

Daily System Generation Summary on Monday

Monday, October 16, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,176 MW
Distillate	0 MW
Total TNB	2,176 MW
Total IPP	16,958 MW
Total Co-Gen	0 MW
Total System	22,842 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,101	5.38 %
Gas	63,846	16.28 %
Total TNB	84,947	21.67 %
ST-Coal	206,010	52.54 %
LSS	5,487	1.40 %
Gas	95,653	24.40 %
Total IPP	307,150	78.34 %
Co-Gen	-735	-0.19 %
Total Co-Gen	-735	-0.19 %
Total Generation	391,362	99.82 %
HVDC	-703	-0.18 %
Interconnection	-703	-0.18 %
Net Energy	392,065	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:	16:30:00 Hour
Total Set On Bus	19,576 MW
TNB Generation	4,740 MW
IPP Generation	13,894 MW
Spinning Reserve	981 MW
Maximum Demand	18,622 MW
Net Energy	392,065 MWH
Load Factor	87.72 %

Fuel Cost

Total Cost:	90,653,365.85 RM
Cost per Unit	23.08 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	520
Hydro	258
Syncon	547
Thermal	176
Total	1,501

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	48
SRDG	5
TJGS	175
Total TNB	228
CBPS	48
EMPP	274
NPRI	147
PCGP	84
PLPS	39
SKSP	31
SPGP	199
Total IPP	822
Total Gas	1,050
Total Gas Required	1,050

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	15745	15055	14448	13954	13515	13268	13495	13521	14301	16149	16997	17360	17280	17056	17730	18276	18589	18226	17187	17625	18261	18139	17794	17387

