

Daily System Generation Summary on Friday

Friday, December 3, 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	16,209 MW
Total Co-Gen	0 MW
Total System	21,415 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,898	6.31 %
Gas	28,174	8.11 %
Total TNB	50,072	14.42 %
ST-Coal	217,679	62.69 %
LSS	1,625	0.47 %
Gas	77,161	22.22 %
Total IPP	296,465	85.38 %
Co-Gen	1,297	0.37 %
Total Co-Gen	1,297	0.37 %
Total Generation	347,834	100.17 %
PLTG	-132	-0.04 %
HVDC	720	0.21 %
Interconnection	588	0.17 %
Net Energy	347,246	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	17,185 MW
TNB Generation	2,915 MW
IPP Generation	13,019 MW
Spinning Reserve	1,197 MW
Maximum Demand	15,917 MW
Net Energy	347,246 MWH
Load Factor	90.90 %

Fuel Cost

Total Cost:	74,244,468.43 RM
Cost per Unit	21.34 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	571
Hydro	505
Syncon	266
Thermal	139
Total	1,481

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	87
Total TNB	116
CBPS	48
KLPP	38
NPRI	138
PGLA	100
PLPS	48
Total IPP	371
Total Gas	488
Total Gas Required	488

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	14198	13646	13267	12838	12592	12542	12674	12801	13106	14406	15143	15670	15510	15053	15356	15783	15818	15575	14943	15338	15837	15400	14860	14399

