

Daily System Generation Summary on Friday

Friday, December 16, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,236 MW
Distillate	0 MW
Total TNB	2,236 MW
Total IPP	17,570 MW
Total Co-Gen	0 MW
Total System	23,015 MW

Generation Mix

Type	MWh	Percentage
Hydro	24,929	7.03 %
Gas	54,480	15.35 %
Total TNB	79,409	22.38 %
ST-Coal	175,790	49.54 %
ST-Gas	2,826	0.80 %
LSS	6,150	1.73 %
Distillate	1,757	0.50 %
Gas	88,891	25.05 %
Total IPP	275,414	77.62 %
Co-Gen	576	0.16 %
Total Co-Gen	576	0.16 %
Total Generation	355,399	100.16 %
PLTG	415	0.12 %
HVDC	165	0.05 %
Interconnection	580	0.16 %
Net Energy	354,819	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	18,253 MW
TNB Generation	4,457 MW
IPP Generation	12,555 MW
Spinning Reserve	1,216 MW
Maximum Demand	16,986 MW
Net Energy	354,819 MWH
Load Factor	87.04 %

Fuel Cost

Total Cost:	126,893,259.71 RM
Cost per Unit	35.70 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,109
Hydro	615
Syncon	348
Thermal	157
Total	2,229

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	25

Gas Usage

Station	(mmcsfd)
TJGS	146
Total TNB	146
CBPS	36
EMPP	209
NPRI	153
PCGP	86
PGLA	29
PLPS	75
SKSP	14
SPGP	209
PKLG	27
Total IPP	838
Total Gas	984
Total Gas Required	984

Alternate Fuel Usage

Station	(mmcsfd)
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	14133	13409	12922	12569	12248	12171	12469	12544	13263	14666	15423	15864	15891	15508	15941	16704	16986	16730	15860	15965	16359	16043	15382	14998

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, January 4, 2023 8:50:04 AM

