

Daily System Generation Summary on Thursday

Thursday, January 20, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,542 MW
Distillate	0 MW
Total TNB	2,542 MW
Total IPP	16,654 MW
Total Co-Gen	0 MW
Total System	22,114 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,234	6.30 %
Gas	46,413	12.58 %
Total TNB	69,647	18.88 %
ST-Coal	169,746	46.01 %
ST-Oil	5,183	1.40 %
LSS	3,170	0.86 %
Distillate	18,475	5.01 %
Gas	99,789	27.05 %
Total IPP	296,363	80.33 %
Co-Gen	1,208	0.33 %
Total Co-Gen	1,208	0.33 %
Total Generation	367,218	99.53 %
PLTG	-1,037	-0.28 %
HVDC	-694	-0.19 %
Interconnection	-1,731	-0.47 %
Net Energy	368,949	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,631 MW
TNB Generation	3,501 MW
IPP Generation	13,820 MW
Spinning Reserve	1,257 MW
Maximum Demand	17,418 MW
Net Energy	368,949 MWH
Load Factor	88.26 %

Fuel Cost

Total Cost:	94,784,347.11 RM
Cost per Unit	25.33 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	301
Hydro	465
Syncon	294
Thermal	518
Total	1,578

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	60
TJGS	170
Total TNB	229
KLPP	40
NPRI	117
PGLA	114
PLPS	37
SGB3	55
SKSP	59
Total IPP	422
Total Gas	651

Total Gas Required 1,061

Alternate Fuel Usage

Station	(mmscfd)
KLPP	81
NPRI	189
PLPS	72
SGB3	18
PKLG	51
Total	411

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	14734	14043	13520	13148	12826	12757	13031	13119	13620	15221	16033	16428	16346	16255	16987	17264	17403	17097	16119	15847	17132	16960	16335	15962

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, February 3, 2022 5:23:09 PM