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:30:24 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	694	699	696	696	697	695	656	655	656	697	696	696	695	693	697	693	695	696	696	693	695	697	696	695	695	697	695																								
JMAH	U002	690	697	697	697	690	690	654	657	655	696	692	695	697	685	695	699	696	692	695	694	695	696	696	694	695	697	695																								
JMHE	U001	894	906	900	901	899	873	879	880	879	882	883	881	879	882	887	882	879	878	881	964	966	982	975	973	969	969	972																								
JMJG	U001	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680																								
JMJG	U002	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683	683																								
JMJG	U003	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680	680																								
JMJG	U004	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863																								
JMJG	U005	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892	892																								
PKLG	U003	206	206	206	154	166	202	154	155	154	153	151	156	151	155	218	284	273	278	277	278	280	280	280	210	207	263	272																								
PKLG	U004	205	200	205	149	157	189	162	161	153	155	159	162	160	158	193	264	277	281	281	279	278	277	277	276	272	272	278																								
PKLG	U006	450	447	447	447	446	448	390	315	271	269	269	269	318	413	446	450	449	445	448	448	449	449	449	449	448	448	448																								
TBIN	U001	689	692	689	689	689	687	650	649	650	649	688	689	687	688	689	686	690	690	689	686	689	689	689	689	689	689	689																								
TBIN	U002	691	695	691	699	691	689	642	654	656	672	696	691	690	691	694	687	690	690	692	689	689	689	689	689	689	689	689																								
TBIN	U003	689	688	687	689	690	688	652	653	654	659	689	691	691	692	692	693	690	691	692	689	691	692	690	691	692	690	691																								
Total ST-Coal		9006	9028	9016	8919	8923	8959	8637	8577	8526	8630	8721	8728	8766	8855	9009	9136	9137	9140	9149	9219	9230	9158	9194	9159	9107	9115	9171	9187	9193	9200	9191	9188	9205	9197	9196	9213	9202	9193	9198	9196	9206	9188	9218	9196	9206	9198	9200	9180			
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	340	219	212	212	234	212	239	219	226	226	244	256	272	285	255	223	233	328	354	353	322	314	336	357	314	328	222	322	324	352	359	356	357	361	349	225	300	298	364	355	355	356	362	356	366	358	363	362			
EMPP	BLK1	377	725	770	670	541	472	447	421	354	207	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0	198	376	747	753	574	216	700	700	561	573	243	378	380	379				
EMPP	BLK3	765	423	375	375	375	376	375	375	373	375	376	375	376	376	376	374	374	375	375	376	376	374	375	375	376	375	375	374	375	374	375	374	375	400	399	401	400	400	400	374	374	375	375	376	373	374	376	375			
GLGR	GT01	68	69	67	95	96	94	94	96	95	96	95	94	95	95	94	95	95	94	95	95	95	95	95	95	95	95	94	96	96	96	95	96	95	96	94	94	95	95	96	95	96	94	95	96	95	97					
GLGR	GT02	68	68	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
GLGR	ST1C	71	71	71	41	40	40	40	40	41	40	41	40	40	40	41	40	40	40	40	41	41	41	40	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41	40	40	40	40	40	40	40			
KLPP	GT13	126	128	125	124	128	124	128	129	128	129	130	129	133	132	129	129	129	129	128	129	128	129	128	129	125	129	129	128	129	128	129	129	129	128	125	129	129	129	129	129	129	128	129	133	129	128	132				
KLPP	ST17	65	66	66	66	67	65	67	66	66	66	67	65	67	66	66	66	66	66	66	66	66	66	66	65	66	65	66	66	66	66	66	65	65	66	66	65	65	66	66	65	67	65	65	67	66	69	66	65	67		
NPRI	BLK1	462	329	316	315	344	310	346	331	329	330	346	350	386	410	342	330	348	512	512	515	511	514	514	517	502	508	508	512	514	518	517	512	515	512	501	399	392	419	515	506	505	506	523	506	520	523	503	508			
NPRI	BLK2	460	329	316	313	329	308	330	327	329	333	330	331	335	329	329	332	517	515	514	515	515	516	520	507	512	511	515	519	523	520	517	515	506	399	394	460	499	487	492	503	389	403	400	400	400	400	403				
PCGP	PGRG	263	261	259	260	263	262	262	260	261	260	266	262	269	269	262	263	260	260	261	447	598	600	613	602	586	591	593	600	599	604	603	602	604	603	585	455	351	260	263	595	322	262	261	261	267	263	262	265			
PGLA	GT11	165	167	163	163	169	162	169	167	167	168	170	168	170	168	168	167	168	168	166	214	216	216	212	167	167	168	168	170	169	189	189	189	164	169	166	166	206	216	216	216	219	215	182	171	170	170					
PGLA	GT12	168	170	168	166	172	166	173	173	171	172	172	174	174	175	172	172	171	171	171	170	216	220	220	216	172	171	173	173	174	173	193	193	192	168	174	171	170	212	221	220	220	224	219	187	175	173	176				
PGLA	ST10	203	200	201	200	204	202	203	203	203	202	204	205	203	205	204	203	203	202	202	204	237	237	239	235	202	205	206	205	206	206	219	219	220	201	205	203	206	230	239	236	236	234	238	221	204	206	205				
PLPS	GT11	130	130	130	130	130	130	130	130	130	130	130	131	130	130	130	129	130	130	129	130	129	130	129	130	130	130	130	126	128	113	116	117	116	112	116	114	117	116	142	145	146	130	113	121	128	130	130				
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	115	112	112	112	108	112	109	110	113	136	142	142	129	109	115	0	0
PLPS	ST18	59	58	59	58	59	58	58	58	58	58	58	57	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	54	131	132	132	131	130	132	132	132	132	132	132	138	142	142	139	130	134	102	59	57			
SPGP	BLK1	360	359	360	361	360	359	361	360	359	359	361	359	359	360	361	360	360	452	725	725	724	726	724	722	724	726	727	723	725	723	721	725	714	720	723	717	506	404	401	723	451	361	362	363	361	362	361	361	361		
TJGS	GT1A	121	131	123	123	128	119	131	128	128	130	128	128	128	124	126	130	128	127	129	183	231	226	230	229	222	201	145	142	202	198	202	225	228	223	176	126	129	127	234	227	225	229	233								

