

Daily System Generation Summary on Thursday

Thursday, December 2, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,363 MW
Distillate	0 MW
Total TNB	2,363 MW
Total IPP	15,498 MW
Total Co-Gen	0 MW
Total System	20,567 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,277	5.02 %
Gas	28,295	7.77 %
Total TNB	46,572	12.79 %
ST-Coal	215,915	59.28 %
LSS	1,101	0.30 %
Gas	100,351	27.55 %
Total IPP	317,367	87.14 %
Co-Gen	1,280	0.35 %
Total Co-Gen	1,280	0.35 %
Total Generation	365,219	100.28 %
PLTG	283	0.08 %
HVDC	720	0.20 %
Interconnection	1,003	0.28 %
Net Energy	364,216	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:	11:30:00 Hour
Total Set On Bus	18,088 MW
TNB Generation	2,229 MW
IPP Generation	14,354 MW
Spinning Reserve	1,452 MW
Maximum Demand	16,596 MW
Net Energy	364,216 MWH
Load Factor	91.44 %

Fuel Cost

Total Cost:	77,869,701.87 RM
Cost per Unit	21.32 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	875
Hydro	408
Syncon	478
Thermal	175
Total	1,936

Time Weather Temperature

Afternoon	Hot	30
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	45
TJGS	88

Total TNB 134

CBPS	47
KLPP	57
NPRI	142
PGLA	100
PLPS	69

Total IPP 416

Total Gas 550

Total Gas Required 550

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	15642	14873	14426	13975	13539	13156	13210	13299	13836	15438	16269	16529	16200	15685	16094	16333	16262	15922	15285	15821	16065	15784	15313	14910

