

Daily System Generation Summary on Monday

Monday, March 13, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,774 MW
Distillate	0 MW
Total TNB	1,774 MW
Total IPP	18,003 MW
Total Co-Gen	0 MW
Total System	23,359 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,263	3.65 %
Gas	56,794	15.61 %
Total TNB	70,057	19.26 %
ST-Coal	200,588	55.13 %
LSS	7,131	1.96 %
Gas	85,338	23.46 %
Total IPP	293,057	80.55 %
Co-Gen	661	0.18 %
Total Co-Gen	661	0.18 %
Total Generation	363,775	99.99 %
PLTG	1,544	0.42 %
HVDC	-1,586	-0.44 %
Interconnection	-42	-0.01 %
Net Energy	363,817	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	18,301 MW
TNB Generation	3,815 MW
IPP Generation	13,417 MW
Spinning Reserve	1,041 MW
Maximum Demand	17,263 MW
Net Energy	363,817 MWH
Load Factor	87.81 %

Fuel Cost

Total Cost:	97,588,777.60 RM
Cost per Unit	26.83 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	390
Hydro	297
Syncon	488
Thermal	182
Total	1,357

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	137
Total TNB	167
EMPP	301
NPRI	146
PCGP	88
SPGP	208
Total IPP	743
Total Gas	910
Total Gas Required	910

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	14506	13799	13303	12894	12477	12385	12507	12952	13599	15280	16036	16154	16124	15893	16478	16920	17166	16847	15954	15980	16960	16789	16222	15892

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 4, 2023 9:04:57 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													
JMHE	U001	969	902	896	898	850	852	853	800	800	796	801	803	799	801	902	979	980	977	978	973	977	977	973	980	976	975	977	980	973	977	978	978	982	975	979		
JMHE	U002	965	903	898	898	851	850	850	801	799	799	798	800	797	805	800	798	801	903	974	983	982	977	976	979	978	976	979	981	976	981	981	986	979	979			
JMUG	U001	681	683	685	682	682	682	679	678	676	678	677	677	677	678	678	678	679	677	679	679	681	681	677	677	679	677	679	676	677	677	678	679	677	677			
JMUG	U002	681	679	679	682	679	683	681	681	678	680	679	677	680	680	678	682	679	679	680	678	679	678	680	678	676	678	679	684	677	681	678	678	682	685	680	678	
JMJG	U003	682	672	680	677	682	679	682	681	681	683	683	679	679	682	682	678	685	674	679	680	681	680	683	679	682	676	684	682	678	683	678	679	682	678	685	680	672
JMJG	U004	964	909	900	906	865	859	854	843	808	806	805	804	804	804	805	804	806	866	924	966	969	972	971	970	971	968	971	972	968	971	970	972	971	969	970	970	970
JMJG	U005	953	904	896	901	851	852	855	829	807	799	804	803	804	801	804	799	809	884	949	974	978	975	973	978	974	977	973	981	977	977	972	979	976	971	978	977	
PKLG	U003	265	264	221	154	156	150	151	151	151	150	151	151	150	151	150	200	257	258	258	265	266	262	263	263	264	264	263	264	265	263	264	264	263	263	262	263	264
PKLG	U004	274	274	274	244	164	153	156	151	153	153	159	158	157	156	159	171	258	277	276	274	274	275	273	273	274	277	274	275	277	272	276	273	276	275	274	274	
PKLG	U006	268	268	269	269	269	269	269	268	268	269	269	269	268	269	268	269	268	269	268	269	177	265	268	268	269	268	268	268	269	269	268	272	269	268	269	269	268
TBIN	U001	210	209	210	211	210	210	211	210	210	209	210	212	211	210	210	240	303	688	690	689	703	700	697	697	696	698	698	700	698	701	697	699	699	697	698	698	
TBIN	U003	210	211	212	210	212	210	210	211	210	212	211	211	209	212	210	210	211	210	311	507	724	700	687	691	605	525	524	521	529	532	529	557	559	664	696	693	
TBIN	U004	964	901	903	904	851	853	852	834	803	803	803	801	803	804	803	803	811	903	982	985	982	982	981	983	982	982	983	984	984	984	985	982	981	983	985	983	
Total ST-Coal		8086	7779	7723	7636	7322	7302	7303	7139	7044	7036	7050	7045	7038	7055	7059	7101	7305	7871	8560	8936	9144	9118	9012	9117	9025	8947	8951	8959	8951	8976	8965	8990	8984	9099	9128	9100	
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	
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	
EMPP	BLK1	704	702	697	696	702	697	375	377	374	374	375	379	379	510	659	711	712	719	711	705	699	708	702	699	690	687	700	710	706	692	705	698	710	710	714	707	
EMPP	BLK2	712	711	707	706	711	705	711	709	709	549	550	454	554	719	718	711	711	718	711	704	699	709	702	692	683	681	691	703	698	684	698	690	703	701	706	699	
EMPP	BLK3	704	702	698	698	702	697	711	711	709	709	710	714	713	719	718	710	711	718	708	705	699	708	702	689	681	681	690	701	696	684	695	689	702	702	704	699	
GLGR	GT02	93	92	93	92	92	93	92	92	92	92	93	92	92	93	92	93	92	92	102	109	109	109	109	109	94	93	93	93	93	93	93	93	94	93	93		
GLGR	ST1C	41	41	41	41	41	41	41	41	41	41	41	41	40	40	41	41	41	41	44	46	48	47	48	49	42	41	41	41	41	41	41	41	41	42	41		
NPRI	BLK1	523	523	517	353	395	325	331	331	328	332	329	335	343	350	351	443	523	534	521	497	494	495	503	484	500	476	435	514	506	504	438	509	503	508	506		
NPRI	BLK2	472	522	506	354	384	320	329	322	329	322	325	343	347	348	347	435	504	535	515	503	499	433	434	395	427	453	518	514	506	437	499	512	509	511	505		
PCGP	PGRG	600	600	588	600	606	587	607	604	592	601	597	613	613	620	620	603	609	619	603	585	579	594	578	580	563	562	580	603	591	571	588	595	595	595	595		
SPGP	BLK1	717	718	715	717	717	711	721	720	714	719	716	722	724	727	728	720	720	726	718	710	704	713	707	706	696	695	706	718	710	696	708	703	716	709			
SPGP	BLK2	700	703	700	704	707	700	710	710	703	709	706	715	716	715	717	710	710	717	708	699	692	704	695	695	685	685	695	704	694	680	691	685	699	696			
TJGS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	225	228	190	226	223				
TJGS	GT1B	220	219	125	128	129	131	129	125	132	128	132	127	133	126	128	132	125	222	221	220	219	198	217	218	159	114	112	106	109	210	206	179	211	212			
TJGS	ST1C	120	120	81	79	79	79	78	79	79	79	79	78	79	79	78	79	117	112	120	119	108	115	119	107	77	76	72	72	214	240	249	246	248	166			
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	0	44	43	130	200	220	220	220	220			
TJGS	GT2B	219	219	159	158	159	159	159	159	159	159	159	159	159	159	159	159	160	224	223	223	223	195	223	223	198	153	153	153	118	133	186	184	207	213			
TJGS	ST2C	117	117	95	95	94	94	94	94	94	94	94	94	94	94	94	94	119	119	119	120	108	120	120	120	93	93	96	84	188	243	229	246	252				
Total CCGT-Gas		5942	5989	5722	5421	5518	5339	5088	5081	5047	4915	4906	4867	4986	5299	5451	5640	5791	6101	6024	5945	5903	5829	5855	5778	5645	5513	5500	5776	5797	6251	6397	6403	6633				
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	0	0	0	0	0	0	0		
BSIA	HY01	11	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	11	11	11			
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	0	0	0	0	0	0	0	0	0	0		
CEND	HY01	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	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	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	7	7	7	7	7	7	7	7	7	7	7		
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
HTRG	HY03	3	3	3	3	4	4	4	4	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3		
HTRG	HY04	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
KNRG	HY01	35	35	35	35	35	35	36	35	35	35	35	36	36	36	35	35	35	36	35	35	35	35	35	35	35	35	35										

