

Daily System Generation Summary on Monday

Monday, October 2, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,790 MW
Distillate	0 MW
Total TNB	1,790 MW
Total IPP	17,907 MW
Total Co-Gen	0 MW
Total System	23,351 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,450	3.98 %
Gas	52,831	13.60 %
Total TNB	68,281	17.57 %
ST-Coal	222,115	57.16 %
LSS	5,048	1.30 %
Gas	92,280	23.75 %
Total IPP	319,443	82.20 %
Co-Gen	372	0.10 %
Total Co-Gen	372	0.10 %
Total Generation	388,096	99.87 %
PLTG	82	0.02 %
HVDC	-580	-0.15 %
Interconnection	-498	-0.13 %
Net Energy	388,594	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	19,715 MW
TNB Generation	3,633 MW
IPP Generation	14,626 MW
Spinning Reserve	1,443 MW
Maximum Demand	18,306 MW
Net Energy	388,594 MWH
Load Factor	88.45 %

Fuel Cost

Total Cost:	83,880,819.93 RM
Cost per Unit	21.55 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	453
Hydro	345
Syncon	487
Thermal	157
Total	1,442

Time	Weather	Temperature
Afternoon	Rainy	32
Morning	Rainy	27

Gas Usage

Station	(mmscfd)
GLGR	40
TJGS	127
Total TNB	166
CBPS	46
EMPP	269
NPRI	140
PCGP	81
PLPS	49
SKSP	21
SPGP	189
Total IPP	796
Total Gas	962
Total Gas Required	962

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	15716	14935	14340	13820	13480	13244	13471	13581	14064	15968	16828	17343	17410	17220	17948	18198	18306	17881	16917	17192	17946	17859	17520	17015

