

Daily System Generation Summary on Thursday

Thursday, November 4, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	15,140 MW
Total Co-Gen	0 MW
Total System	20,800 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,934	5.31 %
Gas	45,532	14.27 %
Total TNB	62,466	19.58 %
ST-Coal	182,710	57.26 %
LSS	2,976	0.93 %
Gas	69,540	21.79 %
Total IPP	255,226	79.99 %
Co-Gen	1,198	0.38 %
Total Co-Gen	1,198	0.38 %
Total Generation	318,890	99.94 %
PLTG	-909	-0.28 %
HVDC	718	0.23 %
Interconnection	-191	-0.06 %
Net Energy	319,081	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:	19:30:00 Hour
Total Set On Bus	16,888 MW
TNB Generation	3,211 MW
IPP Generation	11,668 MW
Spinning Reserve	1,960 MW
Maximum Demand	14,869 MW
Net Energy	319,081 MWH
Load Factor	89.41 %

Fuel Cost

Total Cost:	69,011,372.18 RM
Cost per Unit	21.64 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,674
Hydro	202
Syncon	786
Thermal	341
Total	3,003

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	45
TJGS	79
Total TNB	125
CBPS	45
KLPP	40
NPRI	116
PGLA	96
PLPS	37
SGB3	35
SGRI	65
Total IPP	434
Total Gas	559
Total Gas Required	559

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	14236	13678	13209	12715	12595	12321	12283	11944	11537	12051	12649	12971	13066	13171	13538	13684	13801	13678	13519	14371	14731	14616	14304	14092