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				
KNYR	HY03	54	55	55	54	55	54	55	54	55	55	55	55	55	54	54	54	55	55	0	0	0	91	92	93	94	95	95	54
KNYR	HY04	60	60	60	59	59	60	60	59	60	60	60	60	60	59	59	59	59	60	60	60	60	59	60	59	60	60	59	
LPIA	HY01	12	12	12	12	12	12	12	12	12	12	12	12	12	15	16	16	16	16	16	16	16	16	16	16	16	16	16	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
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	3	3	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	50	31	31	31	31	31	31	31	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	50	31	31	31	31	31	31	31	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	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	25	25	25	25	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	25	25	25	25	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	25	25	25	25	0	0	
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	29	29	32	35	88	84	37	86	88	88	87	0	
TMGR	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	85	84	
TMGR	HY04	81	54	40	41	50	40	84	43	42	57	41	84	86	85	85	46	78	85	41	39	39	62	67	38	37	37	38	
UJLI	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	92	88	-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	91	-1	-1	-1	-1	-1	-1	
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	
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	5	5	
Total Hydro		437	393	379	377	388	378	425	340	340	355	338	382	385	384	384	344	378	387	342	337	367	392	488	525	468	468	474	504
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	0	0	0
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	10	14	17	13	20	21	24	18	14	26	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	16	19	23	26	28	30	31	32	28	28	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	16	20	25	28	31	32	32	32	32	32	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	11	21	23	29	23	47	31	35	30	26	27	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	17	23	27	28	34	32	31	25	24	24	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	14	17	24	9	13	30	29	30	30	27	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	14	22	29	34	40	43	47	48	46	50	48	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	17	22	26	29	31	31	31	31	31	25	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	19	18	10	33	46	38	36	39	47	32	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	15	29	42	53	22	75	83	89	92	92	92	90	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	10	22	28	33	38	41	44	46	49	49	49	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	14	18	23	27	29	30	30	30	30	30	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	11	16	34	78	84	98	78	99	74	82	74	99	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	10	13	20	26	29	29	25	27	30	30	
MALS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	18	19	20	24	27	31	29	29	29	29	29	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	19	24	16	40	34	39	39	47	46	45	46	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	32	56	63	65	89	85	86	73	94	86	91		
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	22	33	76	69	100	75	101	95	100	100	100	106	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	12	17	15	21	42	21	40	52	52	38	31	44	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	12	16	24	30	29	28	29	32	49	48	45	45	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	8	11	14	14	3	8	19	14	21	10	21	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	12	19	8	3	4	10	30	23	22	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	86	208	360	530	614	754	794	885	947	945	943	941	1007
ESTL	ESTL	17	16	19	15	15	17	8	14	13	16	18	8	13	19	18	23	21	19	23	0	0	1	12	15	16	18	18	18
KHTC	BLK1	0	0	0	0	0	0	0	2	1	1	2	3	4	5	2	1	4	1	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	3	2	4	3	4	3	3	4	3	3	4	3	3	4	4	5	4	4	4	4	4	2	4	3	4	4	4	5
PCUF	CUFK	3	2	3	3	1	4	2	3	2	2	3	4	4	3	4	5	3	3	3	3	3	3	3	3	2	4	3	