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:29:30 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	705	709	706	707	706	706	704	706	704	707	706	655	658	655	654	653	696	695	697	698	699	698	698	694	696	694	696	696	696	696	696	696	698	697	697	697	697	696	699	698	697	698	697	698	697	697	697			
JMAH	U002	704	704	705	710	707	704	702	705	708	707	705	659	655	654	652	657	679	691	703	696	696	698	692	696	698	692	696	694	696	694	695	695	695	688	694	699	689	694	702	697	681	696	695	700	697	691	697	697		
JMHE	U001	969	974	971	969	928	929	875	879	882	877	878	881	879	878	875	879	879	884	942	964	963	975	974	968	972	963	975	978	964	969	972	971	970	972	972	973	968	969	973	969	970	966	973	980	974	970	971	898		
JMJG	U001	673	674	677	674	672	645	651	649	649	649	645	645	645	646	647	646	648	644	665	668	673	668	672	640	640	644	641	640	640	643	643	644	644	644	644	644	644	644	644	644	644	680	680	680	680	680	680			
JMJG	U002	682	690	672	677	678	642	649	654	640	657	634	654	645	645	652	645	649	649	644	659	648	647	649	649	654	662	677	662	671	667	667	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683		
JMJG	U003	673	677	672	669	675	648	646	637	651	645	640	645	643	643	648	643	643	649	657	643	645	637	639	660	664	667	665	668	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667	667		
JMJG	U004	856	856	854	853	854	857	855	855	855	855	853	854	855	855	854	854	854	854	865	863	865	864	863	864	863	864	866	864	866	867	867	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863		
JMJG	U005	887	888	888	889	892	891	887	892	889	892	892	890	890	894	889	851	832	836	829	832	879	891	892	892	891	887	892	892	887	895	895	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	
PKLG	U003	280	279	279	279	279	279	221	153	155	155	155	155	156	156	206	244	247	244	245	244	275	277	276	278	279	276	277	275	278	277	279	279	278	279	280	280	280	279	278	278	275	276	275	277	250	206	205			
PKLG	U004	277	277	276	275	275	273	231	147	155	155	156	156	155	156	212	206	239	245	244	241	242	260	276	275	272	277	281	277	278	280	277	276	276	278	277	271	277	276	275	276	278	275	277	276	275	240	207	206		
PKLG	U006	450	449	446	449	446	447	436	380	355	354	307	272	269	305	345	362	406	407	406	406	405	440	450	448	450	448	447	448	448	449	450	449	448	446	449	446	449	450	448	449	445	450	449	449	448	447	449	446		
TBIN	U001	698	695	697	698	701	698	682	600	600	630	598	557	565	600	648	647	622	690	691	690	690	685	690	687	690	692	692	689	689	689	689	689	690	689	690	690	691	688	689	692	691	691	690	691	690	691	693			
TBIN	U002	700	700	702	699	702	700	684	603	596	635	602	544	571	602	653	641	622	695	686	693	691	692	692	692	690	696	693	689	693	687	687	687	686	689	692	696	691	690	691	694	691	692	690	692	693	691	694	693		
TBIN	U003	701	699	700	704	703	703	693	602	602	634	601	549	561	599	653	638	642	690	688	690	690	687	686	688	690	688	691	687	687	686	686	686	686	689	689	691	692	690	689	689	690	689	689	691	692	686	690			
Total ST-Coal		9255	9271	9245	9252	9218	9122	8916	8462	8441	8552	8372	8116	8147	8288	8588	8528	8655	8876	8961	8988	9030	9122	9145	9132	9145	9151	9188	9165	9156	9167	9168	9177	9178	9176	9188	9192	9179	9186	9191	9188	9170	9180	9237	9247	9241	9167	9096	9023		
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		
CBPS	BLK2	361	370	359	218	226	228	217	229	223	223	215	226	224	223	210	224	229	229	228	340	348	293	287	340	334	292	297	351	338	356	362	359	359	362	362	362	364	364	360	358	353	353	335	311	342	252	292	354		
EMPP	BLK1	531	681	758	761	758	769	770	769	768	766	769	768	770	768	772	771	771	770	774	773	698	699	699	545	544	546	465	465	465	375	374	374	373	375	373	374	224	374	376	377	375	374	381	769	375	766	727	772		
EMPP	BLK2	0	0	0	0	227	376	693	567	557	224	416	566	573	575	353	353	570	568	572	375	333	333	374	375	375	377	375	375	375	376	375	375	375	375	375	375	374	0	0	0	0	0	0	0	0	0	0	0		
EMPP	BLK3	371	369	370	370	369	372	369	371	370	370	371	370	371	370	371	369	370	371	369	370	762	764	764	763	762	762	761	762	760	652	376	375	375	376	375	374	375	375	499	759	762	763	760	760	762	760	761	762		
GLGR	GT01	68	69	67	67	67	68	66	68	68	67	68	69	68	67	66	68	67	68	69	67	68	67	68	67	67	68	68	67	68	69	67	69	69	69	69	69	69	104	94	66	70	69	68	67	68	67				
GLGR	GT02	68	68	68	69	68	67	68	68	68	68	68	68	68	68	68	69	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	69	68	68	68	68	105	94	68	68	68	68	68	69			
GLGR	ST1C	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	71	71	89	90	72	71	71	71	71	71	71				
KLPP	GT13	122	127	128	127	127	127	122	131	127	128	124	127	127	128	123	131	128	131	133	131	128	135	131	141	129	133	136	132	131	135	135	135	136	135	135	136	135	135	136	139	141	141	133	132	133	138	133	133	124	129
KLPP	GT14	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KLPP	ST17	134	85	66	66	65	66	64	66	66	65	66	67	66	65	65	67	67	68	67	67	66	123	145	141	142	143	141	144	144	144	144	144	144	144	144	144	144	144	144	144	139	141	143	143	142	131	66	66		
NPRI	BLK1	519	522	513	395	326	331	314	332	332	329	318	329	327	329	311	331	331	456	519	520	523	512	506	509	498	508	514	510	506	506	520	520	518	519	521	519	520	524	520	515	511	512	524	459	515	491	395	461		
NPRI	BLK2	522	524	515	471	331	334	317	338	337	335	323	335	333	335	315	335	338	341	449	524	527	512	493	497	496	506	512	510	506	503	519	518	516	517	519	523	518	521	517	515	511	511	523	459	518	397	503	517		
PCGP	PGRG	268	266	262	262	263	263	261	267	260	263	261	263	261	262	262	267	263	446	502	604	600	593	586	590	573	351	281	281	280	282	284	283	281	282	286	284	283	289	282	283	282	280								

