

Daily System Generation Summary on Friday

Friday, November 26, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,397 MW
Distillate	0 MW
Total TNB	2,397 MW
Total IPP	15,773 MW
Total Co-Gen	0 MW
Total System	20,887 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,966	3.95 %
Gas	33,559	9.49 %
Total TNB	47,525	13.43 %
ST-Coal	207,909	58.77 %
LSS	1,395	0.39 %
Gas	95,512	27.00 %
Total IPP	304,816	86.17 %
Co-Gen	1,281	0.36 %
Total Co-Gen	1,281	0.36 %
Total Generation	353,622	99.96 %
PLTG	563	0.16 %
HVDC	-697	-0.20 %
Interconnection	-134	-0.04 %
Net Energy	353,756	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	17,647 MW
TNB Generation	2,946 MW
IPP Generation	13,394 MW
Spinning Reserve	1,256 MW
Maximum Demand	16,320 MW
Net Energy	353,756 MWH
Load Factor	90.32 %

Fuel Cost

Total Cost:	74,563,161.00 RM
Cost per Unit	21.07 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	367
Hydro	288
Syncon	791
Thermal	505
Total	1,951

Time	Weather	Temperature
Afternoon	Cloudy	32
Morning	Rainy	26

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	92
Total TNB	141

CBPS	47
KLPP	38
NPRI	147
PGLA	104
SKSP	29
Total IPP	365
Total Gas	506

Total Gas Required	506
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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	14463	13770	13394	12993	12704	12513	12753	12847	13411	14807	15482	15848	15737	15377	15751	16147	16271	15951	15411	15817	16075	15782	15203	14813