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 30, 2023 1:15:43 PM Head
(Ir. Shanmugam Thoppalan)
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	695	694	696	696	695	695	695	696	697	695	699	695	697	693	695	694	693	693	697	696	695	696	695	698	696	696	689	696
JMAH	U002	695	694	692	694	693	694	696	694	696	695	695	697	694	695	692	690	696	695	691	693	691	695	693	696	695	694	694	696
JMHE	U001	900	895	897	900	895	896	898	885	850	849	849	850	851	852	848	848	849	898	898	902	899	902	898	898	897	897	899	901
JMHE	U002	972	973	975	898	897	898	899	881	852	845	849	849	850	850	848	848	849	944	973	976	973	979	975	976	977	979	976	978
JMJG	U001	670	672	679	668	672	672	673	675	671	670	672	671	668	679	675	667	671	669	673	677	670	674	681	675	660	673	677	673
JMJG	U002	676	674	676	673	674	674	671	676	672	674	677	678	676	676	675	678	671	673	676	672	671	677	676	673	676	673	676	671
JMJG	U003	673	673	673	671	666	677	671	672	672	671	673	672	668	668	671	671	670	672	675	673	670	671	672	670	673	672	671	672
PKLG	U003	276	276	275	273	271	272	271	272	272	271	279	277	278	277	278	274	278	277	278	277	277	279	277	278	268	273	279	277
PKLG	U004	276	275	271	274	275	272	273	276	279	277	274	271	274	272	271	271	271	274	275	274	274	279	273	279	279	275	272	275
PKLG	U005	471	471	471	471	471	471	471	471	471	471	400	400	400	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471
TBIN	U001	693	689	690	689	689	689	690	690	689	689	687	688	686	689	688	690	692	689	689	689	690	689	689	688	690	689	691	690
TBIN	U002	688	688	689	687	686	690	688	689	688	686	687	687	688	683	688	687	689	689	685	688	689	693	687	689	687	686	689	688
TBIN	U003	686	686	686	689	687	686	686	687	687	686	687	687	688	687	687	686	687	686	685	686	686	687	685	686	687	686	685	688
TBIN	U004	983	984	983	968	925	902	904	901	857	853	852	853	853	852	852	853	893	939	982	982	983	983	982	982	984	984	983	984
Total ST-Coal		9354	9344	9353	9251	9196	9188	9186	9165	9053	9033	9053	8974	8973	8970	9041	9027	9037	9227	9306	9355	9337	9370	9362	9350	9334	9356	9360	9354
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
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
CBPS	BLK2	210	202	210	211	205	208	203	209	210	210	206	212	212	199	205	211	211	212	212	255	361	355	361	362	363	361	359	371
EMPP	BLK1	571	399	410	410	404	408	402	374	375	375	370	374	375	375	358	367	374	508	676	709	709	709	687	710	709	710	709	701
EMPP	BLK2	568	399	410	410	403	407	402	374	376	375	370	375	375	376	360	368	375	516	683	709	709	710	687	709	709	709	708	702
EMPP	BLK3	711	663	410	434	405	408	401	374	376	375	371	375	376	376	360	368	375	515	680	709	708	710	687	709	710	710	709	701
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	59	85	107	
GLGR	GT02	94	94	94	94	93	93	94	93	94	94	94	93	94	94	94	93	93	94	94	94	109	109	109	109	109	109	104	95
GLGR	ST1C	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40	42	41	41	48	48	48	47	47	47	45
NPRI	BLK1	307	296	305	308	299	304	298	304	308	305	301	308	310	307	292	298	308	308	311	396	514	511	509	514	513	539	544	515
NPRI	BLK2	527	502	328	331	320	325	319	326	329	327	322	330	334	326	312	319	337	331	331	409	529	527	545	544	544	522	514	493
PCGP	PGRG	600	577	596	401	382	391	381	394	401	396	387	400	405	402	377	382	403	603	605	603	604	599	584	601	600	603	602	595
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	59	141	140	
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
PLPS	GT13	125	125	125	125	125	124	124	124	125	125	124	124	125	125	125	124	125	125	124	125	124	124	135	138	136	135	136	141
PLPS	ST18	57	57	56	58	58	58	58	57	58	57	57	57	57	58	58	57	58	58	58	58	58	59	58	58	60	58	144	144
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	11	54	92
SPGP	BLK1	718	717	715	718	599	497	402	360	361	360	360	358	360	502	501	449	557	719	718	716	716	716	715	714	713	713	712	707
SPGP	BLK2	714	703	713	716	707	493	437	354	359	358	351	360	365	450	481	437	561	717	717	714	713	712	701	713	710	713	707	709
TJGS	GT1A	128	123	126	131	129	131	126	130	128	129	128	128	135	140	128	138	140	138	138	238	234	234	233	233	134	135	232	235
TJGS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	47	88	110	110	117	119	128	132	129	139	135	
TJGS	ST1C	78	76	77	76	76	76	75	76	76	77	76	77	76	77	75	76	77	77	76	77	77	113	117	117	118	78	77	113
TJGS	GT2A	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	43	121	
TJGS	GT2B	162	162	160	162	162	162	162	162	162	162	162	162	163	163	163	162	163	160	162	164	162	161	161	162	162	162	162	162
TJGS	ST2C	93	94	94	94	94	94	94	94	94	93	94	93	93	93	94	94	94	93	93	93	94	94	94	94	94	99	85	215
Total CCGT-Gas		5703	5230	4870	4720	4502	4220	4019	3846	3872	3860	3814	3867	3896	4119	4018	4029	4341	5260	5806	6079	6355	6591	6547	6662	6662	6531	6534	6661
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	0	0	0
BSIA	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	20	21	20	
BSIA	HY03	23	23	23	23	22	23	22	23	10	10	10	11	11	11	10	10	11	11	11	11	11	10	11	11	11	10	22	22
CEND	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
CEND	HY02	8</																											

