

Daily System Generation Summary on Friday

Friday, December 9, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,458 MW
Distillate	0 MW
Total TNB	2,458 MW
Total IPP	16,947 MW
Total Co-Gen	0 MW
Total System	22,912 MW

Generation Mix

Type	MWh	Percentage
Hydro	28,199	8.06 %
Gas	42,516	12.15 %
Total TNB	70,715	20.20 %
ST-Coal	170,912	48.82 %
LSS	2,556	0.73 %
Distillate	10,647	3.04 %
Gas	93,269	26.64 %
Total IPP	277,384	79.24 %
Co-Gen	396	0.11 %
Total Co-Gen	396	0.11 %
Total Generation	348,495	99.55 %
PLTG	-876	-0.25 %
HVDC	-697	-0.20 %
Interconnection	-1,573	-0.45 %
Net Energy	350,068	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:	16:30:00 Hour
Total Set On Bus	18,625 MW
TNB Generation	3,531 MW
IPP Generation	12,511 MW
Spinning Reserve	2,575 MW
Maximum Demand	16,124 MW
Net Energy	350,068 MWH
Load Factor	90.46 %

Fuel Cost

Total Cost:	134,219,633.12 RM
Cost per Unit	38.51 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,760
Hydro	510
Syncon	570
Thermal	47
Total	2,887

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
TJGS	176
Total TNB	176
CBPS	47
EMPP	236
KLPP	27
NPRI	144
PCGP	50
PGLA	46
PLPS	29
SGB3	7
SKSP	35
SPGP	118
Total IPP	738
Total Gas	914

Alternate Fuel Usage

Station	(mmscfd)
EMPP	40
PLPS	39
SGB3	15
Total	94

Total Gas Required 1,008

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	14079	13455	13092	12705	12521	12462	12625	12924	13277	14776	15515	16004	15813	15383	15581	16057	16044	15923	15300	15627	15802	15513	14899	14539

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, January 4, 2023 8:35:28 AM

(Ir. Shanmugam Thoppalan)
Head
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	701	703	703	703	702	704	704	702	704	703	703	702	704	704	707	701	703	702	703	705	703	702	703	702	701	701	703	703	703	704	702	702	702	702	705	703	702	702	702	702	702	704	701	705	703	703	702	701	
JMAH	U002	706	706	704	704	707	705	706	704	706	706	705	707	705	706	704	707	705	705	706	702	702	699	705	707	705	707	702	708	706	707	705	708	707	704	705	706	704	704	701	705	703	707	711	703	699	706	705	706	
JMHE	U001	896	902	899	903	898	852	851	849	853	851	854	852	849	852	853	851	852	864	954	975	979	773	750	750	748	747	744	749	751	751	750	750	751	751	750	750	751	748	750	749	750	830	914	969	970	975	975	978	902
JMHE	U002	898	904	900	901	849	852	845	850	849	850	852	851	850	850	850	849	849	848	958	969	972	767	748	752	747	749	746	750	751	751	750	751	751	750	749	750	749	750	749	749	751	750	752	749	749	750	905	902	
JMJG	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	318	378	380	380	377	382	376	464	504	514	519	543	595	649	666	671	673	668	672	672	671	672	673	670	669	669	677	672	673	671	667	673	673	672	
JMJG	U005	932	908	900	900	844	848	851	849	851	853	851	852	851	852	850	851	849	951	977	979	978	976	979	980	981	972	977	977	979	979	979	979	979	981	974	978	977	978	977	975	977	975	976	978	977	977	980	979	900
PKLG	U003	276	276	276	276	276	278	277	278	276	277	276	276	277	275	276	276	277	277	275	277	275	276	276	276	278	277	276	277	277	277	276	275	276	277	278	277	276	277	276	276	278	276	276	276	274	276	275	277	
PKLG	U004	273	272	273	272	276	270	272	272	271	271	274	275	273	273	274	267	272	273	270	271	274	275	274	275	275	275	269	273	273	274	274	274	271	270	271	274	273	273	269	272	269	264	271	274	271	274	280		
PKLG	U005	360	361	359	356	357	361	358	359	357	286	269	269	285	359	359	359	357	357	359	358	359	335	265	265	263	263	266	265	263	264	26																		

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	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	HY01	63	63	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY02	63	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	99	99	99	99	100	100	100	100	100	63	63
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
KNYR	HY01	100	100	100	100	100	100	100	100	99	99	100	100	100	100	100	100	100	100	100	100	100	100	99	100
KNYR	HY02	101	101	101	101	101	101	101	101	101	102	101	102	101	102	101	101	102	101	101	102	102	102	102	102
KNYR	HY03	98	98	98	97	96	96	95	95	95	96	96	97	98	98	98	98	97	96	96	95	95	95	95	98
KNYR	HY04	101	101	101	101	101	101	101	100	100	100	100	101	101	101	101	101	101	101	101	101	101	101	100	101
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	23	23	23	21	21	21	2	0	0	0	0	0	0
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	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	111	-1
PGAU	HY02	20	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	21	21	21	21	21	21	21	21	20	20	20	20	21	21	21	21	21	22	22	22	22	22	22	22
PGAU	HY04	22	22	22	22	22	21	22	22	22	22	22	22	22	22	22	22	22	23	22	22	22	22	22	22
SIHY	HY01	31	31	31	31	30	31	30	31	31	31	31	0	0	0	0	0	51	51	51	51	51	51	31	31
SIHY	HY02	30	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	30	30	30	30	50	50	50	50
SIHY	HY03	30	30	30	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	50	50
SYPS	HY01	17	25	25	25	25	25	25	25	25	17	17	0	0	0	0	0	0	0	17	25	25	25	25	17
SYPS	HY03	17	25	25	25	25	25	25	25	25	17	17	0	0	0	0	0	0	17	25	25	25	25	17	17
SYPS	HY04	17	25	25	25	25	25	25	25	25	17	17	0	0	0	0	0	0	0	0	0	0	0	25	25
TMGR	HY01	81	81	81	81	81	81	0	0	0	0	0	0	81	81	81	81	81	81	81	81	81	81	32	81
TMGR	HY02	85	85	85	85	85	32	33	28	0	0	0	0	85	85	85	85	85	85	85	85	85	85	85	85
TMGR	HY03	81	81	81	81	81	81	30	32	27	28	30	32	32	82	82	82	81	81	81	81	81	81	81	81
TMGR	HY04	81	81	81	81	81	81	40	42	37	38	39	41	82	82	54	53	82	81	81	81	55	81	81	56
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	107	94	92	84	-1	-1	-1	-1
UJLI	HY02	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	109	130	130	-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		1328	1352	1265	1179	1177	1178	949	955	938	911	890	895	796	798	840	819	849	1119	1117	1137	1141	1383	1422	1375
EMPP	BLK2	611	610	608	614	610	542	500	499	501	498	499	498	499	501	500	499	502	608	610	606	606	605	0	0
PLPS	GT11	143	145	144	145	145	126	129	130	129	130	129	130	129	129	144	144	145	145	144	145	0	0	0	0
PLPS	GT12	148	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	139	140	140	141	141	121	127	126	126	126	126	126	126	126	141	140	139	141	142	140	0	0	0	0
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130	130	130	130	130	130	130	130
Total Distillate		1041	981	892	900	896	789	756	755	756	754	754	754	757	755	754	757	893	894	890	892	892	284	275	130
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	5	8	9	11	11	10	8
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2	2	3	3	2
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	4	3	5	9	11	9
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	14	20	30	38	10	34	25	24
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	12	20	19	17	26	25	26
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	4	7	6	4	5	10