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 30, 2023 11:41:26 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	697	696	696	695	694	696	695	696	694	696	695	696	696	695	696	696	695	696	695	696	696	695	696	697	696	695																								
JMAH	U002	696	696	696	696	695	696	692	695	696	695	696	694	697	698	694	695	691	696	696	696	697	697	697	703	693	694	694																							
JMHE	U002	982	978	891	850	849	848	852	850	848	851	851	851	849	850	849	851	934	979	981	982	981	978	981	976	978	980	977																							
JMJG	U001	660	685	662	649	666	666	665	660	666	659	666	661	659	665	660	666	662	666	669	671	673	665	663	670	667	661	671																							
JMJG	U003	670	666	665	677	664	662	664	668	662	668	662	669	668	668	668	667	662	667	668	668	660	678	660	665	661	666	666																							
JMJG	U005	976	982	930	850	848	851	847	848	851	847	849	849	849	848	848	850	852	931	974	975	972	975	980	981	981	986	978																							
PKLG	U003	277	277	276	276	276	275	276	276	274	274	274	275	278	277	276	277	279	276	275	275	274	272	276	277	277	276	276																							
PKLG	U004	271	273	275	273	273	271	272	271	269	273	271	274	272	273	273	273	272	275	272	273	275	273	274	276	274	269	272																							
PKLG	U005	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470																							
TBIN	U001	691	689	690	687	692	691	688	689	689	689	686	690	690	689	691	691	692	689	689	691	690	689	689	690	690	690	692																							
TBIN	U002	690	690	691	692	689	691	688	689	690	687	688	690	687	690	689	694	688	687	692	690	688	690	689	688	691	691	691																							
TBIN	U003	687	687	687	687	687	688	683	687	688	686	687	688	687	688	686	690	684	687	688	688	685	687	688	685	687	688	684																							
TBIN	U004	981	983	971	926	882	853	854	855	852	854	854	853	853	851	852	853	884	927	971	982	982	982	982	982	981	982	983																							
Total ST-Coal		8748	8772	8600	8428	8385	8358	8346	8354	8352	8349	8348	8360	8354	8366	8350	8367	8361	8551	8693	8739	8752	8752	8747	8762	8762	8743	8744	8741	8748	8751	8766	8679	8628	8595	8612	8618	8623	8626	8634	8622	8614	8607	8606	8618	8622	8626	8619	8628		
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	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	0
CBPS	BLK2	313	207	211	208	210	210	208	211	209	200	206	212	210	211	208	212	212	211	296	366	362	362	362	361	360	357	359	366	363	364	361	365	362	363	356	357	353	362	365	369	360	361	356	361	354	362	361	357		
EMPP	BLK1	667	406	412	406	408	409	411	411	409	398	405	410	411	409	408	411	412	490	615	684	678	702	710	678	660	651	618	715	708	712	709	715	709	710	691	701	679	669	715	723	700	705	682	705	681	706	695	687		
EMPP	BLK2	669	657	694	659	526	410	412	412	409	399	405	410	412	410	409	411	412	494	614	689	679	699	711	670	654	641	610	708	708	712	708	715	711	712	690	697	678	667	714	723	698	704	683	705	680	705	692	687		
EMPP	BLK3	669	690	705	690	568	549	411	523	409	399	405	410	478	656	408	411	415	493	613	687	679	703	709	669	653	641	610	708	708	712	710	715	710	711	690	699	678	668	714	723	698	705	682	705	678	705	698	687		
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	40	59	88	107	107	107	108	107	108	107	108	108	108	107	105	107	106	107	106	107	106	107	106	107	106	107	107	107	108	107	107	107	107	107	
GLGR	GT02	107	96	93	94	94	93	93	93	94	94	94	94	93	94	93	94	98	100	106	107	107	107	107	107	106	107	107	107	107	106	106	105	106	106	106	106	106	106	106	106	106	106	106	106	106	107	107	107		
GLGR	ST1C	46	42	40	41	41	41	41	41	40	41	41	42	41	41	41	40	40	43	51	97	97	96	96	96	96	96	96	96	96	96	97	98	97	98	97	97	97	97	97	97	97	97	96	97	96	96	97	96		
NPRI	BLK1	492	506	307	305	307	307	304	308	307	292	300	309	307	308	304	311	310	521	525	527	523	522	522	521	520	516	520	529	529	526	524	522	521	515	516	516	508	522	525	525	521	521	515	523	514	523	523	523	519	
NPRI	BLK2	497	511	518	512	459	329	325	329	327	316	322	329	327	331	325	333	331	529	531	534	530	528	529	528	523	523	514	535	533	532	529	533	530	532	511	514	506	529	534	535	527	529	512	529	511	529	517	514		
PCGP	PGRG	557	586	600	592	593	599	590	400	394	372	386	402	398	403	394	403	602	603	608	612	605	601	603	602	600	590	595	614	612	608	602	612	602	608	589	590	574	600	614	626	600	601	586	601	581	602	601	593		
PLPS	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	60	147	144	141	143	141	146	148	150	145	146	142	147	143	145	144	141		
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	54	53	53	54	142	142	141	141	141	140	140	141	141	137	138	138	138	136	137	133	138	138	139	138	139	134	138	134	137	137	137	134		
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	29	58	57	57	58	58	58	58	58	57	59	58	144	144	144	144	144	144	143	143	143	143	142	142	143	143	143	143	142		
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	0	60	147	144	141	143	141	146	148	150	145	146	142	147	143	145	144	141	
SPGP	BLK1	694	710	717	711	714	719	712	599	592	584	490	502	501	501	595	600	716	720	721	719	717	717	718	717	707	701	697	702	702	701	699	696	694	696	687	689	677	705	710	712	711	716	703	716	700	717	716	711		
SPGP	BLK2	676	702	709	706	705	711	703	599	593	583	490	502	499	501	595	602	709	714	712	710	718	717	716	711	702	699	691	700	697	699	697	691	693	691	678	682	672	698	700	705	700	703	690	708	692	709	706	703		
TJGS	GT1A	127	123	126	125	126	126	127	127	125	121	127	126	127	126	127	125	126	125	128	126	125	126	126	181	146	125	123	159	226	222	222	224	222	223	223	224	216	179	226	227	224	224	221	223	221	224	225	184		
TJGS	GT1B	120	110	118	114	111	110	114	114	110	114	115	112	119	116	116	114	115	117	111	115	113	173	136	114	110	147	211	213	211	213	211	208	211	215	208	171	209	216	212	212	211	211	209	214	209	172				
TJGS	ST1C	211	167	165	165	163	164	164	162	164	160	158	164	163	163	163	163	163	163	163	164	164	164	205	197	166	166	167	244	250	250	250	252	250	250	250	248	208	247	252	250	250	251	251	209	250	249	231			
TJGS	GT2A	132	131	132	132	132	131	132	132	131	131	132	131	131	131	132	130	132	132	131	132	131	131	131	130	131	131	132	132	217	217	217	217	217	216	217	202	132	191	216	216	216	216	216	216	169	170	131			
TJGS	GT2B	129	129	129	129	130	129	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		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	68	68	69	69	0	0	0	0	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	69	69	69	-1	-1	-1	-1	-1	
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	
HTRG	HY04	3	4	4	4	4	3	3	3	3	3	3	3	3	3	3	7	7	7	7	7	7	7	7	7	7	
KNRG	HY01	37	0	0	0	0	0	0	0	0	0	0	0	36	36	35	36	35	35	35	35	35	35	35	35	35	
KNRG	HY02	37	38	24	24	25	24	24	25	24	24	24	24	25	25	25	38	38	38	37	37	37	37	37	37	37	
KNRG	HY03	37	38	22	22	22	22	22	22	22	22	22	22	22	38	38	38	37	37	37	37	37	37	37	37	37	
KNYR	HY01	92	94	94	94	94	94	94	94	94	93	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	
KNYR	HY02	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	
KNYR	HY03	91	94	94	94	97	98	98	98	98	95	92	93	99	99	93	97	98	100	100	100	100	99	98	98	98	
KNYR	HY04	86	70	85	76	91	82	63	83	62	57	54	65	89	87	59	88	81	100	100	100	100	99	92	88	69	
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	
LPIA	HY02	22	22	22	22	22	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	18	18	
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	3	
PGAU	HY01	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
PGAU	HY02	-1	-1	-1	-1	-1	-1	19	12	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	24	22	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	22	81	157	157	157	157	0	
SYPS	HY01	25	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	18	2	2	2	2	
SYPS	HY03	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	0	0	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	79	79	78	78	-1	-1	-1	78	-1	
TMGR	HY02	29	35	0	0	0	0	0	0	0	0	0	0	85	85	85	85	85	0	0	84	84	84	85	30	33	
TMGR	HY03	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	79	79	79	80	29	32	84	
TMGR	HY04	37	52	69	58	79	60	44	61	42	39	41	71	70	62	42	67	55	82	81	81	80	80	80	80	42	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	94	-1	-1	-1	-1	-1	93	182	184	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	184	187	185	187	93	-1	-1	
UPIA	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	3	
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	5	
Total Hydro		766	625	578	578	599	570	553	584	529	518	513	554	584	575	521	579	561	669	648	648	788	766	765	862	843	737
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	4	6	14	17	19	21	23	24	13	15	
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	11	15	23	28	32	26	21	33	20	
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	13	10	20	14	8	7	6	16	9	13	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	15	22	19	19	25	27	24	20	32	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	22	24	21	32	38	35	28	29	30	
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	12	17	16	21	18	21	17	11	30	8	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	6	10	12	14	24	20	36	30	29	5	
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	12	8	12	15	18	25	21	7	14	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	20	35	25	39	28	33	33	39	
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	33	26	51	30	21	18	17	31	23	25	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	8	18	27	33	20	23	2	3	5	6	
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	12	10	18	15	12	10	8	14	10	9	
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	13	18	23	49	50	35	60	84	82	65	100	
KRLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	9	22	9	10	16	28	24	18	23	
MALS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	18	10	18	29	27	22	22	19	18	16	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	10	15	17	28	36	39	41	30	23	22	