Daily MW Generation on Monday

		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	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
HTRG	HY03		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
HTRG	HY04		3	3	4	4	4	4	4	4	3	3	3	3	4	4	4	4	4	4	3	3	3	3	4	4
KNRG	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	23	23	22	22	23	35	35	0
KNRG	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	25	25	24	24	25	37	37	0
KNRG	HY03		39	39	39	39	39	39	39	21	21	21	21	21	21	22	22	22	22	22	22	37	37	22	22	22
KNYR	HY01		95	95	95	95	95	95	95	59	-1	-1	95	95	95	55	95	95	95	95	95	95	95	95	95	95
KNYR	HY02		99	99	99	99	99	99	99	99	61	61	61	99	99	99	61	99	99	99	99	99	99	99	99	99
KNYR	HY03		98	97	98	97	97	97	98	99	59	58	58	98	98	96	55	98	98	98	98	98	98	98	98	98
KNYR	HY04		97	59	96	96	58	60	59	60	75	64	59	98	97	101	57	56	100	101	101	101	101	99	94	100
LPJA	HY01		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
LPJA	HY02		13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
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	10	19	-1	-1	-1	-1	-1	-1	14	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1
PGAU	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1
PGAU	HY04		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	
SYPS	HY01		22	23	23	22	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22
SYPS	HY03		25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
SYPS	HY04		25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
TMGR	HY01		-1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	33	34	33	-1	-1	79	44	79	-1	-1	0
TMGR	HY02		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	32	33	33	33	33	85	33	86
TMGR	HY03		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	40	32	
TMGR	HY04		33	30	33	33	31	33	31	41	42	41	40	42	46	46	38	40	82	50	44	41	69	41	40	43
UJLI	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	143	151	151	93	95	99	181	-1
UPIA	HY01		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02		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 Hydro			619	579	620	618	588	602	578	519	505	379	331	353	530	535	494	364	571	540	533	550	560	529	682	700
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	1	2	2	6	8	13	14	20	22	24	18	15
BKLS	LSS2		0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	7	10	14	20	14	18	15	16
BSLS	LSS2		0	0	0	0	0	0	0	0	0	0	0	0	3	5	9	11	14	22	13	29	29	32	31	29
CHLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	4	12	27	23	30	23	15	24	27
GBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	3	10	14	26	20	22	24	29	23	21	18
GELS	LSS2		0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	8	8	9	10	14	15	17	15	15
GNLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	10	16	24	20	28	30	45	45	37
JELS	LSS2		0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	9	15	19	20	19	7	29	30	27
JSLs	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	3	4	11	17	23	29	22	33	35	41	44	38
KDLS	LSS3		0	0	0	0	0	0	0	0	0	0	0	0	6	13	26	33	40	63	74	85	85	90	86	79
KKLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	12	21	22	28	33	34	33	38	43
KMLS	LSS2		0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	8	12	16	6	27	29	27	28	26
KNLS	LSS3		0	0	0	0	0	0	0	0	0	0	0	0	1	8	13	20	39	63	81	51	85	58	3	8
KRLS	LSS2		0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	10	17	25	24	23	18	4	2	3
MALS	LSS2		0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	4	7	20	20	17	14	22	24	15
MCLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	14	18	23	23	28	29	44	44	27
MNLS	LSS3		0	0	0	0	0	0	0	0	0	0	0	0	4	7	15	25	24	34	46	47	59	56	91	95
PKLS	LSS3		0	0	0	0	0	0	0	0	0	0	0	0	0	12	22	27	48	58	100	84	69	59	54	59
SNLS	LSS4		0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	16	33	40	37	23	17	25	25	4

