

Daily System Generation Summary on Thursday

Thursday, September 22, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,278 MW
Distillate	0 MW
Total TNB	2,278 MW
Total IPP	17,952 MW
Total Co-Gen	0 MW
Total System	23,977 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,098	5.48 %
Gas	51,744	14.10 %
Total TNB	71,842	19.57 %
ST-Coal	192,287	52.39 %
LSS	4,767	1.30 %
Gas	96,604	26.32 %
Total IPP	293,658	80.01 %
Co-Gen	1,087	0.30 %
Total Co-Gen	1,087	0.30 %
Total Generation	366,587	99.88 %
PLTG	1,275	0.35 %
HVDC	-1,719	-0.47 %
Interconnection	-444	-0.12 %
Net Energy	367,031	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:	16:30:00 Hour
Total Set On Bus	18,628 MW
TNB Generation	3,490 MW
IPP Generation	13,469 MW
Spinning Reserve	1,624 MW
Maximum Demand	17,059 MW
Net Energy	367,031 MWH
Load Factor	89.65 %

Fuel Cost

Total Cost:	119,646,778.94 RM
Cost per Unit	32.59 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	803
Hydro	246
Syncon	571
Thermal	149
Total	1,769

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Rainy	25

Gas Usage

Station	(mmscfd)
GLGR	46
SRDG	1
TJGS	88
Total TNB	135
CBPS	39
EMPP	280
KLPP	22
NPRI	70
PCGP	88
PGLA	40
PLPS	63
SKSP	48
SPGP	208
Total IPP	858
Total Gas	992

Total Gas Required 992

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	15057	14348	13874	13457	13131	13031	13361	13370	13747	15377	15981	16412	15964	15615	16264	16683	16940	16787	15969	16177	17006	16687	16120	15791

