

Daily System Generation Summary on Monday

Monday, October 9, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,201 MW
Distillate	0 MW
Total TNB	2,201 MW
Total IPP	16,274 MW
Total Co-Gen	0 MW
Total System	22,477 MW

Generation Mix

Type	MWh	Percentage
Hydro	25,465	6.43 %
Gas	57,900	14.61 %
Total TNB	83,365	21.04 %
ST-Coal	196,844	49.68 %
LSS	6,584	1.66 %
Distillate	6,343	1.60 %
Gas	102,323	25.82 %
Total IPP	312,094	78.76 %
Co-Gen	271	0.07 %
Total Co-Gen	271	0.07 %
Total Generation	395,730	99.87 %
PLTG	191	0.05 %
HVDC	-702	-0.18 %
Interconnection	-511	-0.13 %
Net Energy	396,241	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	20,256 MW
TNB Generation	4,576 MW
IPP Generation	14,592 MW
Spinning Reserve	1,089 MW
Maximum Demand	19,167 MW
Net Energy	396,241 MWH
Load Factor	86.14 %

Fuel Cost

Total Cost:	97,015,269.11 RM
Cost per Unit	24.46 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,112
Hydro	329
Syncon	363
Thermal	183
Total	1,987

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	45
TJGS	156
Total TNB	201
CBPS	42
EMPP	277
KLPP	29
NPRI	133
PCGP	82
PLPS	34
SGRI	29
SKSP	41
SPGP	192
Total IPP	857
Total Gas	1,059
Total Gas Required	1,136

Alternate Fuel Usage

Station	(mmcsfd)
KLPP	36
SGRI	36
SKSP	6
Total	78

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	15722	15017	14486	13958	13643	13330	13683	13654	14296	16220	17058	17711	17691	17521	18265	18950	19167	18587	17353	17633	18355	18264	17757	17385

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 30, 2023 11:54:45 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	692	696	696	695	695	690	697	695	699	695	695	694	701	695	697	696	696	695	693	696	696	696	695	693	698	695	694	694																						
JMAH	U002	696	694	696	696	696	698	695	695	696	695	696	697	695	696	695	695	696	692	695	694	695	696	695	698	695	696	695	695																						
JMHE	U002	971	971	956	896	898	900	898	899	903	900	897	898	900	897	901	901	903	900	933	963	965	966	975	973	969	973	975	979																						
JMJG	U001	667	632	670	669	673	674	669	677	681	673	673	675	674	673	673	672	671	671	673	670	677	672	671	673	671	677	676	671																						
JMJG	U002	666	666	675	672	670	671	667	673	670	668	671	671	670	671	672	671	671	668	677	662	669	671	670	670	668	671	671	671																						
JMJG	U003	654	649	645	644	643	643	651	645	651	640	657	645	649	651	647	653	660	644	642	644	650	646	640	656	633	663	654	623																						
JMJG	U005	189	201	200	198	197	201	198	194	198	196	234	309	364	346	343	346	348	350	348	351	347	311	245	173	0	0	0	0																						
PKLG	U003	146	146	147	235	282	276	274	270	269	272	274	274	274	276	275	274	275	277	276	277	274	277	277	278	274	274	276	277																						
PKLG	U004	275	273	264	273	274	273	274	272	274	268	274	277	275	278	274	272	272	271	273	274	271	271	272	273	270	271	270	270																						
TBIN	U001	687	693	690	690	690	690	688	689	691	690	688	691	694	690	687	689	690	689	689	689	689	693	690	690	692	691	691	690																						
TBIN	U002	690	691	689	690	692	690	692	689	688	690	690	690	689	689	689	693	690	689	689	695	690	688	690	689	693	694	688	687																						
TBIN	U003	687	688	688	686	687	682	685	684	686	688	688	686	687	687	687	690	689	686	687	687	688	687	687	688	689	693	688	689																						
TBIN	U004	982	981	983	940	903	901	903	904	903	905	903	903	903	903	903	904	905	902	909	954	981	983	982	982	983	984	982	983																						
Total ST-Coal		8002	7981	7999	7984	8000	7989	7993	7985	8007	7981	8041	8106	8174	8155	8147	8150	8165	8136	8189	8256	8294	8242	8196	8134	7932	7985	7958	7924	8062	8130	8081	8202	8199	8272	8288	8328	8346	8410	8502	8490	8530	8520	8444	8554	8464	8563	8587	8622		
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	
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	
CBPS	BLK2	209	206	210	208	212	214	212	207	209	208	203	203	210	207	210	206	213	212	210	212	211	211	217	294	358	241	203	248	311	365	362	358	360	358	349	315	205	209	210	325	357	360	357	277	208	206	206	205		
EMPP	BLK1	700	709	592	565	508	422	458	406	419	442	403	402	445	435	414	411	435	549	703	707	710	707	719	711	696	687	684	720	711	725	710	698	710	700	675	679	633	566	696	695	691	709	703	703	693	693	685	688		
EMPP	BLK2	699	708	594	569	519	426	456	406	420	438	402	402	447	432	411	411	433	556	709	706	708	709	717	710	695	687	685	718	711	725	709	695	709	699	675	677	625	567	702	693	692	709	704	703	695	693	684	686		
EMPP	BLK3	698	708	594	565	520	425	455	406	419	439	402	403	446	435	412	410	433	554	706	708	710	709	718	710	694	688	685	718	711	726	710	705	709	710	700	676	629	565	701	695	692	708	704	700	694	693	685	687		
GLGR	GT01	66	66	67	67	67	66	67	65	66	66	65	66	65	66	65	67	68	66	66	67	65	66	64	66	65	65	66	65	68	64	65	65	65	66	65	66	65	66	65	66	65	66	65	67	66	65	66			
GLGR	GT02	66	65	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	65	66	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65			
GLGR	ST1C	71	70	71	71	71	70	70	70	70	70	70	70	70	70	70	70	71	70	71	70	71	70	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	75			
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	24	132	131	135	138	138	138	140	140	112	112	112	110	109	109	109	109	109	109	109	93		
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	24	24	24	23	23	33	62	73	143	141	142	142	141	140	140	145	147	150	150	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	39	45	70	66	64	131	143	101	139	139	138	127	203	176	203	204	202	202	202	203	198	199	198	198	198	198	198	198	198	198	198	198	196		
NPRI	BLK1	521	314	308	302	308	308	308	302	307	303	298	298	307	305	306	304	310	310	308	310	514	512	517	503	507	504	502	514	513	513	511	514	509	499	504	313	317	318	509	506	511	511	508	508	591	300	300	301		
NPRI	BLK2	527	522	518	349	329	331	330	325	329	326	319	318	329	326	327	323	332	331	422	455	437	377	527	525	513	499	448	516	529	525	527	518	527	515	482	320	323	328	331	422	357	518	515	514	425	395	321	321		
PCGP	PGRG	598	591	602	592	501	401	402	387	395	391	380	378	399	393	396	388	402	603	605	602	602	603	615	601	587	586	582	618	604	629	601	600	602	593	574	583	590	601	601	591	587	596	594	592	593	589	584	587		
PLPS	GT13	123	125	125	121	121	124	124	125	125	121	121	121	121	124	124	121	121	124	124	125	125	125	125	125	125	122	122	125	125	128	128	124	124	125	125	121	121	125	125	128	128	124	124	121	121	126	126	124		
PLPS	ST18	48	39	40	48	47	45	46	46	46	48	46	46	48	52	52	53	52	53	52	51	47	47	47	49	47	47	47	49	48	50	48	47	47	48	48	46	47	46	46	45	46	47	47	48	47	47	45	45		
SGRI	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	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	24	135	136	139	139	140	140	141	142	143	111	111	111	111	111	111	111	111	111	111	111	111	111	
SGRI	GT13	0	0	0	0	0	0	0	0	18	54	35	35	34	35	54	116	136	135	135	134	133	132	137	137	137	136	137	138	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	59	71	70	70	69	66	123	135	131	131	134	129	195	175	199	200	197	200	198	199	199	191	192	193	192	191	193	193	190	194	193	191	191	194	
SKSP	BLK1	218	226	219	218	216	218	218	217	218	217	217	217	218	217	221	220	218	232	218	260	301	218	216	219	264	318	338	334	221	306	336	233	221	220	220	221	217	219</												

