

Daily System Generation Summary on Friday

Friday, September 9, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,169 MW
Distillate	0 MW
Total TNB	2,169 MW
Total IPP	19,594 MW
Total Co-Gen	0 MW
Total System	24,793 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,181	6.31 %
Gas	51,186	13.94 %
Total TNB	74,367	20.25 %
ST-Coal	181,039	49.29 %
ST-Gas	8,029	2.19 %
LSS	4,974	1.35 %
Gas	98,317	26.77 %
Total IPP	292,359	79.61 %
Co-Gen	1,018	0.28 %
Total Co-Gen	1,018	0.28 %
Total Generation	367,744	100.13 %
PLTG	2,253	0.61 %
HVDC	-1,766	-0.48 %
Interconnection	487	0.13 %
Net Energy	367,257	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	18,365 MW
TNB Generation	3,392 MW
IPP Generation	13,622 MW
Spinning Reserve	1,297 MW
Maximum Demand	17,047 MW
Net Energy	367,257 MWH
Load Factor	89.77 %

Fuel Cost

Total Cost:	112,404,046.36 RM
Cost per Unit	30.54 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	501
Hydro	384
Syncon	253
Thermal	412
Total	1,550

Time Weather Temperature

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	91
Total TNB	122
CBPS	39
EMPP	276
NPRI	82
PCGP	89
PGLA	49
PLPS	65
SKSP	55
SPGP	211
PKLG	76
Total IPP	941
Total Gas	1,064
Total Gas Required	1,064

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	15243	14595	14076	13666	13342	13118	13282	13411	13667	15177	16012	16372	16358	15994	16259	16862	16970	16637	15755	15832	16544	16409	15776	15564