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 5, 2022 9:19:02 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	713	713	709	706	706	706	705	703	705	705	706	705	707	707	703	707	706	706	705	705	704	705	707	714	706	704	528	405		
JMAH	U002	0	0	0	0	0	0	0	0	0	0	0	98	195	212	214	333	458	630	695	705	705	706	703	543	354	353	354	353		
JMHE	U001	978	974	976	901	900	903	850	851	851	849	852	850	851	849	850	853	849	851	908	964	974	975	971	972	976	975	974	972	978	
JMHE	U002	443	320	315	270	269	268	263	89	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JMJG	U002	674	676	668	672	669	674	678	677	671	678	673	676	671	679	674	674	677	673	672	679	672	675	617	580	587	679	674	674	673	
JMJG	U003	671	672	668	671	672	668	673	667	672	668	674	670	672	669	669	673	666	671	671	673	667	662	677	668	671	677	667	673	672	
JMJG	U004	973	972	949	901	900	902	855	852	854	854	852	853	854	854	854	853	853	887	946	954	973	977	976	973	977	975	976	974	973	
JMJG	U005	975	972	925	898	900	900	846	844	848	848	850	849	851	848	848	851	850	929	979	983	979	983	979	981	976	978	979	977	978	
PKLG	U006	448	448	448	446	450	448	447	450	448	449	449	450	448	448	448	446	449	446	446	450	445	446	450	447	445	445	436	417	418	
TBIN	U002	705	705	704	704	702	703	707	704	703	703	707	699	703	709	701	700	702	701	702	701	702	701	705	707	701	702	702	702	701	
TBIN	U003	697	699	698	695	697	697	696	697	698	696	696	696	700	698	696	695	696	695	698	697	698	696	697	696	696	695	696	695	695	
TBIN	U004	871	875	874	869	868	872	854	853	853	851	854	856	851	855	854	853	854	872	873	874	872	873	875	873	873	874	873	871	872	
Total ST-Coal		8148	8026	7939	7733	7733	7739	7570	7390	7305	7301	7311	7310	7306	7406	7501	7516	7518	7769	8060	8306	8382	8404	8345	8303	8316	8250	8051	8043	8041	
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	
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	
CBPS	BLK2	253	201	201	201	202	202	201	201	202	200	202	201	202	201	202	260	255	254	261	252	257	194	197	200	201	205	264	262	270	
EMPP	BLK1	680	701	466	409	425	411	411	412	429	418	414	409	412	411	414	421	463	707	722	695	689	707	679	692	443	422	410	423	613	
EMPP	BLK2	690	701	700	709	460	524	475	480	464	419	415	440	607	691	497	453	463	691	708	692	689	695	682	689	651	425	408	425	619	
EMPP	BLK3	690	700	699	708	710	587	549	547	512	474	463	495	669	708	568	520	711	708	723	697	693	711	711	710	640	704	706	706	710	
GLGR	GT01	67	67	67	66	66	66	67	65	67	66	68	67	67	66	65	66	67	68	66	66	67	66	66	65	65	67	66	65	65	
GLGR	GT02	65	66	66	66	66	66	67	66	66	66	66	66	66	66	66	66	66	66	67	66	67	67	66	66	66	66	66	66	66	
GLGR	ST1C	70	70	70	70	70	70	70	70	70	70	70	70	71	70	70	70	70	70	70	70	70	70	70	69	70	70	70	71	71	
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	40	40	80	80	148	148	110	110	110	110	110	110	
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	26	37	69	69	70	67	60	56	57	56	58	57	57	57	
NPRI	BLK2	517	309	310	310	309	308	308	309	311	305	309	310	310	309	307	307	310	517	527	517	513	519	506	514	509	512	517	516	521	514
PCGP	PGRG	596	600	600	603	603	600	599	600	607	600	602	603	603	600	596	597	600	604	621	596	591	603	579	593	585	590	600	593	608	
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	26	25	26	76	75	75	105	114	115	130	119	221	223	214	
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGLA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	51	105	108	107	110	
PLPS	GT11	62	62	62	62	62	61	61	61	61	62	62	62	62	61	62	62	62	61	62	61	63	61	131	136	132	136	136	136	136	136
PLPS	GT12	69	69	69	69	69	69	70	69	70	69	69	69	70	69	69	69	69	69	69	69	69	69	143	144	139	143	144	144	145	
PLPS	ST18	93	93	93	91	92	92	92	92	91	91	93	92	92	91	92	91	93	92	92	91	93	135	143	141	140	141	142	142	141	
SKSP	BLK1	224	224	225	224	226	223	226	226	226	225	225	228	227	227	224	226	229	274	220	233	244	277	255	323	331	335	333	314	288	
SPGP	BLK1	722	725	725	724	725	725	725	723	724	726	723	724	723	724	722	723	723	723	723	722	722	722	735	722	718	722	712	721	714	
SPGP	BLK2	721	724	722	724	724	723	724	722	722	725	723	723	723	721	722	722	722	732	720	716	723	711	720	711	718	721	722	721	717	
TJGS	GT2A	124	131	131	131	131	131	132	132	132	132	132	132	132	130	130	133	132	131	132	218	218	218	218	131	131	130	217	217	217	
TJGS	GT2B	120	128	127	127	128	127	128	128	128	125	128	128	128	127	127	128	126	128	127	214	214	214	214	127	127	128	127	213	213	
TJGS	ST2C	206	194	194	194	194	194	194	194	194	194	194	194	194	194	194	194	252	252	252	252	193	193	194	193	193	193	252	252	252	
Total CCGT-Gas		5969	5765	5527	5488	5262	5179	5099	5101	5075	4963	4963	5010	5359	5468	5157	5096	5355	6068	6277	6415	6417	6576	6665	6570	6053	5965	6056	6054	6624	
Total 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	
BSIA	HY01	22	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	12	11	11	11	11	11	11	11	11	11	11	11	11	
BSIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	11	11	11	11	11	11	11	11	11	11	11	11	11	
BSIA	HY03	23	23	23	23	23	23	23	23	23	23	23	22	23	22	22	22	22	22	22	11	10	10	10	10	10	10	10	10	10	
CEND	HY01	9	9	9	9	9	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	HY02	9	9	9	9	9	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	HY03	9	9	9	9	9	9	9																							

Daily MW Generation on Thursday

[illegible]