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 7:02:45 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	696	675	655	621	551	554	503	505	501	454	400	404	456	456	405	405	405	509	690	701	695	697	700	698	699	696	616	605	694	697	695	695	696	697	696	699	697	631	698	694	698	694	698	604	554	505	502	455	413	404
JMAH	U002	694	682	654	642	556	557	504	503	507	454	403	400	455	454	403	404	406	506	680	697	695	694	695	697	690	696	603	605	693	695	695	693	696	697	695	695	695	695	636	694	698	691	601	555	504	503	454	404	406	
JMHE	U001	931	899	874	849	851	851	850	850	847	852	851	851	849	852	849	845	847	856	975	985	978	983	976	977	976	975	976	978	1014	1016	1013	1016	1016	1016	1011	1012	1014	1008	1017	981	979	976	980	978	973	980	979	978		
JMHE	U002	918	900	869	850	851	849	852	848	850	850	850	849	850	848	846	849	852	983	1012	1015	1014	1010	1013	1012	1012	1008	1010	1003	987	981	980	980	982	978	976	983	978	978	981	980	977	981	976	974	983	980	980			
JMJG	U001	542	547	548	549	552	553	521	526	528	527	527	527	527	527	525	535	578	666	669	674	677	670	673	671	673	671	672	671	671	671	672	671	672	672	668	670	672	672	671	671	672	590	553	544	548	545	543			
JMJG	U002	546	554	549	545	549	549	526	526	531	530	530	530	530	530	532	537	604	643	669	671	672	672	676	672	673	668	678	673	672	672	673	669	685	667	676	675	668	673	671	674	671	615	554	551	557	548	550			
JMJG	U003	546	541	548	545	541	545	521	524	521	528	528	528	528	528	520	530	605	667	680	668	666	668	668	666	664	666	668	667	666	666	666	662	665	668	666	676	665	666	667	668	667	595	593	596	538	543	546			
JMJG	U004	905	902	871	854	852	854	854	855	854	853	853	853	854	853	855	854	857	904	958	975	974	975	976	976	977	977	975	976	974	969	972	972	973	974	975	971	973	975	971	973	972	975	969	976	976	972				
JMJG	U005	887	890	848	851	848	849	848	849	854	854	854	854	854	854	851	850	850	895	892	892	892	894	892	887	890	896	890	889	888	892	891	891	891	891	889	890	894	892	892	892	889	891	892	892	895					
PKLG	U003	153	153	154	153	153	150	152	154	155	154	154	152	153	154	154	152	153	153	152	152	153	152	152	152	150	151	151	151	151	151	152	153	153	153	151	152	154	152	153	153	150	151	152	153	153	153	153			
PKLG	U004	157	158	156	155	156	157	157	154	156	154	160	155	158	158	158	157	157	156	157	157	157	158	155	157	154	162	156	157	157	157	158	157	157	157	157	157	157	158	158	156	153	157	155	158	159	158	158			
PKLG	U006	349	271	269	269	269	269	267	267	267	267	268	267	267	273	267	268	268	268	268	268	268	267	268	268	267	268	272	270	269	268	268	269	269	267	270	269	270	269	270	268	268	271	270	272	270	269	268			
TBIN	U001	668	597	567	498	451	451	451	402	402	404	386	376	375	403	402	401	401	401	401	399	399	399	399	398	399	400	399	399	495	499	500	500	500	500	499	547	522	563	650	648	567	498	499	497	449	425	382			
TBIN	U002	671	611	567	512	453	453	453	404	404	403	379	375	374	395	406	403	404	403	403	403	403	402	404	403	402	403	402	456	482	501	502	502	503	501	502	554	537	555	654	651	604	498	503	502	453	422	362			
TBIN	U003	677	603	566	498	452	453	453	403	402	402	370	375	375	406	402	403	404	403	402	403	404	405	404	403	402	401	403	402	452	491	503	501	502	499	503	502	553	541	548	652	652	586	501	503	502	453	430	347		
Total ST-Coal		9340	8983	8695	8391	8085	8094	7914	7770	7779	7686	7512	7498	7603	7687	7592	7566	7599	8002	8885	9047	9046	9054	9043	9050	9028	9030	8867	8857	9172	9313	9330	9336	9337	9359	9333	9339	9502	9302	9512	9763	9754	9361	8810	8609	8587	8320	8137	7944		
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	0	
CBPS	BLK2	223	224	217	223	223	223	225	226	209	215	219	227	220	222	212	219	226	248	221	243	344	357	342	333	355	348	233	346	358	359	358	362	358	360	352	359	356	346	361	361	353	352	353	356	348	360	360	360		
EMPP	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	49	0	0	16	135				
EMPP	BLK2	434	760	763	765	766	768	764	766	768	770	771	767	771	770	770	770	770	747	642	674	482	524	524	373	184	749	762	372	374	375	373	376	375	374	376	375	590	762	761	763	762	765	767	767	767	767	767			
EMPP	BLK3	712	758	760	760	761	761	757	761	763	765	765	762	765	765	765	764	763	763	764	761	762	759	758	758	757	756	754	753	749	750	750	663	595	514	514	361	359	368	15	0	261	764	756	761	762	760	761	499		
GLGR	GT01	67	69	68	70	68	68	69	66	68	68	69	68	67	68	68	68	67	69	69	69	68	68	68	67	68	66	68	69	72	100	100	100	101	99	99	98	100	99	100	99	100	100	100	99	76	79	67			
GLGR	GT02	68	68	68	68	68	68	69	68	68	68	68	68	67	68	68	68	68	68	69	68	68	68	68	68	67	68	67	74	100	100	100	100	100	100	100	101	100	99	100	100	100	101	100	100	75	77	68			
GLGR	ST1C	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	71	71	71	71	71	71	71	72	72	71	72	92	91	92	92	91	91	91	91	91	91	91	92	91	92	92	82	84	72			
KLPP	GT13	127	127	128	127	127	127	127	123	128	128	132	128	128	126	128	128	129	128	132	129	132	126	128	125	128	129	129	129	129	128	128	128	128	125	129	135	136	137	137	138	138	137	137	138	127	128	128			
KLPP	ST17	66	66	66	66	67	66	66	65	65	67	66	67	66	66	65	67	66	67	68	67	67	65	67	65	66	67	67	67	66	67	66	66	66	66	66	66	67	67	67	67	67	67	67	66	67	65				
NPRI	BLK1	517	498	517	520	457	362	329	331	317	320	326	341	331	400	459	508	514	518	448	525	516	524	505	517	505	514	448	515	517	516	515	514	516	515	503	512	515	491	511	515	503	497	512	509	499	515	511	513		
NPRI	BLK2	523	498	445	490	490	361	334	334	322	326	332	348	334	400	445	479	518	520	449	526	517	526	493	518	491	518	449	503	518	515	520	515	518	518	503	514	517	468	507	515	496	479	513	512	485	518	496	516		
PCGP	PGRG	262	260	262	263	261	262	261	263	263	262	262	273	261	262	259	261	262	505	402	608	603	612	590	603	591	602	603	602	604	604	603	599	604	601	586	600	600	578	600	600	591	581	596	597	580	601	596	600		
PGLA	GT11	170	171	170	170	171	170	170	171	165	167	169	173	171	171	168	169	169	171	170	171	169	172	213	217	213	169	169	168	215	216	216	215	215	211	215	216</														