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	
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	
STLS	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	
TBLS	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	
Total 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	
ESTL	ESTL	-22	-22	-22	-14	-14	-13	-22	-14	-19	-18	-20	-20	-18	-11	-12	-13	-12	-17	-7	-10	-10	-12	-14	-12	-17
KHTC	BLK1	-83	-85	-81	-81	-76	-82	-57	-57	-51	-52	-41	-26	-22	-23	-25	-26	-29	-30	-35	-33	-39	-40	-35	-24	-23
PCUF	CUFG	9	11	13	16	16	18	17	17	19	20	18	19	16	18	18	17	16	15	5	5	4	5	5	6	6
PCUF	CUFK	15	15	16	16	15	14	16	15	15	13	15	14	12	17	14	16	14	15	9	3	4	5	1	4	4
PFTZ	PFTZ	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Co-Gen		-77	-77	-70	-59	-55	-59	-42	-35	-32	-33	-24	-8	-7	3	-1	-5	-2	-12	-15	-6	-14	-27	-23	-14	-14
Total Gen		15733	15283	14974	14726	14405	14096	13924	13682	13484	13353	13231	13383	13459	13666	13506	13743	14261	15403	16138	16684	16996	17086	17244	17412	17223
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
TIE-HVDC		-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-28	-28	-29	-28	-31	-31	-29	-31	-30	-29	-28	-31	-29
TIE-PLTG		19	1	-52	-29	-14	3	1	-19	-1	16	-7	1	-7	-6	13	6	-11	32	18	21	29	-48	-85	-57	-28
Interconnection		-12	-29	-81	-58	-43	-26	-30	-49	-31	-13	-37	-28	-36	-35	-15	-22	-40	3	-11	-7	-1	-77	-116	-85	-57
System Total		15745	15312	15055	14784	14448	14122	13954	13731	13515	13366	13268	13411	13495	13701	13521	13765	14301	15400	16149	16691	16997	17163	17360	17497	17280
SRev ST-Coal		173	149	312	392	414	414	429	419	420	422	426	412	418	406	419	406	415	354	228	182	169	169	174	159	159
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
SRev CCGT-Gas		993	1326	1423	1510	1813	2062	2222	2510	2654	2770	2895	2812	2761	2567	2653	2779	2338	1706	1257	887	813	839	761	705	884
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
SRev Co-Gen		1	0	0	0	0	0	-1	1	-1	-1	0	-3	1	0	-1	0	-1	0	0	-3	0	-1	-4	1	0
Syncon		890	890	890	739	890	890	739	739	890	890	890	890	890	890	890	890	739	890	890	739	890	890	703	703	890
Hydro		248	164	124	275	103	132	300	269	173	184	189	148	118	127	181	123	141	184	54	54	192	63	64	154	173
S.Reserve Total		2305	2529	2749	2916	3220	3498	3689	3938	4136	4265	4400	4259	4188	3990	4142	4198	3783	2983	2429	2010	1918	1960	1885	1722	1919