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, October 4, 2022 2:53:31 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	285	215	213	213	214	215	215	214	215	215	215	216	214	214	214	215	215	214	214	215	213	214	215	213	214	215	213	214	215	214																			
JMAH	U002	215	217	214	213	213	215	213	214	214	213	213	214	213	213	214	213	213	213	213	214	214	214	214	216	208	22	0	0																					
JMHE	U001	978	976	980	896	898	900	901	904	901	902	895	900	900	854	852	849	849	909	970	981	982	980	981	976	977	977	976	985	981	983	978	976	980	981	977	980	977	980	977	984	979	981	979	980	974	981	976	981	
JMHE	U002	978	977	978	898	891	901	900	900	900	903	895	900	899	852	852	851	852	854	981	980	981	981	981	978	980	977	980	982	982	979	975	980	981	980	978	978	977	980	979	983	977	983	980	979	979	982	979	981	
JMJG	U001	674	671	673	677	674	671	676	677	673	673	675	676	672	677	678	673	670	664	667	669	667	666	666	666	668	667	666	668	667	667	667	668	671	621	624	621	621	617	626	629	620	623	623	623	623	620	620	622	
JMJG	U002	668	667	670	667	668	671	668	673	665	671	670	671	666	662	671	668	667	669	665	671	668	670	670	669	668	671	672	666	678	668	671	664	669	664	675	662	671	674	669	670	672	670	662	662	673	673	668	668	
JMJG	U004	973	973	972	956	900	855	856	856	855	857	858	857	856	857	855	856	865	918	975	973	975	975	977	976	975	975	975	977	975	974	977	975	974	976	977	975	973	975	974	972	976	976	976	973	977	977	973	974	
JMJG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	137	154	197	242	261	306	317	390	409	457	532	572	675	755	758	803	795	796	795	825	956	974	973	970	974	972	974	976	977	
TBIN	U001	699	698	698	696	699	699	698	700	695	695	697	698	696	699	695	698	699	700	699	698	700	697	698	698	696	696	696	674	473	398	346	221	209	210	211	215	211	211	211	211	213	210	211	212	212	212	211		
TBIN	U002	702	700	704	700	701	701	701	698	700	701	703	411	210	211	211	328	468	667	705	700	703	701	701	702	701	701	700	702	701	703	701	700	701	702	701	664	472	405	475	607	705	704	701	706	700	704	548	292	
TBIN	U003	702	700	700	702	701	702	630	423	289	209	213	212	212	211	212	211	211	213	347	489	625	708	701	705	698	701	701	701	700	700	702	702	700	700	681	510	382	422	522	613	597	608	474	293	206	213	212		
TBIN	U004	938	940	938	906	852	854	852	853	853	852	853	852	852	853	851	853	859	942	940	943	941	944	942	945	939	941	943	941	942	943	941	940	941	942	941	941	938	940	937	939	939	940	939	938	938	940	938	941	
Total ST-Coal		7812	7734	7740	7524	7411	7384	7310	7112	6965	6891	6885	6604	6393	6303	6309	6412	6568	6961	7340	7528	7686	7867	7995	7999	8044	8050	8126	8156	8209	8251	8082	8106	8148	7972	8012	7935	7575	7391	7523	7905	8095	8085	8079	7950	7761	7505	7318	7073	
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
PKLG	U006	307	269	268	268	268	268	268	269	269	269	269	269	268	268	268	269	268	268	269	269	269	269	269	269	269	269	269	269	269	269	269	358	434	449	449	449	446	448	448	448	448	448	449	446	449	446	449	449	446
Total ST-Gas		307	269	268	268	268	268	268	269	269	269	269	269	268	268	268	269	268	268	269	269	269	269	269	269	269	269	269	269	269	269	358	434	449	449	449	446	448	448	448	448	448	449	446	449	446	449	449	446	
CBPS	BLK2	202	200	201	201	201	201	200	202	202	201	197	202	201	202	201	200	201	204	201	201	200	194	197	197	193	195	191	198	195	201	260	287	281	285	267	270	272	275	269	283	266	264	265	269	266	267	269	271	
EMPP	BLK1	415	407	417	466	462	436	412	410	410	413	405	448	576	478	526	414	437	711	709	710	699	706	691	688	682	602	400	416	540	711	686	685	674	709	674	673	638	707	647	725	635	587	655	587	560	646	664	691	
EMPP	BLK2	414	409	419	466	461	439	411	410	414	411	406	449	575	707	710	705	707	712	708	710	710	699	707	703	698	704	695	667	700	711	700	700	689	709	690	694	705	710	707	726	703	700	704	688	677	698	703	705	
EMPP	BLK3	599	580	453	520	511	441	411	410	414	411	406	495	613	707	710	706	709	711	708	710	700	681	693	688	682	691	679	661	683	710	686	685	675	709	676	673	691	710	699	727	690	681	687	671	657	683	689	692	
GLGR	GT01	66	67	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT02	65	66	73	95	92	92	91	91	91	92	92	92	92	91	92	92	92	91	107	107	107	107	107	92	93	92	93	93	93	107	107	107	107	107	107	107	107	107	107	107	108	107	107	107	107	107	107	107	
GLGR	ST1C	76	71	70	40	40	40	40	40	40	40	40	40	41	40	40	40	40	41	45	46	46	47	47	41	41	40	41	40	40	46	47	48	48	48	48	48	48	48	48	48	48	48	47	47	47	47	47	47	47
NPRI	BLK2	532	533	532	533	533	533	536	533	535	533	529	535	534	535	535	533	535	539	535	533	529	524	529	526	522	527	520	524	523	523	524	523	522	522	512	519	524	524	526	526	526	525	526	523	517	521	525	529	
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	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
PGLA	GT12	151	152	152	151	152	152	152	151	152	148	152	152	152	152	152	155	153	152	151	148	149	148	148	149	146	149	148	151	225	224	214	226	213	215	221	225	226	226	226	227	220	220	219	219	220	219	221		
PGLA	ST10	83	83	83	83	83	83	83	83	83	82	82	82	82	82	82	82	82	82	82	83	82	82	81	82	82	82	81	81	82	82	108	110	103	108	105	104	105	109	109	108	108	104	104	105	105	105	105	104	141
PLPS	GT11	146	145	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	80	142	111	144	141	140	140	143	139	139	138	143	139	145	143	142	144	142	140	140	139	139	140	141	141		
PLPS	GT12	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	144	143	144	140	142	135	125	125	124	124	125	125	124	124	124	124	124	125	144	142	142	139	140	140	109	139	135	136	136	140	137	138	138	142	135	136	142	141	141	143	140	139	139	139	136	138	139	139	
PLPS	ST18	212	179	144	94	60	56	57	58	58	57	57	57	57	57	57	59	59	59	59	58	60	116	143	129	144	142	143	143	143	143	141	142	143	141	143	142	145	144	144	142	142	144	142	142	142	143	142	142	
SKSP	BLK1	213	218	216	218	217	218	218	218	217																																								

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			
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	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	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35		
KNYR	HY01	101	100	100	101	101	101	101	100	101	101	100	100	101	101	101	101	100	101	101	101	101	101	100	101	101	100	101	100	100	100	100	101	101	100	100	100	100	101	101	100	100	100	101	100	100	100	100	101	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	104	104	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	103	102	102	101	101	101	101	101	102	102	102	103	103	103	103	103	103	103	103	102	102	101	101	101	101	102	102	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
KNYR	HY04	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19		
LPIA	HY02	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	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	3	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	22	22	22	22	22	22	22	22	22	23	83	83	83	23	23	23	22	22	22	22	22	23	22	22	23	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	85	57	-1	-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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	81	81	34	33	34	-1	-1	-1	-1	-1	0	-1	0	-1	0	-1	0	11	81	81	81	81	81	33	32	-1	-1	33	32	34	81	82	82	81	31	34	34	81	81	81	33	32	30	32	33	33	34	33	34		
TMGR	HY02	85	85	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	87	86	86	86	86	86	36	34	36	34	-1	34	36	86	87	86	86	85	31	34	35	86	86	85	84	85	32	31	33	33	34			
TMGR	HY03	70	56	72	82	78	73	79	54	82	45	40	83	83	83	83	83	83	82	82	81	81	81	42	40	39	40	38	40	39	79	78	42	41	82	36	37	43	82	43	81	50	39	48	39	36	43	57	43			
TMGR	HY04	82	81	33	33	33	1	1	1	1	1	1	1	1	1	1	1	0	33	52	81	81	81	81	32	30	32	30	32	31	33	81	31	30	33	28	29	32	33	82	81	82	82	81	29	30	32	32	32			
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	-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	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	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		1096	1080	950	959	956	820	828	802	831	796	789	831	834	853	835	834	833	931	1020	1167	1255	1314	1073	924	917	825	819	824	855	935	1077	1130	1125	1201	1156	920	776	818	1028	1065	1196	1138	1057	995	938	951	968	955			
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	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	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	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	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																																						