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					
CEND	HY01	9	9	8	8	9	8	9	9	9	9	9	9	9	9	9	8	9	8	9	9	9	9	9	9	9	9	8	8	8	9	9	9	9	8	9	8	9	8	8	8	8	8	8	8	8	8	8	8	8			
CEND	HY02	8	9	8	8	8	8	8	9	9	8	8	8	8	8	8	8	8	8	8	9	8	8	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
HTRG	HY01	118	63	63	63	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
HTRG	HY02	117	62	63	63	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	0	0	0	0		
HTRG	HY03	3	3	3	3	3	3	4	4	4	4	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			
HTRG	HY04	3	3	3	3	3	3	4	4	4	4	4	4	4	4	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			
KNRG	HY01	34	34	34	34	34	34	34	34	34	34	22	23	22	23	34	34	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34		
KNRG	HY02	35	35	35	35	35	35	35	35	35	35	24	24	24	24	35	35	24	24	25	25	24	24	24	24	24	24	24	24	24	24	24	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
KNRG	HY03	34	34	34	34	34	34	34	35	34	34	22	23	22	23	34	34	24	24	24	24	24	24	23	24	24	24	24	24	23	34	35	35	35	35	35	35	35	35	35	35	35	34	35	34	35	35	35	35	35	35	35	
KNYR	HY01	96	96	96	96	96	0	0	0	0	0	0	0	0	0	0	0	0	60	59	60	61	57	56	56	54	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	
KNYR	HY02	92	92	90	91	89	0	0	0	0	0	0	0	0	0	0	0	0	62	61	61	62	58	58	58	55	60	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	
KNYR	HY03	96	97	97	97	97	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	54	53	54	55	51	50	50	48	97	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
KNYR	HY04	98	71	59	65	59	98	56	83	60	69	55	58	62	64	55	61	61	60	59	60	60	57	57	57	54	99	98	97	98	97	98	97	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
LPIA	HY01	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	28	28	28	28	28	28	28	25	25	25	25	25	25	25	25	25			
LPIA	HY02	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
MNOR	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	0		
PGAU	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	0		
PGAU	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	0		
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	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	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	0	0	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	0		
SYPS	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																			

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
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	29	27	24	26	26	27	24	26	25	25	25	27	26	26	28	28	28	28	28	28	28	28	28	28
PCUF	CUFK	28	27	26	25	26	27	26	27	26	24	25	26	27	25	24	21	27	26	28	25	24	26	25	25
Total Co-Gen		57	54	50	51	52	54	50	53	51	49	50	53	53	51	53	52	49	56	55	56	52	53	54	53
Total Gen		15753	15265	15010	14624	14537	14214	14113	13728	13595	13386	13237	13191	13232	13382	13375	13501	13935	14876	15362	16095	16306	16512	16555	16636
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		30	30	30	30	30	30	31	31	29	29	30	30	29	31	31	31	30	30	30	30	31	31	30	30
TIE-PLTG		81	38	108	76	80	35	108	15	27	33	51	-33	-7	-45	45	10	68	-59	-106	10	7	-28	-4	9
Interconnection		111	68	137	105	111	65	138	46	56	63	81	-3	22	-16	76	41	99	-28	-76	40	37	2	26	40
System Total		15642	15197	14873	14519	14426	14149	13975	13682	13539	13323	13156	13194	13210	13398	13299	13460	13836	14904	15438	16055	16269	16510	16529	16596
SRev ST-Coal		76	60	86	79	113	209	333	532	535	510	557	630	641	638	571	649	612	362	289	259	280	211	188	201
SRev CCGT-Gas		1165	1136	1298	1703	1911	1892	1984	1860	1892	1901	1948	1899	1896	1891	1990	1880	1889	1301	974	489	359	331	397	317
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-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 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		0	187	374	374	500	814	901	901	988	901	901	901	901	901	901	901	626	626	500	500	500	500	500	500
Hydro		268	343	275	267	213	105	133	98	128	108	176	170	168	162	153	82	272	351	376	361	389	430	435	434
S.Reserve Total		1514	1731	2038	2428	2742	3025	3356	3396	3548	3425	3587	3605	3611	3597	3620	3517	3404	2640	2139	1609	1528	1472	1520	1452
		1837	2217	2387	2372	2288	1911	1683	1648	1626	1656	1938	2165	1998	2236	2109	1937	2135	2223	2420	2888	2845	3171	2660	2680