

Daily System Generation Summary on Friday

Friday, September 30, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,504 MW
Distillate	0 MW
Total TNB	2,504 MW
Total IPP	17,556 MW
Total Co-Gen	0 MW
Total System	22,641 MW

Generation Mix

Type	MWh	Percentage
Hydro	27,876	7.57 %
Gas	46,016	12.49 %
Total TNB	73,892	20.05 %
ST-Coal	202,120	54.85 %
LSS	5,550	1.51 %
Gas	86,396	23.45 %
Total IPP	294,066	79.81 %
Co-Gen	758	0.21 %
Total Co-Gen	758	0.21 %
Total Generation	368,716	100.07 %
PLTG	1,893	0.51 %
HVDC	-1,650	-0.45 %
Interconnection	243	0.07 %
Net Energy	368,473	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:	16:00:00 Hour
Total Set On Bus	18,719 MW
TNB Generation	3,650 MW
IPP Generation	13,416 MW
Spinning Reserve	1,617 MW
Maximum Demand	17,085 MW
Net Energy	368,473 MWH
Load Factor	89.86 %

Fuel Cost

Total Cost:	116,605,216.56 RM
Cost per Unit	31.62 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,147
Hydro	243
Syncon	447
Thermal	210
Total	2,047

Time Weather Temperature

Afternoon	Rainy	27
Morning	Rainy	24

Gas Usage

Station	(mmscfd)
GLGR	46
TJGS	175
Total TNB	220
CBPS	39
EMPP	198
NPRI	77
PCGP	87
PGLA	88
PLPS	50
SKSP	46
SPGP	97
Total IPP	682
Total Gas	903
Total Gas Required	903

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	15503	14666	14177	13580	13278	13061	13238	13214	13538	15007	15814	16407	16523	16209	16600	16957	17085	16643	15820	16170	16631	16399	15967	15603