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	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	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	65	65	65	122	63	122	63	63	63	63
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	65	64	64	64	64	64	64	64	64	64	64
HTRG	HY03	3	3	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3
HTRG	HY04	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	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
KNRG	HY02	35	22	22	22	23	22	23	23	23	23	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23
KNRG	HY03	34	22	22	22	23	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
KNYR	HY01	97	53	57	56	59	56	-1	-1	-1	-1	-1	-1	-1	-1	96	95	95	95	95	95	95	95	95	95	95
KNYR	HY02	0	0	0	0	57	60	0	0	0	0	0	0	0	0	99	99	99	99	99	99	99	99	98	98	
KNYR	HY03	94	52	54	54	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	97	96	96	97	97	97	97	97	97	97
KNYR	HY04	99	55	58	57	73	57	75	59	60	61	81	94	101	101	100	99	86	97	92	64	59	80	98	58	63
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
LPIA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
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
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
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
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
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
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
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
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
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	0
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	82	82	82	82	81	81	82	81	81	81
TMGR	HY02	46	43	42	42	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	35	35	35	35	85	85	85	84	85	85
TMGR	HY03	39	41	39	38	56	38	47	41	41	44	61	75	83	83	57	42	55	74	82	79	53	43	67	81	42
TMGR	HY04	83	32	30	29	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	33	32	32	82	82	81	80	82	82	81
UJLI	HY01	-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
UJLI	HY02	-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
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	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	5
Total Hydro		717	465	471	467	379	396	373	290	291	294	334	360	354	355	324	308	517	914	932	1020	969	1219	1265	1392	1241
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	0
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	7	8	7	9	11	13	18
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	13	12	24	25	27	33	31	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	5	8	9	10	11	13	14	14	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	9	15	29	20	21	31	23	23	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	4	4	4	4	4	4	5	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5	9	12	20	26	24	26	27	30	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	8	10	14	24	19	17	22	24	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	23	21	24	17	17	27	29	35	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	8	9	9	11	16	17	15	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	4	6	7	6	7	8	9	9	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	9	10	14	16	16	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	10	13	21	18	28	31	42	39	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	4	5	7	7	7	9	13	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	3	4	6	12	13	15	12	10	

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
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	29	29	28	29	28	28	30	29	29	29	28	29	27	29	28	29	27	28	28	28	29	28	28
PCUF	CUFK	26	27	26	26	27	27	24	28	26	26	26	27	28	26	24	27	25	25	26	26	27	26	25	25
Total Co-Gen		55	56	55	54	56	55	52	58	55	55	55	55	57	54	52	56	54	52	54	54	55	55	54	53
Total Gen		14323	13727	13662	13379	13274	13132	12890	12683	12565	12535	12506	12539	12647	12770	12779	12849	13102	14058	14415	14940	15178	15516	15673	15802
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	29	29	31	31	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		95	-49	-14	44	-24	60	21	-47	-56	-27	-66	-61	-57	-75	-53	-37	-34	17	-21	-60	5	30	-27	-36
Interconnection		125	-20	16	75	7	90	52	-18	-27	3	-36	-30	-27	-44	-22	-6	-4	47	9	-29	35	61	3	-6
System Total		14198	13747	13646	13304	13267	13042	12838	12701	12592	12532	12542	12569	12674	12814	12801	12855	13106	14011	14406	14969	15143	15455	15670	15808
SRev ST-Coal		221	200	216	205	220	228	470	455	453	350	262	261	263	261	210	176	173	169	163	112	101	161	137	172
SRev CCGT-Gas		1581	1960	2012	1988	1835	1955	1826	1869	1868	1857	1812	1812	1738	1700	1815	1860	1833	1297	1003	668	425	297	260	236
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		626	626	626	626	901	901	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	814	374	374	187	187	187	187	187
Hydro		148	400	394	398	211	294	216	199	198	195	155	129	87	86	117	133	112	337	319	418	478	476	530	553
S.Reserve Total		2581	3191	3253	3222	3172	3383	3519	3530	3526	3409	3236	3209	3095	3054	3149	3176	2937	2182	1864	1390	1191	1121	1114	1148
		1463	1659	1879	1702	1547	1306	1191	1065	1076	1067	1392	1947	2575	2556	1955	1197	1849	1998	2048	2119	2222	2150	2178	2284