Daily MW Generation on Monday

[illegible]

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
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
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	4	8	-2	0	0	-11	0	0	0	0	2	4	7	7	20	15	16	16	12	14	13	16	13	19
KHTC	BLK1	-20	-20	-18	-19	-20	-18	-17	-15	-15	-16	-15	-18	-15	-20	-19	-21	-24	-28	-33	-37	-40	-41	-44	-46
PCUF	CUFG	22	6	4	3	9	9	9	9	9	9	9	9	10	9	11	10	11	4	4	5	3	4	5	3
PCUF	CUFK	14	14	15	15	15	13	16	14	15	15	15	13	14	13	15	15	17	15	14	14	15	13	16	15
PFTZ	PFTZ	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 Co-Gen		26	14	5	5	10	-1	14	14	15	15	16	17	19	20	32	27	29	17	8	6	-1	1	-2	-3
Total Gen		15665	15356	14956	14642	14452	14029	13917	13709	13613	13397	13304	13364	13652	13749	13607	13692	14257	15409	16200	16655	17045	17473	17703	17824
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
TIE-HVDC		-30	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-30	-31	-28	-29	-29	-31	-28
TIE-PLTG		-27	-22	-32	-10	-4	-21	-10	14	-1	-1	4	16	-3	12	-18	25	-10	27	9	15	17	31	21	35
Interconnection		-57	-51	-61	-39	-34	-52	-41	-16	-30	-30	-26	-12	-31	-16	-47	-5	-39	-2	-20	-14	-13	2	-8	6
System Total		15722	15407	15017	14681	14486	14081	13958	13725	13643	13427	13330	13376	13683	13765	13654	13697	14296	15411	16220	16669	17058	17471	17711	17818
SRev ST-Coal		154	175	157	312	299	312	306	316	294	320	257	193	125	143	304	301	286	315	262	195	157	209	255	147
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
SRev CCGT-Gas		1093	1393	1723	2002	2237	2618	2749	2943	3195	3384	3685	3690	3500	3364	3617	3599	3138	2128	1496	1465	1485	1268	972	1218
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
SRev 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
SRev Co-Gen		0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		802	802	890	890	739	890	890	890	890	890	890	890	890	890	739	890	890	890	890	890	802	802	802	525
Hydro		155	131	122	94	221	90	90	96	103	104	110	111	234	104	160	207	203	292	163	74	78	83	85	215
S.Reserve Total		2204	2501	2893	3299	3497	3910	4036	4245	4482	4698	4942	4884	4599	4501	4973	4997	4517	3474	2811	2536	2524	2384	2133	2123