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
HTRG	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
HTRG	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
KNRG	HY01	35	22	22	22	23	22	22	22	22	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22
KNRG	HY02	36	25	24	25	25	25	22	24	24	24	25	25	25	24	25	25	22	22	22	22	22	22	22	22
KNRG	HY03	35	22	21	21	22	21	21	22	21	21	22	22	21	22	21	22	23	23	23	23	35	35	35	35
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	63	90	72	66	98	65	82
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	95	95	95	94	95	58	-1
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	93	55	57
KNYR	HY04	72	95	60	68	99	69	90	79	57	57	58	101	99	97	57	58	101	87	60	88	82	98	76	89
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	20	20	19	16	16	17	20	22	20	21
LPIA	HY02	0	0	0	0	0	0	0	10	22	22	22	22	22	22	23	22	22	23	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY03	0	0	30	30	50	50	50	50	50	49	50	50	50	50	50	50	50	50	50	50	50	50	50	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	81	34
TMGR	HY02	63	87	44	58	87	60	77	67	41	44	45	87	87	87	45	42	88	71	50	75	74	87	70	86
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	81	-1	-1	-1	82	81
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	33	81	82	49	41	47
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	92	89
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
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		310	320	270	293	388	328	366	356	319	322	323	411	409	408	323	340	413	380	331	387	506	537	575	605
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	0	1	4	7	10	11	11	10	9	9	11
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	12	8	20	11	17	20	15
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	10	9	12	13	14	17	16	19
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	6	9	14	17	18	20	28	31
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	5	5	6	9	10	8	7
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	19	18	21	22	26	16	25
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11	15	15	14	22	18	0
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	16	12	17	16	17	21	20
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	6	8	9	13	14	11	11
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	4	3
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	16	23	20	21	34	32	34
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	7	11	12	14	14	14	18	21
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	8	10	12	13	16	13
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	30	70	121	138	167	180	214	215	210
PCUF	CUFG	28	29	29	28	28	28	29	28	28	29	28	29	28	28	29	28	28	28	28	27	27	27	27	28
PCUF	CUFK	25	27	27	25	25	26	27	24	26	25	26	26	24	26	25	24	25	25	26	25	25	27	25	25
Total Co-Gen		53	56	56	53	53	54	56	52	54	54	55	53	54	55	55	51	56	54	52	53	54	54	53	52
Total Gen		14455	14108	13764	13549	13339	13148	12941	12790	12694	12645	12490	12619	12680	12902	12799	12885	13353	14089	14670	15215	15452	15533	15753	15879
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		-29	-29	-29	-28	-28	-29	-29	-29	-30	-30	-29	-29	-29	-28	-29	-29	-29	-29	-29	-30	-29	-28	-30	-30

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																									
TIE-PLTG		32	-49	29	16	-21	-2	-17	6	26	30	12	-59	-38	-70	-12	-55	-22	-123	-102	-60	5	-106	-59	-45	6	-2	-28	10	34	123	76	38	27	112	137	106	107	129	150	106	55	111	55	64	136	73	65	121	
Interconnection		3	-78	0	-12	-49	-31	-46	-24	-4	0	-17	-88	-67	-99	-41	-84	-51	-152	-131	-89	-24	-135	-88	-74	-24	-31	-57	-17	4	93	45	8	-3	82	107	77	79	101	122	78	25	83	27	36	108	42	37	92	
System Total		14463	14197	13770	13567	13394	13185	12993	12820	12704	12651	12513	12713	12753	13007	12847	12976	13411	14248	14807	15310	15482	15674	15848	15960	15737	15631	15377	15622	15751	16033	16147	16267	16271	16216	15951	15613	15411	15145	15817	16320	16075	15901	15782	15526	15203	15088	14813	14546	
SRev ST-Coal		602	809	930	978	999	993	991	999	996	1000	996	997	996	995	995	995	1001	996	578	449	443	438	447	436	457	452	591	580	441	438	456	452	454	429	455	449	437	586	439	394	399	597	738	746	754	732	737	739	
SRev CCGT-Gas		1124	1545	1606	1494	1668	1814	1875	1869	1942	1903	1886	1832	1872	1734	1658	1563	1208	873	1164	798	697	497	364	308	346	452	750	447	287	198	214	201	200	200	250	217	194	373	209	185	250	305	200	211	285	229	267	266	
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 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 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	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		1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1153	1002	1153	1153	1153	1153	1052	1052	965	864	626	590	965	965	965	777	777	777	777	590	403	403	439	777	965	965	403	277	777	626	777	777	864	965	965	965	
Hydro		103	93	178	155	80	140	102	139	176	173	172	89	91	87	171	305	87	114	164	108	140	109	157	228	425	224	240	263	229	273	176	190	297	390	494	396	354	424	485	409	336	595	379	391	397	252	330	156	
S.Reserve Total		2982	3600	3867	3780	3900	4100	4121	4160	4267	4229	4207	4071	4112	3969	3977	3865	3449	3136	3059	2508	2332	2096	1933	1836	1854	1718	2546	2255	1922	1686	1623	1433	1354	1422	1638	1839	1950	2348	1536	1265	1762	2123	2094	2125	2300	2178	2299	2126	