(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	334	208	215	214	214	212	214	213	213	214	215	213	284	395	629	713	707	706	704	704	705	705	707	705	704	705	705	706	705	705	703	705	705	704	707	706		
JMAH	U002	215	214	214	213	214	214	215	214	213	213	215	287	492	703	710	704	705	704	704	706	703	705	707	706	707	702	706	705	705	705	703	704	705	706	704	705	704	
JMHE	U001	929	881	878	831	830	829	798	799	802	800	799	801	803	799	798	800	802	801	961	976	975	969	976	971	972	971	974	976	977	973	968	975	975	974	973	970	974	970
JMHE	U002	927	878	875	834	829	830	797	803	799	800	802	796	800	798	798	803	802	799	958	975	976	972	976	972	971	973	975	976	977	975	970	975	974	973	976	973	977	
JMJG	U001	414	414	414	414	413	413	411	414	414	415	413	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMJG	U002	679	679	624	679	678	680	678	678	679	540	513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JMJG	U003	669	663	668	667	663	675	657	673	662	299	341	385	387	394	399	398	398	399	399	402	408	486	517	546	548	569	603	682	671	675	672	671	669	673	672	679	667	
JMJG	U005	928	877	881	829	829	832	801	801	801	801	798	800	797	800	800	801	801	885	958	976	975	976	976	975	976	976	976	973	489	324	333	335	339	332	338	363	434	
PKLG	U004	155	155	153	154	154	151	156	154	149	155	155	155	155	155	288	276	275	274	274	272	274	274	272	274	268	272	270	273	273	271	275	272	272	273	273	271	272	271
PKLG	U005	268	268	269	269	269	269	269	270	269	268	268	268	268	360	466	464	469	466	464	469	467	466	466	464	468	468	466	466	466	466	468	466	465	468	461	464	466	
PKLG	U006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	302	391	443	449	450	448	450	449	449	449	448	449	447	448	446	446	449	449	
TBIN	U001	696	330	210	213	210	211	211	212	211	233	346	589	700	694	699	699	697	698	699	699	694	698	688	698	695	698	698	698	699	700	698	700	698	694	697	698	694	
TBIN	U002	703	703	703	615	441	244	212	213	212	213	221	411	636	700	699	700	698	700	698	700	700	700	697	700	700	700	700	700	698	700	700	700	700	700	700	700	700	
TBIN	U003	671	671	671	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670		
Total ST-Coal		7588	6941	6775	6602	6414	6230	6089	6114	6094	5621	5759	5373	5995	6373	6625	6935	7022	7017	7421	7530	7543	7926	8048	8122	8132	8124	8161	8198	8279	8260	7760	7614	7617	7605	7632	7611		
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		
PKLG	U006	267	268	269	269	268	269	268	269	269	268	268	268	268	284	266	269	267	273	269	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total ST-Gas		267	268	269	269	268	269	268	269	269	268	268	268	268	284	266	269	267	273	269	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CBPS	BLK2	191	201	198	199	198	198	196	199	199	197	197	201	194	195	193	195	197	205	195	199	201	198	196	193	193	190	189	197	200	199	241	355	302	283	282	285		
EMPP	BLK1	678	710	697	696	704	701	695	708	709	691	705	710	689	688	603	405	532	711	684	711	710	704	691	677	402	396	394	409	411	418	700	459	710	712	711	708	710	
EMPP	BLK2	676	710	697	696	701	697	692	702	709	690	698	709	688	688	404	405	535	711	684	711	710	703	691	670	651	397	394	410	419	709	708	709	711	711	711	708	712	
EMPP	BLK3	676	375	374	551	549	547	552	400	237	91	90	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPRI	BLK1	383	530	523	396	392	394	391	395	307	523	526	530	521	522	521	521	523	535	520	527	531	523	521	519	519	516	514	523	524	526	527	526	527	524	526	525		
NPRI	BLK2	293	398	391	304	302	305	299	305	304	391	393	533	523	388	389	314	511	520	505	514	517	511	509	504	505	502	499	509	517	514	513	516	514	524	530	532		
PCGP	PGRG	572	605	590	595	592	597	586	597	596	590	595	601	586	585	584	486	590	613	582	601	604	592	588	581	584	574	394	393	398	597	596	602	602	604	606	604		
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	24	23	25	81	95	93	92	92	100	101	151	150	150	149	194	147	148	170	146	167			
PGLA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	61	148			
PGLA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	81	84	84	90	85	85	90	86	89			
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	146	136	134	134	136	140	140	138	138	140	139	139	139	139	139		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	77	85			
PLPS	GT13	120	125	124	124	125	124	125	124	123	121	122	123	121	122	121	120	125	123	123	141	142	137	140	137	140	137	137	136	140	140	139	139	140	139	139	141		
PLPS	ST18	59	60	59	58	59	59	59	59	59	59	59	61	59	59	58	58	59	59	105	59	60	61	57	140	143	208	210	210	210	210	210	210	210	211	210			
SKSP	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	15	77	85	118			
SPGP	BLK1	703	720	714	716	714	715	705	717	717	712	709	720	710	705	706	708	712	719	708	716	718	714	708	699	705	702	698	704	711	706	712	711	716	719	717	718		
SPGP	BLK2	703	721	713	716	714	715	709	717	716	713	712	719	710	709	710	713	712	726	711	716	719	716	712	705	697	692	691	700	698	701	713	702	721	723	719	725		
TJGS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	24	136	239	108	108	108	107	110	109	107	109	107	109	107	106	109	107	155	224	225	225	221	223	147		
TJGS	GT1B	129	131	128	132	129	130	130	128	130	132	132	130	131	130	220	100	101	99	103	104	101	99	103	103	100	100	102	101	99	146	217	210	217	215	214	141		
TJGS	ST1C	78	78	78	78	78	78	78	78	78	77	81	82	143	245	146	145	145	145	146	146	146	146	146	146	146	146	146	146	150	245	231	248	248	249	193	180		
TJGS	GT2A	132	132	132	132	133	132	133	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	147	203	132	170	149	132	131			
TJGS	GT2B	127	128	127	128	127	128	127	127	128	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	141	198	127	165	144	127	127	148			
TJGS	ST2C	193	192	193	193	192	192	193	192	193	192	193	192	192	192	192	193	192	193																				