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 6:41:14 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	U002	705	701	704	706	707	705	707	704	702	707	704	704	709	707	701	655	607	696	699	697	696	697	695	697	690	693	693	695	696	696	698	694	696	696	695	697	696	692	695	697	701	697	695	695	693	699			
JMHE	U001	975	977	973	891	852	851	795	803	803	805	800	802	798	801	799	802	800	800	799	803	858	851	852	850	847	850	888	890	889	889	887	891	895	890	894	892	890	892	939	976	973	975	975	944	923	895	886	890	
JMHE	U002	977	983	979	889	848	850	794	802	801	799	800	804	797	799	796	798	799	800	800	803	853	851	852	849	846	850	890	891	891	889	887	892	895	890	892	890	890	893	943	976	978	976	976	917	923	891	888	892	
JMJG	U001	671	671	670	675	668	671	671	670	668	672	670	673	672	671	670	599	593	601	651	668	672	672	669	672	675	678	671	674	675	669	668	669	672	673	668	673	670	672	671	671	669	672	672	667	672	671	673	665	
JMJG	U002	676	674	667	677	672	671	667	674	673	677	673	673	674	672	671	603	598	595	641	672	678	667	671	671	674	667	678	673	678	671	677	670	672	672	673	669	679	683	667	672	674	671	674	672	673	675	672	672	
JMJG	U005	891	891	891	890	801	797	800	796	809	801	803	800	801	798	799	800	801	801	800	800	799	799	798	801	817	866	890	892	891	891	891	892	892	892	892	892	898	892	889	894	892	890	889	891	889	889	894	889	891
PKLG	U003	280	276	281	281	274	280	279	279	280	266	180	157	156	158	157	157	158	157	159	222	271	281	281	279	276	273	282	277	273	272	271	273	273	278	279	279	280	275	276	276	276	276	276	275	277	281	279		
PKLG	U004	277	279	274	274	273	274	272	271	272	260	187	156	157	156	157	158	156	158	158	228	253	276	277	270	272	273	270	271	261	261	266	266	269	270	269	270	271	272	271	267	272	277	272	275	272	269	275		
PKLG	U005	464	465	470	472	461	462	462	459	461	443	345	289	269	269	269	268	270	268	269	270	296	366	444	470	469	467	464	464	464	465	468	467	461	466	464	466	466	393	464	473	466	468	472	467	467	465	466	461	
PKLG	U006	449	450	449	447	449	449	446	446	448	424	350	280	268	267	270	267	269	268	268	323	409	441	446	444	446	446	448	447	446	447	449	436	445	445	447	449	453	445	448	449	447	450	446	449	452	449	448	449	
TBIN	U001	130	214	211	297	301	327	437	622	678	698	689	707	700	697	695	649	599	653	649	690	690	659	649	689	683	687	686	687	690	686	687	687	687	686	684	686	687	686	686	684	686	687	688	685	687	685			
TBIN	U002	701	701	701	701	701	701	696	702	694	697	702	700	702	702	698	654	602	653	652	693	691	674	652	692	692	692	692	691	690	693	692	692	692	692	693	690	693	692	692	691	692	690	692	691	691	692	692	692	
TBIN	U003	350	350	350	350	349	348	349	351	348	351	351	348	349	348	348	349	349	351	349	351	351	350	349	348	346	348	349	349	349	349	349	349	349	349	348	351	349	351	348	350	348	349	349	348	349	351	349		
Total ST-Coal		7546	7632	7620	7550	7356	7386	7375	7579	7637	7600	7254	7093	7052	7045	7034	6758	6600	6802	6890	7087	7443	7551	7634	7741	7734	7792	7895	7905	7907	7879	7886	7875	7897	7891	7899	7908	7913	7844	7995	8071	8061	8069	8087	7976	7972	7910	7895	7899	
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			
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			
CBPS	BLK2	353	361	354	354	345	287	282	333	291	292	331	368	371	369	279	271	303	216	215	220	213	218	225	282	294	221	217	240	219	342	298	278	316	323	254	222	224	305	342	307	307	321	292	315	294	294	226	219	
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	350	500	500	500	500	500	500	500	500	500	514	205			
GLGR	GT01	69	69	68	70	71	69	67	68	68	69	68	69	69	69	68	67	68	68	68	68	69	69	67	66	68	68	67	66	68	67	66	68	67	68	68	67	68	66	67	67	67	67	68	69	68	68	68		
GLGR	GT02	68	68	69	68	68	69	68	69	68	69	68	68	67	68	69	68	68	69	68	69	68	68	68	68	68	68	67	68	68	68	67	68	68	68	68	68	67	69	68	68	68	68	69	68	69	68	68	68	
GLGR	ST1C	71	71	72	72	72	71	71	71	71	72	72	72	71	71	71	72	72	71	71	71	72	72	72	72	72	72	73	72	73	72	73	73	72	73	72	73	72	72	72	72	72	72	72	72	72	72	72	72	
KLPP	GT13	123	122	115	123	120	119	118	123	120	124	126	127	123	117	123	128	128	129	128	124	128	128	128	124	129	125	128	129	132	131	131	135	131	132	132	132	132	131	131	128	132	132	131	132	131	132	131	131	
KLPP	GT14	113	120	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	140	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	201	143	132	66	66	64	64	65	65	65	67	65	64	65	64	65	67	66	66	65	65	67	66	66	65	66	65	65	65	65	66	65	67	65	66	66	66	66	66	66	67	67	67	67	67	66	67		
NPRI	BLK1	508	519	500	515	516	506	429	380	368	313	321	323	320	321	292	319	318	316	313	313	305	317	320	322	301	322	308	322	320	323	320	322	327	320	320	320	320	322	448	494	502	500	393	395	315	319	318	317	
NPRI	BLK2	512	524	505	520	520	508	430	379	369	313	321	323	319	320	292	320	317	314	314	313	307	314	320	320	302	320	307	323	319	323	320	322	326	320	319	319	319	322	320	307	317	313	313	315	314	318	317	317	
PCGP	PGRG	262	266	262	261	262	262	260	263	263	260	263	266	260	264	263	261	262	261	263	261	263	260	262	261	262	262	260	266	262	267	262	264	271	263	263	262	262	264	439	447	444	444	447	495	362	400	468		
PGLA	GT11	214	168	182	166	208	204	164	170	165	167	171	172	169	170	161	170	170	168	167	167	164	167	169	168	163	170	164	170	170	170	169	170	170	171	169	169	169	170	169	171	212	166	168	167	168	168	168		
PGLA	GT12	218	172	187	170	212	209	167	174	170	171	174	175	172	175	164	174	174	172	172	171	168	172	172	173	167	172	169	174	174	173	174	176	173	174	173	172	174	175	216	170	172	169	172	170	173	172	172		
PGLA	ST10	237	210	214	210	232	228	203	203	203	202	205	205	205	201	205	205	202	202	204	202	203	206	206	205	206	205	207	207	207	207	207	208	208	207	207	205	207	207	207	238	213	205	203	204	202	203	204	204	
PLPS	GT11	111	128	128	128	128	128	129	128	129	128	129	129	129	129	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
BSIA	HY02	23	23	23	23	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
CEND	HY01	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	HY02	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
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
HTRG	HY02	123	123	123	123	123	123	63	63	63	63	63	63	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	35	35	35	34	34	34	34	34	34	34	34	34	34	24	24	25	25	24	25	25	25	24	25	24
KNRG	HY02	36	36	36	36	36	36	36	36	36	36	36	36	36	23	23	23	24	24	24	24	24	23	23	23
KNRG	HY03	35	35	35	35	35	35	35	35	35	35	35	35	35	21	21	22	21	22	22	22	22	21	21	21
KNYR	HY01	97	0	0	0	0	0	57	53	61	92	92	92	92	92	92	92	92	96	96	96	96	97	96	96
KNYR	HY02	97	100	98	100	98	98	58	58	54	61	99	99	99	94	59	59	98	99	97	97	99	99	99	99
KNYR	HY03	97	98	98	98	98	98	57	58	54	61	97	97	97	93	60	59	58	97	97	97	97	97	97	97
KNYR	HY04	97	99	98	99	99	98	58	57	54	61	98	98	98	93	59	58	58	98	97	98	98	98	98	98
LPJA	HY01	23	23	23	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
LPJA	HY02	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
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	19	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	19	-1	-1	-1	-1
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	48	48	47	47
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	50
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	50	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3
TMGR	HY01	44	82	42	42	72	40	39	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	-1	-1	-1	-1	-1	-1	40	41	75	82	73	88	37	44	45	44	43	44	41	44	45	59	41	44
TMGR	HY04	51	51	48	51	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	83	-1
UJLI	HY02	0	0	0	0	0	0	0	-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
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
Total Hydro		821	768	722	727	693	658	657	518	533	518	582	732	722	737	670	500	477	548	627	619	582	543	593	609
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	3	4	4	16	16	18	20	21	25	27	28
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	11	13	23	17	14	11	14	18	20
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	6	8	14	31	28	25	32	30	23
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	14	17	14	18	28	20	26	30
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	11	15	16	16	9	18	0	0
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	12	8	23	26	27	28	26	28
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	16	15	22	35	43	34	26	45
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	14	19	36	41	28	38	37	23
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	8	15	32	31	31	35	46	39	42
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	8	8	24	24	28	30	18	20	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	8	12	19	18	16	14	50	43
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	15	30	38	42	48	51	29	52	29
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	23	19	39	34	39	35	34	37
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	6	5	5	7	21	29	26	17
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	9	12	30	30	27	30	30	30	30