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 5, 2022 9:35:32 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	213	213	214	214	215	214	214	213	214	214	214	213	213	213	249	389	470	706	702	703	714	703	705	703	706	705	705	705	706	707	706	706	706	704	708	705	702	706	704	704									
JMAH	U002	406	208	217	214	214	214	214	214	214	214	214	216	213	214	214	217	214	214	213	214	326	585	704	703	705	707	713	703	704	705	705	707	705	707	704	704	705	703	705	707	709	703	705	705					
JMHE	U001	984	986	983	940	901	899	846	846	851	846	848	849	846	852	848	850	849	850	961	972	980	979	979	977	978	977	984	983	975	979	979	979	980	981	979	977	983	981	977	981	977	978	979	978	974	977			
JMHE	U002	978	980	978	946	901	897	847	849	849	851	846	851	846	852	849	849	849	850	982	979	980	980	977	979	978	978	980	981	977	980	981	981	979	980	981	981	979	980	981	980	977	980	975	977					
JMJG	U001	673	668	672	672	669	671	671	672	673	672	675	672	672	673	672	668	673	669	673	671	672	672	671	670	671	673	668	674	673	678	679	672	670	671	668	673	672	669	671	673	671	667	672	670	672	669	672	671	
JMJG	U002	601	600	604	604	595	598	605	599	602	604	597	601	602	597	596	670	679	675	673	677	677	673	678	679	671	673	662	677	672	675	677	674	674	669	682	669	679	671	671	682	676	672	677	671	677	680	668	674	
JMJG	U003	321	319	318	317	317	318	317	318	318	318	320	318	318	317	318	321	319	319	320	321	321	321	321	312	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMJG	U004	972	973	975	966	911	904	876	854	855	856	854	855	854	854	856	856	856	854	892	953	977	977	976	976	979	976	977	973	980	978	979	978	976	980	975	980	977	978	977	981	978	975	979	976	977				
JMJG	U005	955	954	952	949	900	898	862	853	850	852	854	853	851	853	854	854	854	852	942	961	961	958	959	962	957	961	960	962	962	960	959	962	959	961	960	962	961	960	959	958	962	957	960	961	962	960	958	960	
PKLG	U003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	4	15	20	19	22	34	34	32	33	30	50	44	38	46	47	46	56	55	56	52	52	51	52		
PKLG	U004	155	151	152	152	158	156	154	153	153	156	156	159	157	157	158	156	157	156	157	163	244	263	273	272	270	270	274	272	273	275	273	275	273	274	276	272	277	274	271	275	269	273	272	275	274	275	274	273	
PKLG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	137	162	164	167			
PKLG	U006	269	269	269	269	269	269	269	269	270	267	269	270	269	269	268	269	268	268	268	294	381	448	445	445	450	450	450	448	448	447	444	443	445	447	449	448	453	450	448	448	449	446	449	448	450	449	450	449	
TBIN	U002	703	571	376	241	210	212	214	214	213	213	213	214	213	214	215	212	214	219	330	531	675	693	477	344	238	211	212	213	212	213	212	213	212	212	214	210	213	200	11	0	0	0	0	0	0	0	0		
TBIN	U003	603	491	302	218	211	212	212	212	211	213	212	212	211	212	212	212	211	212	697	702	699	698	701	701	698	699	700	700	700	700	700	700	701	699	699	702	700	699	700	703	698	700	698	703	698	698	697		
TBIN	U004	874	875	876	876	872	873	853	854	853	852	856	853	852	854	853	852	852	856	873	876	872	873	874	877	874	871	875	873	871	871	874	873	874	873	874	871	873	871	873	873	872	874	873	872	872	872	872		
Total ST-Coal		8707	8258	7888	7578	7343	7335	7154	7120	7126	7127	7128	7134	7120	7134	7123	7197	7211	7325	7955	8335	8720	8947	8972	8916	9159	9137	9158	9168	9186	9204	9200	9188	9184	9187	9195	9215	9213	9194	9189	9028	8988	8990	9011	9000	9142	9163	9141	9155	
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	269	264	270	268	269	260	262	260	263	260	260	256	260	268	252	190	201	242	235	249	254	262	253	264	235	193	192	195	198	201	193	204	208	201	202	201	201	201	206	244	247	253	248	245	195	201	195	199	
EMPP	BLK1	712	705	713	710	710	708	707	709	697	706	712	694	698	709	725	708	708	705	712	696	711	695	687	672	629	682	709	681	712	719	709	529	412	374	374	416	714	695	711	703	710	688	690	618	566				
EMPP	BLK3	712	705	713	710	709	708	708	711	710	707	709	697	707	712	694	698	708	726	710	707	704	710	697	711	695	686	676	633	680	680	708	681	712	719	709	522	411	373	374	416	713	695	711	706	704	687	696	615	559
GLGR	GT01	110	107	67	68	67	66	67	64	67	65	65	67	67	67	66	65	66	66	66	67	65	65	66	67	66	65	65	66	65	67	66	63	66	66	66	65	65	67	67	65	67	64	65	65	66	65	65		
GLGR	GT02	109	108	65	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	65	65	66	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	66	66	65	66		
GLGR	ST1C	99	98	77	70	71	71	70	71	70	71	70	71	71	71	70	70	70	70	70	71	71	71	71	71	71	71	72	71	71	71	72	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71		
NPRI	BLK2	515	508	523	518	516	514	514	512	515	513	511	505	511	521	500	385	400	533	512	512	510	520	504	520	503	506	505	512	514	519	506	523	524	518	515	479	399	430	455	521	514	521	514	515	337	310	302	308	
PCGP	PGRG	595	580	614	604	599	590	595	588	595	589	589	573	589	606	569	573	602	636	589	590	587	604	571	601	571	578	574	583	593	602	579	610	620	603	604	600	555	420	613	615	591	605	593	598	589	601	583	593	
PGLA	GT11	217	213	220	218	217	216	216	167	133	133	133	134	134	137	137	136	137	137	137	136	137	136	136	136	136	136	136	136	136	136	136	137	136	137	136	132	132	141	133	171	133	134	134	134	132	0			
PGLA	GT12	221	217	223	221	221	219	219	171	137	137	137	137	136	136	140	140	140	140	140	139	139	140	139	139	139	136	139	140	139	140	140	140	140	140	140	140	138	136	174	137	136	174	137	136	137	136	158		
PGLA	ST10	237	236	239	237	235	235	235	201	180	180	180	180	180	182	182	182	182	182	181	182	182	182	182	181	182	182	182	183	183	182	182	182	183	182	183	182	180	180	180	181	180	206	180	180	180	180	111	83	
PLPS	GT11	111	107	114	112	111	63	62	62	62	62	62	62	62	61	62	61	61	62	62	62	61	62	61	61	62	61	62	62	62	61	62	62	62	61	62	62	62	62	62	62	62	62	62	62	62	128	128	129	
PLPS	GT12	118	115	121	119	120	65	64	64	64	64	63	64	64	64	65	64	69	69	69	68	70	68																											