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	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	9	9	9	9	9	9	9	9
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	0	0	0	0	0	0	-1	-1	-1	-1	62	62	62	63	63	-1
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	63	-1	64	-1	-1	-1	-1	-1	64	122	123	99	100	63	63	-1
HTRG	HY03	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	36	36	36	36	36	36	36	0
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	36	37	37	36	36	36	36	0
KNRG	HY03	39	39	39	39	39	39	39	39	39	39	39	39	37	37	37	37	37	37	37	37	37	37	37	39
KNYR	HY01	60	61	61	-1	-1	-1	-1	-1	94	94	61	94	60	-1	-1	60	59	98	99	0	0	0	0	60
KNYR	HY02	62	96	61	60	60	62	62	60	61	60	61	100	60	62	96	63	61	61	61	60	96	61	99	99
KNYR	HY03	53	54	54	53	53	54	54	54	96	97	56	98	53	54	-1	-1	99	99	98	98	97	97	96	96
KNYR	HY04	60	61	60	60	60	60	60	60	101	101	62	100	59	59	59	60	60	59	101	101	100	100	100	100
LPIA	HY01	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	20	20	20	20	20	20
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	19	-1	-1	-1	-1	-1	-1	-1	82	81	83	82	84	22	22
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	83	82	81	100	84	83
PGAU	HY03	21	21	21	21	21	21	21	82	21	120	21	21	21	21	21	21	21	21	22	113	83	84	83	83
PGAU	HY04	21	21	21	21	21	21	21	81	21	146	21	21	21	21	21	21	21	21	22	22	22	112	112	23
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	13	30	30	30	30	30	30	50	50	50	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	50	50	50	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	25	25	25	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	13	17	17	17	17	17	25	25	25	25	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	0
TMGR	HY01	42	84	43	43	44	45	44	43	43	44	42	84	43	43	43	44	83	82	82	82	67	41	72	40
TMGR	HY02	0	0	0	0	0	0	0	0	79	0	30	32	0	0	0	87	86	86	86	86	86	86	86	86
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	2	81	82	82	82	82	82	82	82	82	82
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	80	79	78	78	77	29
UJLI	HY01	108	117	113	113	113	114	111	113	113	112	112	117	111	111	110	85	112	119	109	114	119	113	110	108
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	145	145	141	142	139	82
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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		543	631	594	530	530	535	531	530	531	973	709	1022	722	570	508	448	518	792	938	1010	1212	1319	1261	1227
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	1	4	5	6	9	13	17	13	24	25	25
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	11	15	13	29	28	20	13	18	14
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	12	19	23	24	28	29	31	31	27
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	13	18	33	34	38	44	41	33	42
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	11	22	17	16	20	22	25	20	27
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	16	22	26	27	23	17	18	28
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	22	26	31	37	25	48	30	42	43
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	12	17	18	16	13	15	29	15	30
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	6	21	14	17	19	24	37	28	24
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	20	33	48	62	65	77	79	84	86	47
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	9	25	31	33	37	33	44	44	45
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	15	7	24	26	27	29	28	28

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					
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	18	20	17	27	55	59	73	71	100	86	100	100	79	17	55	83	58	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KRRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	6	8	22	26	16	27	23	28	30	28	23	9	29	14	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
MCCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	8	13	17	35	38	11	17	48	51	49	45	51	39	39	40	26	16	11	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	16	12	24	61	56	29	61	42	90	82	72	66	69	78	68	82	53	56	54	27	1	0	0	0	0	0	0	0	0	0	0	0	0		
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	21	19	29	58	91	103	108	108	108	113	113	113	113	113	108	101	96	38	23	8	8	1	1	0	0	0	0	0	0	0	0	0	0	0	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	13	23	79	37	42	35	49	51	52	52	52	49	41	19	12	19	37	15	10	5	3	1	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	2	5	8	15	22	34	45	40	38	42	44	34	37	34	29	33	38	25	8	2	2	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	1	1	3	8	10	18	9	6	11	16	16	18	18	12	12	14	7	7	10	3	2	1	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	3	6	7	8	9	20	30	30	30	30	30	29	30	30	30	29	30	12	8	17	3	1	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	7	86	182	278	441	567	719	746	798	802	904	867	929	923	786	759	710	706	502	306	179	85	25	3	1	0	0	0	0	0	0	0	0	0	0	0	
ESTL	ESTL	15	15	17	17	16	17	17	17	14	14	13	13	14	19	19	17	14	17	15	14	11	13	13	12	15	16	15	16	11	12	15	15	10	14	14	20	23	22	22	17	15	15	12	13	13	12	13					
KHCTC	BLK1	2	3	3	3	2	1</																																														