	59	59	58	102	103	102	101	101	100	100	100
KNYR	HY04	0	0	0	0	0	0	60	99	60	60	60	60	-1	-1	-1	100	99	100	101	101	101	101	101	101	101
LPIA	HY01	17	17	15	10	10	10	10	10	10	10	10	13	13	13	14	14	15	15	15	15	15	15	15	15	15
LPIA	HY02	16	16	14	10	8	8	8	8	8	8	8	11	11	11	12	12	15	15	15	15	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	22	22	22	22	22	22	22	22	22	22	21	22	22	22	22	22	22	22	22	22	22	21	22	
PGAU	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	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	30	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	30	
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	17	
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	17	
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	17	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	82	81	81	81	
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	35	44	42	74	83	45	45	44	46	84	83	83	52	
TMGR	HY03	61	83	56	83	42	83	43	42	40	41	40	40	41	42	37	38	0	0	5	30	0	0	0	2	
TMGR	HY04	33	-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	94	93	-1	-1	-1	
UPIA	HY01	5	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UPIA	HY02	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Hydro		679	667	634	644	600	643	660	695	529	531	530	529	538	462	455	456	479	601	638	713	724	722	717	686	689
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	1	5	5	6	20	19	21	24	19	20	21	18	29
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	14	21	24	25	4	3	6	8	20	14	6
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	9	14	18	23	24	25	28	14	14	9	31	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	8	5	7	14	14	19	21	21	37	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	17	22	28	37	40	37	29	24	17	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	9	12	18	23	21	30	24	12	23	28	22	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	19	26	32	36	42	14	45	31	35	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	9	14	14	13	28	25	27	27	16	5	25	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	8	11	19	22	25	28	25	12	10	11	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	11	24	37	50	62	62	38	81	87	32	16	20	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	12	17	22	28	32	19	32	23	44	12	40	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	6	10	10	15	15	19	19	24	24	26	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	17	35	51	65	78	83	94	89	100	100	59	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	5	10	15	20	16	26	30	30	15	28	27	22	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	21	28	34	39	45	30	30	51	51	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	14	31	72	81	87	81	92	76	59	56	92	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	6	21	32	43	43	65	91	111	107	113	114	85	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	8	16	23	28	30	51	52	45	49	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	19	18	30	31	37	41	43	39	38	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	2	6	12	16	19	22	24	24	29	29	29	18	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	1	4	7	12	12	15	20	21	24	27	26	30	9	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	28	135	262	425	543	651	751	779	797	793	739	699	
KHTC	BLK1	4	5	3	4	3	4	3	4	3	4	3	5	3	3	2	1	3	2	0	0	0	0	0	0	0
PCUF	CUFG	14	14	14	14	14	13	13	14	14	13	14	15	13	14	13	14	13	13	13	14	13	13	13	13	13

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	
PCUF	CUFK	26	27	27	26	26	12	4	4	5	4	5	3	6	5	4	4	5	4	4	6	5	5	4	4	4	4	4	5	5	4	5	4	3	4	4	4	4	5	28	26	26	27	26	26	27	27	28	26
Total Co-Gen		44	46	44	44	43	30	20	21	22	22	21	21	24	23	21	20	21	18	20	21	18	18	18	17	19	18	18	18	19	17	20	17	16	19	19	17	17	20	42	40	44	45	42	43	43	44	42	41
Total Gen		14985	14522	14171	14006	13654	13497	13361	13113	12850	12782	12712	12712	12683	12633	12320	11775	11446	11652	11771	12055	12332	12601	12673	12863	12942	13029	13098	13164	13205	13431	13560	13487	13618	13688	13602	13496	13477	13581	14113	15063	15151	15122	15018	14873	14692	14709	14461	14359
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		-29	-29	-29	-29	-29	-29	-31	-31	-29	-28	-31	-29	-30	-28	-31	-98	-97	-97	-98	-98	-97	-97	-98	-98	-100	-100	-98	-98	-98	-98	-98	-99	-99	-98	-98	-97	-97	-97	-97	-98	-97	-98	-99	-98	-99	-99	-99	
TIE-PLTG		-1	-28	-9	7	41	-15	36	20	-21	52	87	25	9	62	84	115	94	107	74	42	35	54	55	85	45	85	141	115	91	116	128	141	128	123	168	144	151	99	162	157	95	133	113	120	148	124	111	186
Interconnection		-29	-57	-38	-21	13	-43	5	-11	-49	24	56	-4	-20	34	53	17	-3	10	-24	-56	-62	-44	-43	-12	-54	-14	44	18	-7	19	31	44	29	24	70	46	53	1	65	58	-2	35	15	22	49	26	12	87
System Total		15036	14600	14235	14050	13666	13550	13372	13148	12924	12780	12678	12740	12726	12622	12291	11783	11474	11663	11816	12132	12415	12666	12739	12900	13021	13069	13080	13172	13238	13437	13554	13466	13614	13679	13544	13470	13441	13597	14068	15013	15161	15099	15023	14874	14664	14697	14470	14291
SRev ST-Coal		346	326	534	548	668	741	776	794	800	796	790	789	850	844	837	850	852	851	850	840	842	840	843	806	814	815	820	785	732	733	729	686	706	691	677	688	677	684	628	428	399	346	343	357	438	421	434	440
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	
SRev CCGT-Gas		594	300	346	187	235	209	323	329	338	334	420	422	339	217	488	1037	1521	1550	1628	1548	1389	1229	1157	1038	958	853	738	675	696	438	340	362	334	256	316	319	312	257	302	158	149	180	235	173	232	150	178	226
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		426	514	514	514	514	514	514	514	514	514	514	514	363	615	615	615	615	514	514	514	514	426	514	514	514	514	514	514	514	514	363	514	514	327	327	426	426	239	151	151	151	151	338	338	338	338	426	
Hydro		309	233	266	242	286	243	326	291	457	455	456	457	599	423	430	429	469	361	324	249	238	358	275	276	273	235	264	256	297	264	280	412	285	246	385	390	275	274	356	190	283	325	332	339	385	465	443	403
S.Reserve Total		1675	1373	1660	1491	1703	1707	1939	1928	2109	2099	2180	2182	2151	2099	2370	2931	3457	3276	3316	3151	2983	2853	2789	2634	2559	2417	2336	2230	2239	1949	1863	1823	1839	1707	1705	1724	1690	1641	1525	927	982	1002	1061	1207	1393	1374	1393	1495