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																								
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	28	71	126	204	277	373	394	417	407	437	423	452	426	389	362	323	276	236	150	90	56	36	5	0	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	25	24	26	25	24	24	26	27	27	26	27	28	26	27	27	27	26	24	23	24	22	23	23	22	23	20	22	22	23	23	23	23	23	25	24	23	25	24	23	23	23	23	23	24	26			
PCUF	CUFK	26	27	25	26	27	27	25	26	25	25	26	26	26	26	24	27	25	26	26	27	26	25	25	26	24	27	25	26	24	25	25	25	26	26	27	28	25	24	25	24	25	25	26	25	27	27		
Total Co-Gen		51	51	51	51	51	49	52	52	52	52	53	54	52	53	53	51	54	51	50	49	51	48	48	48	47	47	47	48	47	48	48	48	49	49	52	52	48	49	49	47	48	48	49	48	51	53		
Total Gen		14216	13869	13601	13376	13173	13055	12771	12819	12637	12484	12279	12322	12247	12252	11976	11658	11547	11773	12015	12276	12659	12758	12945	13122	13085	13117	13194	13475	13499	13718	13777	13781	13828	13733	13724	13641	13544	13633	14402	14928	14703	14701	14589	14522	14253	14061	14036	13793
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			
TIE-HVDC		31	29	29	29	31	30	31	30	29	30	29	31	30	31	30	30	30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30	30	30	29	28	31	31	29	29	29	31	30	30	30			
TIE-PLTG		-47	-130	-101	-73	-64	-44	28	1	16	-15	-68	-65	-62	-120	5	-37	-17	-24	-63	-50	-17	-31	-53	-38	-9	-97	-4	-53	-66	-14	66	9	0	-25	19	-30	-2	-46	6	32	-55	-43	-53	-52	-79	-88	-83	-81
Interconnection		-16	-101	-73	-44	-33	-14	59	30	45	15	-39	-34	-33	-88	35	-7	13	6	-33	-20	13	-1	-23	-8	22	-68	26	-23	-36	16	96	39	30	5	49	0	28	-18	34	62	-25	-15	-24	-23	-48	-58	-53	-51
System Total		14236	13974	13678	13423	13209	13072	12715	12792	12595	12472	12321	12359	12283	12343	11944	11668	11537	11770	12051	12299	12649	12762	12971	13133	13066	13188	13171	13501	13538	13705	13684	13745	13801	13731	13678	13644	13519	13654	14371	14869	14731	14719	14616	14548	14304	14122	14092	13847
SRev ST-Coal		136	150	162	309	424	383	437	450	391	426	499	488	480	498	496	716	786	677	628	499	485	490	477	377	376	326	306	298	295	322	311	330	316	312	309	303	289	334	220	152	162	154	143	247	251	298	303	309
SRev CCGT-Gas		1187	1424	1335	1342	1245	1358	1628	1648	1903	2004	1927	1874	1899	1900	2099	1999	1970	2075	2075	2106	2099	2065	2001	2089	2082	2135	1862	1791	1589	1546	1543	1578	1600	1777	1926	2016	1926	1388	920	1057	1062	1195	1149	1417	1546	1572	1515	
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		
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	
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		426	426	426	426	513	513	513	362	512	699	699	699	699	699	699	674	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	825	638	638	738	738	738	738	738	738	738	
Hydro		134	87	133	129	76	111	112	402	337	351	287	137	147	133	199	394	266	195	116	116	178	217	167	151	324	192	193	169	181	220	221	163	163	295	165	224	219	128	236	255	147	150	148	150	148	148	149	147
S.Reserve Total		1883	2087	2056	2206	2258	2365	2690	2862	3143	3480	3412	3198	3225	3230	3493	3783	3847	3772	3644	3515	3594	3631	3534	3354	3463	3425	3459	3154	3092	2956	2903	2861	2882	2881	3076	3278	3357	3213	2482	1965	2190	2190	2310	2370	2640	2816	2848	2795