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	
KHTC	BLK1	3	4	4	6	4	5	6	5	5	5	4	4	4	6	9	8	6	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	21	22	23	22	21	21	21	20	21	21	21	21	20	20	23	21	24	24	26	26	24	27	28	27	27	27	27	27	27	27	27	27	28	27	27	27	28	27	28	27	26	27	27	27	25	27	28	
PCUF	CUFK	6	4	4	6	4	5	4	4	3	4	5	4	3	3	4	4	5	4	4	5	4	5	5	28	26	26	25	28	26	27	24	27	26	27	26	26	25	27	25	27	26	27	26	26	25	25	24	27
Total Co-Gen		30	30	31	34	29	31	31	29	29	30	30	29	27	29	36	33	35	30	30	32	28	32	33	55	53	53	53	56	53	54	51	54	53	55	53	53	52	55	52	55	53	53	53	53	52	50	51	55
Total Gen		15210	14861	14604	14294	14117	13830	13675	13443	13333	13216	13162	13128	13293	13347	13397	13384	13705	14623	15166	15648	16037	16299	16420	16546	16422	16261	16025	16033	16274	16688	16920	17068	16993	17018	16720	16337	15802	15690	15892	16478	16580	16429	16438	16126	15807	15719	15592	15382
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		-28	-28	-29	-29	-29	-28	-28	-28	-29	-28	-28	-31	-30	-31	-28	-28	-96	-97	-99	-99	-100	-99	-100	-97	-99	-97	-99	-97	-99	-99	-99	-99	-100	-96	-97	-98	-99	-98	-98	-96	-98	-98	-100	-97	-97	-99	-98	
TIE-PLTG		-5	84	37	27	69	19	37	63	20	44	72	44	42	37	16	50	67	81	85	74	124	156	147	155	160	139	128	64	115	99	157	120	122	77	179	177	145	93	158	71	132	150	127	87	128	91	127	116
Interconnection		-33	56	9	-2	41	-9	9	35	-9	16	44	17	11	7	-14	22	38	-15	-11	-26	25	56	48	55	64	39	31	-35	15	2	58	21	23	-22	83	80	47	-5	60	-27	36	52	29	-13	31	-6	28	18
System Total		15243	14805	14595	14296	14076	13839	13666	13408	13342	13200	13118	13111	13282	13340	13411	13362	13667	14638	15177	15674	16012	16243	16372	16491	16358	16222	15994	16068	16259	16686	16862	17047	16970	17040	16637	16257	15755	15695	15832	16505	16544	16377	16409	16139	15776	15725	15564	15364
SRev ST-Coal		256	269	258	469	567	562	637	627	640	637	636	708	714	714	702	713	707	573	343	631	473	327	306	299	254	299	272	244	341	297	459	360	367	399	345	424	507	500	653	508	449	440	461	454	414	400	422	406
SRev CCGT-Gas		1530	1604	1660	1517	1573	1580	1669	1676	1668	1677	1718	1512	1136	1013	958	1080	976	624	628	555	545	782	679	575	754	781	1040	1050	883	591	312	287	342	197	387	363	326	209	291	169	333	413	320	440	513	356	314	267
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
SRev ST-Gas		44	45	44	44	45	44	44	45	45	45	45	45	44	44	44	45	44	44	45	45	44	44	45	44	44	44	45	45	45	45	9	-6	-6	-6	-3	-5	-5	-5	-5	-6	-3	-6	-5	-6	-6	-6	-3	
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 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		338	338	338	338	338	426	426	426	426	338	338	426	338	275	338	426	338	338	338	338	187	0	338	338	338	426	426	426	338	338	338	151	151	151	151	338	338	338	187	187	151	151	338	338	338	338	338	338
Hydro		207	223	353	344	347	308	300	326	297	333	340	297	295	426	294	294	296	372	283	136	199	327	230	379	386	390	396	391	448	418	276	485	490	414	459	458	527	485	426	389	444	502	396	458	515	502	485	498
S.Reserve Total		2380	2484	2658	2717	2875	2925	3081	3105	3081	3122	3169	2993	2619	2477	2428	2563	2453	1956	1642	1710	1454	1485	1602	1641	1781	1945	2183	2161	2060	1694	1435	1297	1344	1155	1336	1580	1693	1527	1552	1248	1371	1503	1509	1685	1774	1590	1553	1506