

Daily System Generation Summary on Monday

Monday, December 12, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,333 MW
Distillate	0 MW
Total TNB	2,333 MW
Total IPP	19,324 MW
Total Co-Gen	0 MW
Total System	24,740 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,316	5.57 %
Gas	42,222	12.84 %
Total TNB	60,538	18.41 %
ST-Coal	178,834	54.39 %
ST-Gas	1,452	0.44 %
LSS	3,116	0.95 %
Gas	83,927	25.53 %
Total IPP	267,329	81.30 %
Co-Gen	648	0.20 %
Total Co-Gen	648	0.20 %
Total Generation	328,515	99.91 %
PLTG	23	0.01 %
HVDC	-310	-0.09 %
Interconnection	-287	-0.09 %
Net Energy	328,802	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:	19:30:00 Hour
Total Set On Bus	17,653 MW
TNB Generation	3,454 MW
IPP Generation	12,160 MW
Spinning Reserve	2,007 MW
Maximum Demand	15,554 MW
Net Energy	328,802 MWH
Load Factor	88.08 %

Fuel Cost

Total Cost:	111,899,536.94 RM
Cost per Unit	34.06 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	650
Hydro	639
Syncon	680
Thermal	616
Total	2,585

Time	Weather	Temperature
Afternoon	Rainy	30
Morning	Cloudy	25

Gas Usage

Station	(mmcsfd)
TJGS	87
Total TNB	87

CBPS	40
EMPP	263
NPRI	132
PCGP	79
PKLG	15
PLPS	36
SPGP	189
Total IPP	755
Total Gas	842

Total Gas Required	842
---------------------------	------------

Alternate Fuel Usage

Station	(mmcsfd)
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	12632	12156	11663	11342	11229	11200	11368	11781	12352	13641	14450	14825	14845	14532	15085	15292	15400	15048	14546	15124	15444	15242	14672	14240