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		
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	6	6	6	6	6	8	8	8	7	7	7	7	6	6	6	6	6	6	6	6					
Total Co-Gen		29	26	32	27	26	30	19	29	25	28	33	24	30	37	33	38	41	33	36	13	13	14	23	28	28	30	32	31	28	28	29	25	29	28	29	24	27	31	29	29	24	30	26	23	20	22	23	31	
Total Gen		14494	14187	13856	13461	13254	13049	12835	12589	12456	12334	12327	12318	12439	12775	12927	13127	13601	14600	15322	15761	16041	16107	16172	16333	16113	15903	15900	16211	16492	16947	16941	17105	17177	17260	16916	16480	16048	15863	16009	16697	16972	16952	16812	16540	16194	16037	15896	15576	
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		
TIE-HVDC		29	31	31	-28	-28	-28	-28	-29	-29	-30	-30	-30	-30	-29	-29	-50	-49	-97	-100	-100	-98	-97	-98	-97	-99	-99	-99	-98	-98	-97	-97	-98	-97	-97	-97	-97	-97	-97	-98	-98	-100	-97	-98	-97	-48	-48	-50	-28	
TIE-PLTG		-42	-18	26	-31	-21	-9	-31	-9	8	20	-28	-39	-38	-15	4	96	52	51	142	185	103	48	115	70	88	76	106	86	113	87	118	86	109	94	166	200	191	96	127	140	112	117	122	75	20	41	54	28	
Interconnection		-12	13	57	-59	-49	-37	-59	-38	-21	-10	-58	-69	-68	-44	-25	46	2	-46	42	85	5	-49	18	-27	-11	-22	7	-14	14	-11	21	-11	11	-3	69	103	94	-1	29	42	12	21	23	-23	-28	-7	4	0	
System Total		14506	14174	13799	13520	13303	13086	12894	12627	12477	12344	12385	12387	12507	12819	12952	13081	13599	14646	15280	15676	16036	16156	16154	16360	16124	15925	15893	16225	16478	16958	16920	17116	17166	17263	16847	16377	15954	15864	15980	16655	16960	16931	16789	16563	16222	16044	15892	15576	
SRev ST-Coal		1200	1507	1538	1545	1552	1545	1553	1561	1561	1556	1555	1564	1560	1553	1556	1561	1499	1355	726	350	142	168	217	169	161	139	135	127	135	110	121	96	102	-13	-42	186	194	347	361	185	165	173	174	164	356	584	703	701	
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	
SRev CCGT-Gas		269	222	489	790	693	872	1123	1130	1164	1296	1305	1344	1225	912	760	571	420	110	187	266	308	382	356	433	566	698	711	657	862	668	522	516	286	284	285	560	746	669	455	248	220	270	312	334	368	301	325	485	
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 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	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	353	626	626	626	626	439	126	126	313	626	626	626	626	626			
Hydro		214	171	185	187	176	186	139	224	224	209	226	182	179	180	180	220	186	177	222	227	284	259	163	277	334	334	328	298	243	199	329	339	304	417	286	301	279	261	232	244	400	467	373	317	209	207	206	289	
S.Reserve Total		2223	2440	2752	3062	2961	3143	3355	3455	3489	3601	3626	3630	3504	3185	3036	2892	2645	2182	1675	1383	1274	1349	1276	1419	1601	1711	1714	1622	1780	1517	1512	1491	1232	1041	1155	1673	1845	1903	1674	1116	911	1036	1172	1441	1559	1718	1860	2101	