

Daily System Generation Summary on Monday

Monday, July 17, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,043 MW
Distillate	0 MW
Total TNB	2,043 MW
Total IPP	17,448 MW
Total Co-Gen	0 MW
Total System	23,493 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,772	3.57 %
Gas	61,555	15.93 %
Total TNB	75,327	19.50 %
ST-Coal	227,188	58.81 %
LSS	5,378	1.39 %
Gas	78,588	20.34 %
Total IPP	311,154	80.55 %
Co-Gen	448	0.12 %
Total Co-Gen	448	0.12 %
Total Generation	386,929	100.16 %
PLTG	352	0.09 %
HVDC	280	0.07 %
Interconnection	632	0.16 %
Net Energy	386,297	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	19,566 MW
TNB Generation	4,004 MW
IPP Generation	14,311 MW
Spinning Reserve	1,263 MW
Maximum Demand	18,283 MW
Net Energy	386,297 MWH
Load Factor	88.04 %

Fuel Cost

Total Cost:	93,556,275.09 RM
Cost per Unit	24.13 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	640
Hydro	308
Syncon	762
Thermal	159
Total	1,869

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	171
Total TNB	218
CBPS	44
EMPP	184
NPRI	132
PCGP	83
PLPS	24
SKSP	45
SPGP	194
Total IPP	706
Total Gas	925
Total Gas Required	925

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	15603	14748	14072	13670	13226	13112	13341	13364	14026	15893	16896	17347	17241	16866	17586	18178	18283	18021	16767	16758	18068	18041	17557	17119

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, July 20, 2023 8:31:33 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

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	706	706	705	707	708	705	707	704	708	706	704	706	706	705	707	706	706	704	705	703	705	710	706	706	706
JMAH	U002	704	706	700	710	704	705	703	706	703	703	707	702	705	706	702	703	706	698	710	704	704	704	706	705	706
JMHE	U001	978	976	975	975	974	899	899	900	824	697	698	699	702	700	699	690	800	900	939	973	972	976	977	977	973
JMHE	U002	501	501	500	500	502	500	500	501	501	501	497	499	495	500	499	504	502	500	498	502	496	502	498	500	498
JMJG	U002	680	676	676	676	676	675	673	672	673	675	676	678	677	676	673	671	674	674	671	677	675	673	675	676	673
JMJG	U003	0	0	0	0	0	0	0	49	171	217	310	313	348	443	496	506	543	546	551	552	544	594	604	596	597
JMJG	U004	982	975	978	975	973	925	900	904	902	853	848	854	854	852	852	854	854	900	939	978	977	975	977	974	974
JMJG	U005	980	983	978	978	985	899	899	899	900	848	849	850	848	851	848	849	848	902	971	981	981	982	981	985	981
PKLG	U003	276	277	277	277	278	276	278	278	277	205	154	160	155	156	155	155	213	279	282	276	275	273	273	273	274
PKLG	U004	51	58	63	65	69	69	91	111	114	133	139	141	146	138	137	143	142	140	138	131	136	137	139	133	128
PKLG	U005	268	269	268	269	269	269	269	268	268	269	269	269	288	374	464	468	471	468	466	467	466	469	468	464	467
PKLG	U006	451	450	449	450	445	445	443	446	447	450	448	448	449	446	448	449	447	449	447	449	449	452	449	447	449
TBIN	U001	697	698	702	700	701	697	697	701	693	650	651	603	643	649	650	699	698	697	695	701	700	697	698	699	696
TBIN	U003	694	696	694	694	695	696	694	697	695	647	648	600	652	646	647	647	696	693	694	695	697	690	698	694	696
TBIN	U004	983	983	983	984	985	902	902	905	903	853	853	853	854	853	854	853	853	904	968	983	983	982	984	979	984
Total ST-Coal		8951	8954	8948	8960	8964	8662	8655	8741	8779	8406	8451	8375	8503	8610	8740	8843	9151	9461	9679	9768	9766	9808	9827	9808	9813
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
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
CBPS	BLK2	360	223	222	221	222	221	222	222	222	222	222	222	222	222	222	222	222	222	245	226	222	220	221	222	222
EMPP	BLK1	686	711	701	552	410	439	405	408	403	423	406	462	410	410	408	407	414	422	573	690	709	710	709	710	709
EMPP	BLK3	684	711	706	554	410	445	407	408	403	432	405	465	410	410	409	407	415	422	575	693	708	710	710	709	670
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	37	75	94	104	102	103	102	103
GLGR	GT02	94	94	95	95	95	94	95	95	95	94	94	94	95	95	95	95	107	108	107	107	107	103	102	103	102
GLGR	ST1C	41	42	42	42	42	42	42	42	42	42	42	43	42	42	41	42	46	46	45	46	86	93	93	93	94
NPRI	BLK1	521	510	335	332	328	328	327	323	322	334	323	328	332	325	325	333	332	323	331	506	528	526	524	438	332
NPRI	BLK2	515	469	330	328	323	324	320	317	315	327	318	320	322	328	319	322	326	327	318	322	473	497	502	519	437
PCGP	PGRG	593	602	602	603	547	597	491	397	396	402	396	398	394	403	397	400	402	602	592	596	603	604	599	601	603
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	29	42	42	42	43	115	110	125	125	125	125	124	125	125	125
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	19	55	56	57	57	57	57	57	57
SKSP	BLK1	220	222	219	215	218	218	220	225	220	221	222	219	217	220	219	219	219	217	217	218	220	218	217	217	213
SPGP	BLK1	712	658	633	610	611	610	613	535	439	539	437	477	537	539	437	440	440	709	709	707	706	704	714	717	715
SPGP	BLK2	704	663	637	612	610	609	611	606	435	545	485	473	541	544	435	438	442	715	710	711	718	720	723	724	723
TJGS	GT1A	189	125	125	126	125	125	124	124	125	129	125	127	125	126	126	123	126	124	123	128	126	126	227	178	123
TJGS	GT1B	180	111	113	115	115	117	115	114	113	111	117	112	115	113	117	115	115	113	115	111	113	116	119	117	116
TJGS	ST1C	219	166	166	166	166	164	164	163	162	163	164	165	165	165	164	164	165	165	165	165	165	246	208	167	166
TJGS	GT2A	150	133	132	132	132	133	132	132	132	132	132	132	132	133	132	132	132	129	132	131	132	132	133	133	131
TJGS	GT2B	146	128	128	129	128	128	128	129	129	128	129	129	129	128	128	128	125	129	128	128	128	128	128	128	128
TJGS	ST2C	217	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191
Total CCGT-Gas		6231	5759	5377	5023	4673	4785	4607	4430	4142	4441	4231	4402	4415	4448	4205	4213	4356	5131	5461	5754	6212	6256	6540	6429	6106
Total 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
BSIA	HY01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
BSIA	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
BSIA	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
CEND	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8
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	8
CEND	HY03	7	8	8	8	8	8	8	7	8	8	8	7	8	7	8	8	8	8	8	8	9	8	8	8	8
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	-1

