

Daily System Generation Summary on Friday

Friday, December 24, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,537 MW
Distillate	0 MW
Total TNB	2,537 MW
Total IPP	16,492 MW
Total Co-Gen	0 MW
Total System	21,152 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,485	4.08 %
Gas	34,440	9.69 %
Total TNB	48,925	13.77 %
ST-Coal	194,766	54.80 %
LSS	3,222	0.91 %
Gas	107,190	30.16 %
Total IPP	305,178	85.87 %
Co-Gen	1,291	0.36 %
Total Co-Gen	1,291	0.36 %
Total Generation	355,394	100.00 %
PLTG	701	0.20 %
HVDC	-694	-0.20 %
Interconnection	7	0.00 %
Net Energy	355,387	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	17,804 MW
TNB Generation	2,662 MW
IPP Generation	13,901 MW
Spinning Reserve	1,189 MW
Maximum Demand	16,569 MW
Net Energy	355,387 MWH
Load Factor	89.37 %

Fuel Cost

Total Cost:	73,421,213.31 RM
Cost per Unit	20.66 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	217
Hydro	620
Syncon	553
Thermal	352
Total	1,742

Time Weather Temperature

Afternoon	Cloudy	32
Morning	Cloudy	27

Gas Usage

Station	(mmscfd)
GLGR	57
TJGS	104
Total TNB	161
CBPS	53
NPRI	159
PGLA	68
PLPS	1
Total IPP	280
Total Gas	441
Total Gas Required	441

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	14744	14115	13571	13146	12863	12642	12530	12595	12981	14523	15226	15699	15639	15430	15779	16347	16540	16427	15536	15453	16328	16037	15568	15273

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, January 4, 2022 11:21:52 AM Head
(Ir. Shanmugam Thoppalan)
Grid System Operator