Daily MW Generation on Thursday

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		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	15	12	15	9	30	30	27	16	30	25	16	22	21	30	30	21	13	25	17	6	2	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	19	117	200	217	254	299	439	517	614	603	556	671	628	684	674	631	538	529	441	356	263	147	96	28	20	0	0	0	0	0	0	0	0	
KHTC	BLK1	1	2	3	4	3	3	3	2	0	2	0	4	3	3	3	2	1	2	0	0	1	2	1	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	
PCUF	CUFG	18	19	16	16	18	17	20	18	18	16	17	19	16	15	16	18	17	18	18	18	17	17	17	17	17	17	16	18	18	17	17	18	17	18	18	18	18	18	19	19	19	19	18	17	18	18	18		
PCUF	CUFK	25	28	25	25	26	28	27	28	26	26	28	28	27	26	27	26	25	26	26	26	26	27	25	27	27	25	26	26	27	28	25	26	28	28	27	27	26	26	26	27	26	28	26	25	25	25	26	26	
Total Co-Gen		44	49	44	45	47	48	50	48	44	44	45	51	46	45	45	47	44	45	44	44	44	46	43	44	46	42	43	42	45	46	42	43	46	45	45	44	44	44	46	46	49	47	44	45	47	46	47		
Total Gen		15060	14689	14309	14068	13824	13648	13383	13183	13089	12973	12983	13014	13355	13563	13345	13341	13677	14744	15268	15817	15940	16288	16366	16331	15817	15565	15574	15540	16166	16520	16655	16771	16889	17004	16777	16290	15994	15766	16147	16983	17020	16863	16661	16438	16101	16017	15762	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		-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-99	-30	-30	-30
TIE-PLTG		57	-6	10	-2	4	39	-15	19	18	44	13	5	53	60	24	23	53	52	14	81	83	75	80	91	-30	46	85	71	23	76	88	64	64	69	110	106	144	103	81	66	136	58	96	36	103	30	26	26	
Interconnection		27	-36	-20	-32	-26	9	-45	-11	-12	14	-17	-25	23	30	-6	-7	-46	-47	-85	-18	-16	-24	-19	-8	-129	-53	-14	-28	-76	-23	-11	-35	-35	-30	11	7	45	4	-18	-33	37	-41	-3	-63	4	0	-4	-4	
System Total		15057	14753	14348	14119	13874	13669	13457	13224	13131	12990	13031	13069	13361	13552	13370	13379	13747	14810	15377	15861	15981	16329	16412	16357	15964	15640	15615	15595	16264	16569	16683	16822	16940	17059	16787	16304	15969	15773	16177	17039	17006	16927	16687	16516	16120	16042	15791	15441	
SRev ST-Coal		110	127	214	350	353	347	363	541	632	355	347	346	354	416	420	426	421	374	281	207	131	109	168	210	197	163	112	120	122	155	142	139	103	189	128	123	118	132	108	121	108	121	105	110	120	111	174	176	
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	2	58	0	0	0	0	0	0
SRev CCGT-Gas		959	1163	1401	1440	1666	1749	1829	1827	1853	1965	1965	1918	1569	1460	1924	2216	1957	1316	1107	969	967	808	719	814	1331	1419	1586	1588	889	496	593	443	442	739	887	1207	1367	1523	1108	687	772	719	711	753	1051	1073	1155	1136	
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 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		741	741	741	741	741	829	741	829	766	678	766	829	829	829	917	678	917	917	917	741	741	590	741	741	741	892	741	741	741	741	615	464	428	428	615	590	741	741	741	151	151	151	338	489	489	615	615	464	
Hydro		110	160	210	207	227	152	171	103	232	233	233	104	103	103	104	235	103	109	101	149	149	275	151	147	148	194	194	174	175	172	219	315	264	268	140	243	117	114	104	260	430	399	368	390	420	319	317	410	
S.Reserve Total		1920	2191	2566	2738	2987	3077	3191	3387	3483	3318	3311	3284	2942	2895	3365	3642	3398	2716	2406	2066	1988	1782	1779	1912	2417	2668	2633	2623	1927	1564	1569	1361	1237	1624	1770	2163	2343	2510	2061	1219	1463	1448	1522	1742	2080	2118	2261	2273	