Daily MW Generation on Monday

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	HY03	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
HTRG	HY04	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
KNRG	HY03	20	20	20	20	20	20	20	20	20	20	22	22	22	22	22	22	22	22	22	22	22	22	23	23
KNYR	HY02	97	100	100	99	99	99	100	0	0	99	58	97	97	98	57	98	58	100	99	100	100	100	99	98
KNYR	HY03	93	94	93	92	91	91	90	89	89	90	90	91	92	93	93	52	90	91	91	91	53	90	89	89
KNYR	HY04	97	101	101	100	100	100	99	98	100	99	100	98	99	99	58	100	59	100	101	102	102	60	103	102
LPJA	HY01	15	14	12	12	12	12	12	13	13	13	13	13	13	13	13	12	12	12	13	14	14	14	14	14
LPJA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	11	11	11	11	11	11
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
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	7	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	-1	-1	18	-1	-1	-1	18	-1	-1	-1	18	-1	-1	-1	19	-1	-1	-1	20	20	-1	-1	-1	-1
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
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
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
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
SYPS	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
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
TMGR	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
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	42	86	62	84	41	42	40	40	39	59	41	84	41	68	42	41	80	83	81	41	85	51	65	79
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
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	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Total Hydro		419	471	463	463	419	420	437	316	314	338	437	422	424	446	440	358	461	344	463	445	491	473	368	502
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	0	0	0	0	0	0	0	0	0	0
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CHLS	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
GBLS	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
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GNLS	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
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JSLs	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
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KKLS	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
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KRLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCLS	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
MNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SNLS	LSS4	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0	0	0

Daily MW Generation on Monday

[illegible]