(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	501	401	353	353	354	353	354	355	355	354	354	353	352	355	371	504	502	608	603	602	670	693	693	630	632	695	692	694	691	690	692	691	692	691	690	653	652	693	691	692	692	690	693	692	574			
JMHE	U001	500	501	502	500	501	499	501	500	499	501	499	501	501	497	502	503	501	501	501	497	500	497	498	502	502	499	497	501	499	500	503	500	498	499	502	501	503	654	648	498	501	500	498	499	501			
JMHE	U002	498	501	500	499	500	500	501	500	499	501	500	503	502	498	499	500	498	505	501	498	502	498	496	500	497	498	504	501	502	647	651	650	652	650	503	497	499	498	499	501	500	499	501	503	500	498	500	501
JMJG	U001	667	668	672	667	665	666	666	614	599	598	545	546	546	631	668	672	672	670	670	667	668	678	672	671	670	673	672	673	672	667	670	671	671	677	672	674	671	676	673	672	669	673	671	672	674	671	669	672
JMJG	U002	671	666	671	669	668	667	668	616	601	598	545	548	548	632	674	671	671	674	670	672	668	673	672	673	670	673	667	671	671	675	675	667	679	675	671	668	678	670	677	671	665	672	678	667	675	674	676	674
JMJG	U004	757	756	759	757	755	754	754	757	756	758	755	756	755	758	755	756	755	755	757	756	756	757	755	758	752	757	755	754	790	804	823	850	907	950	947	944	903	901	901	904	902	902	901	843	786	759	758	759
JMJG	U005	751	751	751	750	749	752	752	746	753	751	750	749	750	748	748	752	749	752	750	750	750	750	751	750	752	752	749	832	944	948	943	945	946	941	931	900	902	901	900	900	900	898	789	744	752	750	750	
PKLG	U003	256	256	253	253	259	159	154	153	154	155	139	159	159	198	196	158	159	235	251	247	254	260	245	256	244	250	255	253	227	234	245	255	253	256	255	253	252	254	255	257	256	257	256	256	256	255	256	
PKLG	U004	280	279	280	281	272	191	150	149	149	152	152	154	156	191	196	157	146	257	276	277	280	283	283	281	279	279	277	280	278	278	281	278	277	278	279	278	276	275	277	273	273	278	271	275	274	272		
PKLG	U006	443	450	446	446	447	376	307	272	270	268	269	267	270	328	386	390	432	446	449	448	452	449	447	451	449	449	446	448	449	448	447	450	450	449	448	445	448	449	449	449	449	449	450	449	449	447	449	449
TBIN	U001	571	500	376	351	351	349	350	352	352	351	351	349	353	350	349	350	363	504	497	611	598	597	689	690	684	630	630	689	687	686	688	685	684	685	688	687	689	649	649	687	687	688	686	687	687	689	644	
TBIN	U002	578	513	375	354	352	352	353	353	354	353	353	353	354	352	350	352	364	508	500	585	603	603	674	693	692	632	632	693	693	693	690	694	693	696	695	694	690	649	653	692	691	692	690	693	692	690	652	
TBIN	U003	593	507	398	352	352	352	353	353	353	355	354	353	352	353	352	353	367	508	500	589	606	603	663	693	691	629	629	690	696	689	689	691	687	696	690	693	687	651	631	696	692	686	693	689	694	687	690	677
Total ST-Coal		7066	6749	6336	6232	6225	5970	5862	5719	5693	5696	5567	5592	5602	5891	6026	5967	6044	6820	6826	7209	7241	7254	7513	7610	7568	7350	7353	7598	7688	7956	7999	8026	8091	8148	7981	7956	7885	7728	7715	7900	8030	8029	7890	7718	7618	7587	7593	7381
PKLG	U002	250	250	250	249	250	203	154	146	146	146	146	146	146	183	173	147	160	241	249	249	249	249	250	250	249	203	203	203	203	203	202	203	247	237	236	236	236	236	235	235	235	235	245	249	250	250	250	
Total ST-Oil		250	250	250	249	250	203	154	146	146	146	146	146	146	183	173	147	160	241	249	249	249	249	250	250	249	203	203	203	203	203	202	203	247	237	236	236	236	235	235	235	235	245	249	250	250	250		
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		
EMPP	BLK1	697	706	707	709	703	707	709	709	704	703	712	718	724	710	696	711	706	710	711	689	711	709	694	708	700	710	712	709	710	706	704	708	711	710	701	706	706	706	710	725	708	708	712	707	701	704	705	703
EMPP	BLK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	201	286	352	392	391	389	392	387	134	135	9	0	0	0	0	0	0	0	38	183	184	204	225	307	307	307	382	423	418	501	
GLGR	GT01	103	104	104	104	104	104	104	103	104	104	105	105	105	104	104	104	105	104	105	103	104	103	103	104	103	104	105	102	103	102	104	104	103	103	103	104	104	106	104	104	104	104	105	105	104	104		
GLGR	GT02	105	104	105	104	104	104	104	104	104	104	104	104	104	105	104	104	105	104	104	105	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		
GLGR	ST1C	93	93	93	93	93	93	93	93	93	93	93	93	93	92	93	93	92	93	93	92	93	93	93	93	92	93	94	94	94	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93		
KLPP	GT13	142	140	140	142	141	142	142	141	142	141	139	140	140	140	142	140	139	142	141	140	138	140	142	141	142	142	141	141	141	140	139	140	140	140	139	140	140	140	140	141	141	141	140	141	141	141	142	
KLPP	ST17	203	203	202	203	203	202	202	203	203	203	196	196	203	203	203	202	202	203	203	202	202	203	203	203	202	202	203	201	202	202	201	201	201	201	201	201	201	201	201	201	202	202	202	202	202	202	203	202
NPRI	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138	318	531	530	527	532	528	534	525	526	526	526	525	528	524	528	531	525	523	529	523	524
NPRI	BLK2	505	511	513	518	510	514	515	516	511	509	524	525	533	518	503	517	510	512	519	496	518	530	501	516	509	512	511	520	519	515	514	518	514	520	510	515	511	512	513	528	511	514	517	512	509	514	507	509
PCGP	PGRG	584	588	593	602	590	595	596	600	592	589	609	612	620	603	583	603	591	594	602	571	602	603	582	598	590	597	596	601	602	599	594	600	601	602	589	597	592	594	597	617	596	595	599	593	589	597	588	590
PGLA	GT11	213	215	216	218	214	217	217	218	215	214	220	221	222	218	211	219	215	217	218	210	217	216	211	215	212	215	214	217	215	215	215	216	213	214	214	215	215	220	215	215	217	211	214	215	214	215		
PGLA	GT12	218	219	218	221	219	220	220	222	220	219	224	225	227	223	216	224	218	220	222	214	222	221	214	218	215	218	219	220	221	218	220	220	221	217	219	219	219	219	220	226	220	219	221	220	218	220	220	219
PGLA	ST10	235	235	235	239	235	236	237	237	236	234	238	240	241	239	235	238	238	234	238	235	241	242	238	240	240	241	242	243	240	242	240	242	241	241	239	240	241	240	239	244	238	241	239	237	237	238	237	235
PLPS	GT11	119	120	120	124	120	121	122	124	121	118	123	128	130	123	119	124	121	123	124	118	1																											