Daily MW Generation on Friday

		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	656	507	505	403	405	353	357	300	305	302	304	304	305	304	305	343	355	356	456	635	656	695	694	697	695	695	690	693	696	698	694	697	695	694	697	696	693	698	697	695	697	697	693	698	694	696	698	697	696
JMAH	U002	653	548	505	403	405	353	355	302	304	305	303	305	304	306	343	355	356	456	635	656	695	694	697	695	695	690	693	696	698	694	696	693	697	695	700	695	695	699	696	696	697	695	700	694	696	695	697	694	
JMHE	U001	949	901	902	901	892	850	852	850	800	800	801	801	798	799	800	797	802	880	933	930	930	975	977	976	977	977	979	977	985	976	977	985	979	975	981	973	974	979	979	976	983	979	978	977	978	978	975	977	
JMHE	U002	947	903	899	900	889	848	849	847	801	801	802	801	802	800	798	802	800	882	935	930	930	973	980	979	981	980	981	976	981	974	975	978	973	972	976	968	974	979	973	976	980	974	975	977	977	978	973	975	
JMJG	U001	667	641	643	592	594	597	510	507	442	401	405	407	409	458	535	544	609	668	664	666	672	670	667	671	670	667	673	671	673	671	668	673	671	667	673	671	672	676	670	666	672	670	677	670	676	670	668	671	
JMJG	U002	672	657	641	601	593	597	598	598	596	600	596	596	574	543	551	554	603	662	669	672	671	672	672	671	672	673	673	672	673	669	673	673	672	673	673	670	671	672	671	668	674	671	673	677	672	673	671	673	
JMJG	U004	949	932	899	899	900	851	851	851	803	803	803	804	803	803	801	803	805	862	920	928	941	977	975	973	971	970	967	965	970	968	974	972	978	975	977	973	972	972	974	972	974	972	975	970	975	972	972	957	
JMJG	U005	891	891	890	892	886	851	849	848	800	799	800	800	801	801	801	801	813	887	895	891	891	891	896	892	889	889	888	891	891	891	887	889	894	891	891	887	888	879	889	891	891	888	892	891	887	888	888	890	
PKLG	U003	155	155	156	154	154	153	156	156	155	156	157	156	156	155	156	155	155	155	155	155	155	154	155	154	152	153	154	155	155	154	156	155	155	150	205	205	204	203	191	148	228	243	242	245	243	244	243	239	
PKLG	U006	291	269	270	268	269	268	268	269	268	269	268	269	268	269	268	266	269	269	270	272	269	269	271	268	268	268	271	269	293	341	305	271	299	384	439	447	450	432	407	430	449	447	446	446	447	448	449		
TBIN	U001	597	496	442	400	349	350	299	301	301	301	301	301	300	300	300	302	352	351	450	487	526	563	558	548	551	550	549	552	690	690	690	690	690	690	690	694	690	695	691	693	694	693	694	692	691	690	693	690	
TBIN	U002	599	489	450	403	353	354	302	304	302	303	302	303	303	303	301	303	303	354	352	455	471	525	565	561	551	557	552	552	555	681	631	633	690	690	690	694	690	695	691	693	694	693	694	692	691	690	693	690	
TBIN	U003	601	501	449	405	354	352	299	302	304	304	302	303	303	303	302	303	301	355	353	445	474	529	568	563	552	556	556	553	553	655	655	635	690	690	690	695	689	695	691	688	699	694	693	699	637	694	688	690	
Total ST-Coal		8627	7890	7651	7221	7043	6777	6545	6435	6181	6144	6144	6150	6125	6145	6315	6338	6480	7235	7774	8106	8282	8554	8679	8659	8623	8626	8629	8624	8654	9012	8953	8915	9054	9108	9220	9251	9258	9278	9245	9164	9300	9312	9325	9326	9257	9314	9299	9293	
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	359	357	361	360	354	360	362	355	362	362	357	361	354	362	352	360	361	363	357	358	359	362	354	354	354	362	354	362	362	364	362	369	360	361	367	357	343	283	241	360	357	361	354	354	358	359	362	359	
EMPP	BLK1	710	712	709	710	706	703	711	706	709	709	710	710	711	710	700	707	710	710	709	709	712	711	708	695	701	710	704	712	729	710	708	720	710	709	707	707	707	707	707	707	707	707	707	708	712	708	709		
EMPP	BLK2	757	753	759	752	745	748	759	750	760	761	757	751	754	760	744	756	759	756	759	755	753	755	755	758	760	375	753	754	400	375	750	750	751	752	754	754	754	754	754	754	754	754	754	754	754	760	759	760	760
EMPP	BLK3	111	738	748	747	750	750	751	753	753	753	752	752	753	751	752	748	754	751	750	748	748	747	745	748	750	748	747	745	745	743	745	742	744	744	745	745	745	745	745	745	745	745	745	0	0	0	0	0	
GLGR	GT01	103	106	104	104	103	104	104	103	104	68	69	68	69	92	99	101	101	101	100	100	100	100	100	100	100	100	100	100	99	100	100	101	101	101	99	101	98	99	101	100	100	101	100	100	100	101	100	99	
GLGR	GT02	104	104	103	104	104	103	104	104	104	67	68	68	68	93	101	100	100	100	100	100	100	100	100	100	100	100	100	99	99	100	99	100	98	100	98	100	100	99	99	99	100	100	100	99	100	99	100	102	
GLGR	ST1C	93	93	93	94	93	93	93	93	93	78	71	71	82	91	91	91	91	91	91	92	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91			
NPRI	BLK1	508	512	515	508	506	503	515	505	514	514	515	512	510	515	499	516	515	517	517	515	514	515	506	499	500	517	505	515	522	516	513	520	515	512	521	505	481	491	500	520	509	511	505	503	510	519	509	512	
NPRI	BLK2	512	519	518	512	509	509	519	510	518	518	518	517	516	520	506	524	519	520	520	520	518	519	511	505	507	518	509	522	526	520	517	527	518	516	521	508	485	500	518	524	512	514	508	505	514	520	511	516	
PCGP	PGRG	591	554	603	595	590	591	603	567	573	573	573	570	570	575	563	577	574	574	573	573	571	604	595	584	586	603	590	604	623	601	601	616	604	602	610	588	566	581	603	607	592	596	587	580	595	604	592	599	
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	123	145	165	216	211	213	212	213	215	217	214	216		
PGLA	GT12	214	156	156	213	213	213	216	214	217	217	217	215	215	217	213	217	218	231	223	222	222	223	217	188	203	225	155	158	221	221	222	222	222	221	222	230	186	186	170	220	218	217	219	219	222	218	221		
PGLA	ST10	111	90	90	112	111	110	111	111	112	111	111	111	111	110	111	111	106	114	114	115	114	113	103	112	116	90	92	116	116	116	116	116	117	116	116	113	92	204	209	243	238	236	232	237	238	236	237		
PLPS	GT11	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PLPS	ST18	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SPGP	BLK1	719	717	716	720	720	720	716	717	718	718	719	719	717	719	719	717																																	