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	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	9	9	9	9	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7	7	7	7	7	7	
HTRG	HY01	63	26	-1	-1	63	63	-1	-1	-1	-1	-1	-1	-1	-1	62	62	62	-1	65	63	63	118	63	63	
HTRG	HY02	-1	-1	-1	-1	63	64	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	119	117	119	119	120	100	100	
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	HY01	31	31	31	31	32	31	32	32	32	32	32	32	31	31	31	31	31	31	31	31	31	31	31	31	
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	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	99	99	100	100	100	100	99	91	94	100	65	65	100	100	100	99	99	99	99	100	100	100	100	100	
KNYR	HY02	103	104	103	103	103	104	103	103	101	96	61	68	60	61	61	104	103	103	103	103	103	103	103	103	
KNYR	HY03	102	102	102	102	101	101	100	100	100	66	66	66	95	96	100	100	100	101	100	101	100	99	99	100	
KNYR	HY04	100	100	101	101	101	100	100	100	60	60	60	60	59	60	101	102	101	101	100	101	101	101	101	101	
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	16	16	18	17	17	18	16	16	16	16	16	16	16	
LPIA	HY02	17	17	17	17	17	17	17	17	17	17	17	17	16	16	15	14	15	16	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	111	111	111	110	111	111	110	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	113	112	112	112	113	112	113	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	51	51	
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	
SIHY	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	
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	
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	
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	
TMGR	HY01	32	30	32	80	44	-1	-1	-1	0	0	-1	-1	0	-1	1	80	79	81	80	80	80	80	80	80	80
TMGR	HY02	59	44	86	85	68	45	47	83	55	48	83	44	46	86	42	41	86	85	47	48	45	83	42	85	
TMGR	HY03	30	28	30	80	40	40	40	40	41	40	40	37	39	41	36	37	40	80	80	80	34	80	80	79	
TMGR	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	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	88	92	83	93	97	107	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	96	99		
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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro		829	773	794	890	925	857	728	765	740	687	644	610	561	638	551	555	682	892	933	934	837	967	924	1126	
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	1	1	3	12	14	19	20	25	20	26	28	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	5	8	17	8	28	21	21	9	15	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	5	6	19	20	15	19	22	27	26	22	22	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	8	10	14	22	25	33	26	36	41	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	12	22	20	26	39	32	36	25	40	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	10	7	19	24	11	14	12	10	11	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	8	21	12	24	23	29	34	32	31	45	14	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	9	11	15	20	24	29	29	27	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	18	17	36	36	42	28	39	33	50	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	11	17	60	47	41	63	65	85	69	56	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	8	15	33	23	23	26	45	39	40	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	7	22	15	13	17	18	24	27	20	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	12	23	28	49	71	71	68	65	65	65	65	

Daily MW Generation on Friday

[illegible]