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
CHLS	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
GELS	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
GNLS	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
JELS	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
JSLs	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
KKLS	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
MCLS	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
SPLs	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
SSLs	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
STLS	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
TBLS	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
Total 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
PCUF	CUFG	28	28	28	28	28	28	28	27	28	29	29	28	29	28	28	28	27	27	29	28	28	28	29	28
PCUF	CUFK	24	25	26	25	25	24	25	26	25	25	25	26	24	25	24	26	25	25	24	25	25	25	24	24
Total Co-Gen		52	53	54	53	53	52	53	53	53	54	54	54	54	53	32	33	33	34	35	51	54	52	53	53
Total Gen		14656	14364	13964	13711	13471	13203	13055	12841	12759	12742	12649	12716	12887	13221	13085	13247	13581	14430	15119	15590	15950	16208	16393	16488
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
TIE-HVDC		-28	-28	-28	-28	-30	-30	-29	-29	-29	-29	-28	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-49	-65	-51	-56	-20	-57	-63	-65	-38	-34	-79	-76	-116	-55	-6	-73	-10	-84	-73	12	-52	-77	-6	-78
Interconnection		-78	-94	-79	-84	-49	-87	-93	-94	-67	-62	-108	-104	-144	-84	-34	-101	-39	-113	-102	-18	-83	-106	-35	-107
System Total		14734	14458	14043	13795	13520	13290	13148	12935	12826	12804	12757	12820	13031	13305	13119	13348	13620	14543	15221	15608	16033	16314	16428	16595
SRev ST-Coal		726	731	719	726	736	828	827	915	917	914	919	918	920	898	817	814	784	762	728	736	720	700	550	461
SRev CCGT-Gas		270	264	256	160	254	241	232	208	252	271	169	161	119	315	600	285	229	246	262	355	185	304	289	212
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
SRev 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
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
SRev Distillate		142	141	141	130	140	137	139	134	141	141	297	290	171	134	142	127	132	129	125	138	127	33	43	37
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
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
Syncon		651	651	651	500	840	840	840	1029	1029	1029	1029	1029	878	928	1029	1029	739	840	651	651	651	187	187	500
Hydro		195	192	188	579	369	364	363	266	271	273	183	176	327	255	310	255	372	395	212	269	229	266	547	365
S.Reserve Total		1984	1979	1955	2095	2339	2410	2401	2552	2610	2628	2597	2574	2415	2530	2898	2510	2256	2372	1978	2149	1912	1490	1616	1575