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	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	
KNRG	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	33	34	
KNRG	HY02	24	24	24	24	24	24	23	24	24	24	24	24	24	25	25	25	26	25	24	25	24	24	35	35	
KNRG	HY03	21	21	21	21	21	21	21	21	21	21	21	21	21	0	0	0	0	0	0	0	0	20	34	34	
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	60	98	58	49	0	58	94	
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	101	58	-1	61	58	98	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	57	50	58	96	98	
KNYR	HY04	72	55	62	59	58	58	60	95	80	60	59	59	70	59	60	58	83	83	68	65	72	59	58	63	
LPIA	HY01	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	
LPIA	HY02	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	24	24	23	23	23	
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	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
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	
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	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	48	48	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	
TMGR	HY01	58	46	45	44	40	41	43	42	82	71	44	43	42	54	39	43	43	67	61	49	47	52	43	41	
TMGR	HY02	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	35	33	33	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY04	0	0	0	0	30	-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	92	-1	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	5	84	116	91	94	159	95	96	127	
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
UPIA	HY02	6	6	6	6	5	6	5	6	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		311	281	288	284	327	280	280	281	357	331	285	283	281	341	235	242	241	301	295	267	396	409	438	634	441
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	6	10	13	15	17	13	13	20	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	15	18	22	27	28	31	30	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	17	21	24	25	30	31	33	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	9	18	28	33	28	25	21	29	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	11	15	17	22	8	27	19	24	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	18	23	31	36	38	42	48	49	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	12	18	22	26	28	30	30	31	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	9	15	24	29	28	19	21	27	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	17	20	26	31	36	39	42	43	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	17	20	19	26	29	30	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	15	8	19	17	13	36	27	45	49	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	20	26	31	33	40	42	43	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	9	12	16	12	8	14	10	21	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	9	22	22	14	30	22	22	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	31	106	165	250	304	332	359	381	422	
PCUF	CUFG	28	27	28	28	28	29	28	29	28	31	29	27	28	28	27	28	28	28	28	29	28	28	28	28	28

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	
PCUF	CUFK	25	26	27	26	24	26	25	24	25	26	28	25	27	27	26	28	26	25	26	24	26	26	25	25	25	25	24	26	25	25	24	25	25	24	26	26	26	25	25	26	26	26	28	26	25			
Total Co-Gen		53	53	55	54	52	55	53	53	53	55	59	54	54	57	54	57	53	53	54	51	54	54	53	54	53	53	53	56	53	53	53	54	53	52	53	53	52	54	54	55	53	53	54	54	54	57	54	53
Total Gen		14755	14235	14068	13774	13602	13298	13127	12939	12812	12663	12604	12595	12562	12733	12698	12778	13021	13917	14500	14876	15237	15596	15728	15838	15685	15584	15465	15568	15794	16126	16372	16500	16545	16615	16450	15882	15642	15254	15418	16326	16277	16206	16035	15786	15515	15295	15218	15041
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	0		
TIE-HVDC		-28	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-28	-28	-29	-28	-28	-28	-28	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-30	-28	-30	-30	-29	-28	-29	
TIE-PLTG		39	-24	-17	29	60	30	10	43	-21	20	-9	51	61	39	132	79	69	23	5	10	40	8	58	17	74	-18	63	12	43	79	55	-15	34	76	52	111	135	30	-6	-43	-21	35	28	31	-23	-45	-27	-14
Interconnection		11	-53	-47	0	31	1	-19	13	-51	-9	-38	22	32	10	103	50	40	-5	-23	-18	11	-21	29	-12	46	-46	35	-16	15	50	25	-44	5	46	23	82	106	0	-35	-71	-51	7	-2	1	-53	-73	-55	-42
System Total		14744	14288	14115	13774	13571	13297	13146	12926	12863	12672	12642	12573	12530	12723	12595	12728	12981	13922	14523	14894	15226	15617	15699	15850	15639	15630	15430	15584	15779	16076	16347	16544	16540	16569	16427	15800	15536	15254	15453	16397	16328	16199	16037	15785	15568	15368	15273	15083
SRev ST-Coal		579	778	817	859	865	902	900	906	951	953	951	951	952	952	947	951	939	779	670	633	536	412	402	410	411	422	414	418	392	287	394	396	224	234	287	256	249	229	199	237	207	195	182	181	250	193	208	214
SRev CCGT-Gas		210	398	349	202	229	231	178	249	212	296	311	312	322	238	320	291	214	203	217	222	217	174	220	314	279	178	503	392	121	179	189	140	177	228	218	261	489	714	751	188	247	225	261	293	218	187	228	214
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	
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		1028	1028	1028	1028	877	1027	1027	1027	1027	1027	1027	1027	1027	876	1027	1027	1027	1027	1027	1027	840	840	689	277	652	652	753	753	753	479	753	602	652	0	187	464	277	652	652	464	277	464	464	187	338	587	400	587
Hydro		140	170	163	167	361	171	171	170	94	120	166	168	170	347	136	129	130	70	76	104	462	449	657	973	605	471	530	523	469	831	622	648	576	727	782	985	1127	787	604	510	870	788	937	687	517	245	450	447
S.Reserve Total		1957	2374	2357	2256	2332	2331	2276	2352	2284	2396	2455	2458	2471	2413	2430	2398	2310	2079	1990	1986	2055	1875	1968	1974	1947	1723	2200	2086	1735	1776	1958	1786	1629	1189	1474	1966	2142	2382	2206	1399	1601	1672	1844	1348	1323	1212	1286	1462