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					
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	20	28	27	25	38	38	34	45	33	23	51	47	36	37	23	14	14	12	9	4	1	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	1	3	6	11	14	15	22	35	21	30	29	21	37	15	11	2	4	3	3	2	4	5	2	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	1	2	5	7	7	7	8	9	13	21	21	13	16	14	13	12	11	4	3	1	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	1	2	4	11	11	15	15	19	30	30	30	27	10	11	21	27	17	4	3	10	4	3	1	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	16	68	154	267	391	523	616	710	740	778	715	709	719	557	621	638	600	413	315	232	186	95	39	2	2	0	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	-21	-21	-19	-11	-16	-16	-23	-17	-26	-16	-16	-18	-16	-15	-14	-10	0	1	4	9	5	4	8	0	0	-7	-12	-12	0	-10	-10	-18	-16	-22	-14	-13	-8	-3	0	0	0	0	0	0	0	-3	-6	-8				
KHCT	BLK1	-26	-25	-25	-23	-26	-25	-27	-27	-26	-26	-25	-26	-24	-26	-25	-25	-33	-34	-39	-39	-43	-43	-46	-44	-49	-49	-51	-47	-48	-46	-40	-38	-43	-42	-40	-39	-34	-33	-36	-37	-36	-33	-34	-32	-31	-30	-27					
PCUF	CUFG	19	19	19	20	19	20	19	20	20	20	19	19	19	20	20	20	20	19	18	18	19	18	17	17	17	16	14	14	18	19	22	27	28	27	27	27	28	28	27	28	28	27	28	28	28	28	27	28				
PCUF	CUFK	25	25	25	25	24	24	24	24	25	25	24	25	25	26	24	25	25	25	25	25	24	24	25	26	25	24	25	26	26	25	24	25	26	26	25	24	25	24	25	25	25	23	25	23	23	23	23	24				
PFTZ	PFTZ	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14	13	14	14	14	13	13	14	14	13	13	13	13	13	13	13	9	10	9	7	7	6	6	13	13	13						
Total Co-Gen		10	11	13	24	14	16	6	13	6	16	15	13	17	18	18	23	25	24	21	27	19	16	18	13	7	-3	-9	-9	11	-1	3	7	13	1	9	11	19	28	28	27	25	21	27	23	25	30	27	30				
Total Gen		15686	15164	14856	14613	14300	14026	13789	13543	13436	13288	13213	13207	13416	13642	13571	13459	14042	15205	15933	16402	16794	17122	17319	17465	17398	17222	17196	17617	17918	18153	18225	18283	18272	18283	17874	17325	16903	16717	17175	17945	17954	17968	17873	17743	17555	17273	17039	16641				
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	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	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-31	-29	-29	-28	-28	-29	-29	-31	-31	-28	-31	-29	-29	-31	-30	-29	-28	-30	-30	-28	-29	0	0	0	0	0	0	0	0	0	0			
TIE-PLTG		0	-27	-49	-27	-10	2	-1	-9	-14	-9	-1	-25	-25	-6	20	4	8	29	-5	8	-5	-3	4	7	16	16	7	24	1	4	55	43	-4	20	21	5	16	-9	12	-24	7	4	14	-6	35	0	24	13				
Interconnection		-30	-57	-79	-57	-40	-28	-31	-39	-44	-39	-31	-56	-55	-36	-10	-26	-22	-1	-35	-21	-34	-31	-24	-21	-12	-15	-24	-4	-30	-25	27	12	-34	-9	-7	-25	-14	-37	-17	-23	8	4	14	-6	35	0	24	13				
System Total		15716	15221	14935	14670	14340	14054	13820	13582	13480	13327	13244	13263	13471	13678	13581	13485	14064	15206	15968	16423	16828	17153	17343	17486	17410	17237	17220	17621	17948	18178	18198	18271	18306	18292	17881	17350	16917	16754	17192	17968	17946	17964	17859	17749	17520	17273	17015	16628				
SRev ST-Coal		158	168	159	259	313	322	325	328	368	376	363	416	418	422	372	387	377	278	206	157	175	142	150	162	178	156	152	158	143	145	159	148	145	164	136	161	147	160	147	164	161	155	154	157	147	145	183	165				
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	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		1130	1603	1963	2113	2331	2613	2814	2987	2961	2973	3019	2966	2937	2714	2815	2904	2592	1673	1127	904	628	392	436	321	371	502	642	971	565	527	461	486	397	316	357	708	1047	1186	856	251	203	241	249	257	380	527	733	1131				
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	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	-1	0	1	1	-1	-2	3	-2	0	-1	0	0	1	0	0	0	-1	0	-1	-1	0	0	0	1	-1	1	0	0	0	0	0	0	0	0	-1	0	0	0	-2	1	-1	0	0	-2				
Syncon		703	615	703	703	552	552	703	703	703	703	653	804	703	615	552	615	703	703	552	615	703	428	428	464	552	703	428	428	428	516	516	428	365	552	615	703	615	464	428	428	428	428	428	428	615	464	615					
Hydro		119	160	118	120	301	287	160	144	158	284	469	209	133	129	320	387	92	123	130	264	104	134	343	325	372	278	148	237	260	163	307	251	299	297	308	145	158	146	288	239	461	411	505	499	339	123	261	131				
S.Reserve Total		2196	2720	3030	3282	3583	3861	4090	4250	4276	4421	4507	4480	4278	4053	4146	4380	3852	2864	2253	1963	1696	1457	1356	1236	1385	1488	1645	1795	1395	1264	1443	1401	1443	1142	1440	1803	2142	2280	1929	1169	1253	1235	1334	1342	1380	1497	1728	2127				