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, January 4, 2023 8:43:41 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	683	354	259	217	213	214	214	214	213	214	215	214	214	215	215	214	214	214	214	215	213	215	213	258	347	547	702	704	704	706	708	705	
JMAH	U002	703	708	705	706	567	327	219	214	213	211	213	213	214	213	213	213	214	213	213	213	214	214	214	214	214	214	211	213	215	213	213	213	
JMHE	U001	801	797	800	801	800	802	800	802	801	803	798	799	799	800	800	801	797	798	938	954	951	951	949	953	949	949	950	951	951	956	968	977	977
JMHE	U002	836	797	801	797	802	801	800	802	802	799	799	800	799	799	798	800	802	797	797	934	951	952	950	949	952	947	949	945	950	951	953	965	963
JMJG	U001	673	671	668	671	673	672	671	669	672	673	672	673	673	674	672	669	674	671	673	676	671	673	676	671	673	676	671	673	676	671	549	545	547
JMJG	U002	678	680	674	678	678	679	681	678	678	678	679	677	677	679	678	678	681	676	677	683	676	679	680	678	679	671	679	679	681	676	681	678	
JMJG	U003	668	671	673	671	670	671	672	668	671	672	668	671	671	672	669	671	672	671	672	669	671	675	670	634	612	670	670	670	677	666	671	672	
JMJG	U005	823	798	801	804	801	800	801	801	800	801	799	798	801	803	804	801	798	801	800	918	952	952	946	954	953	952	950	952	951	955	972	972	
PKLG	U004	155	156	151	157	156	158	152	156	154	154	130	157	153	156	155	156	155	154	156	156	155	154	156	155	155	155	155	156	154	156	153	155	
PKLG	U005	269	269	269	268	271	269	267	269	271	268	268	269	268	271	268	269	268	268	268	269	267	269	268	268	269	269	268	269	268	269	268	269	
PKLG	U006	268	269	268	269	268	268	269	271	269	268	268	268	268	268	268	268	268	268	268	269	269	268	268	269	269	267	269	268	269	268	268	269	
TBIN	U001	701	696	700	699	692	409	217	215	212	212	213	213	210	217	250	375	615	706	698	696	700	700	698	698	699	699	704	697	698	698	697	696	
TBIN	U002	702	702	702	702	702	701	702	702	672	511	338	211	215	213	215	215	214	217	214	215	214	214	214	215	215	214	215	286	448	623	697	699	
TBIN	U003	0	0	0	0	0	0	0	0	209	267	314	427	561	617	601	637	654	652	651	648	646	650	651	652	654	662	670	664	660	673	663	660	
Total ST-Coal		7960	7568	7471	7440	7293	6771	6465	6461	6638	6530	6373	6394	6525	6588	6572	6645	6788	7017	7103	7493	7551	7565	7554	7517	7506	7571	7558	7567	7574	7649	7811	8031	
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	
PKLG	U002	66	30	0	0	0	0	0	0	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		66	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	21	18	73	86	85	84	85	85	85	85
CBPS	BLK2	199	197	201	200	191	204	202	201	200	200	199	201	196	202	201	201	201	198	201	197	201	197	199	214	360	196	194	201	269	361	359	358	
EMPP	BLK1	409	407	411	409	397	410	416	411	409	410	410	409	409	414	416	411	409	408	674	693	711	706	710	710	707	691	695	709	709	710	695	703	
EMPP	BLK2	409	406	411	409	397	411	414	411	409	410	410	409	409	416	416	411	409	682	708	692	711	706	710	709	711	691	689	709	709	710	694	700	
EMPP	BLK3	409	406	412	409	396	411	414	411	410	412	410	409	409	415	415	412	420	685	708	693	711	707	710	709	711	691	689	708	709	710	693	699	
NPRI	BLK1	326	325	332	329	317	331	332	330	329	329	323	331	330	331	329	323	328	324	380	520	524	524	490	487	464	524	525	527	514	520	523	510	
NPRI	BLK2	322	323	329	327	313	329	330	328	326	329	328	328	321	338	333	330	328	321	327	321	349	455	524	524	440	351	321	328	492	526	473	491	
PCGP	PGRG	394	394	398	397	394	403	402	400	397	400	398	400	398	402	401	403	600	591	598	591	603	591	598	599	594	590	583	598	601	599	596	601	
PLPS	GT13	124	124	125	124	124	124	123	125	124	124	125	124	124	125	124	125	124	124	124	125	125	125	125	125	124	124	124	125	125	124	124	144	
PLPS	ST18	59	58	59	59	58	58	59	58	59	58	59	59	58	59	59	60	60	60	59	60	59	60	59	60	59	59	58	59	59	59	59	60	
SPGP	BLK1	355	361	361	361	360	362	361	361	362	359	362	361	361	579	720	717	711	715	710	718	713	716	716	717	711	707	717	718	720	714	716	714	
SPGP	BLK2	398	541	532	448	387	711	719	474	415	415	628	681	648	719	716	719	716	709	717	709	720	712	718	716	718	711	705	719	718	718	713	714	
TJGS	GT1B	133	129	130	128	128	129	129	131	129	130	128	130	130	129	130	128	129	132	129	130	127	130	130	132	129	131	131	130	131	216	222	125	
TJGS	ST1C	77	78	77	78	78	77	77	78	78	77	78	78	77	77	78	78	78	77	78	78	78	78	78	78	78	78	78	78	110	119	79		
TJGS	GT2B	161	161	161	161	161	161	161	162	161	162	161	161	161	159	160	161	161	162	160	160	160	160	160	160	160	160	160	160	160	160	159	160	
TJGS	ST2C	95	95	95	95	95	95	95	96	95	95	95	95	96	95	95	95	95	96	95	95	95	95	95	95	95	95	95	95	95	95	95	94	
Total CCGT-Gas		3870	4005	4034	3935	3796	4215	4235	3975	3903	3915	4116	4175	4122	4241	4452	4584	4776	5280	5621	5577	5749	5954	6056	6071	6094	5766	5694	5859	6097	6345	6230		
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	
BSIA	HY01	12	12	12	12	12	12	12	12	12	12	12	12	12	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	13	12	22		
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	0	0	0	0	0	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	11		
CEND	HY01	10	10	9	9	9	9	9	9	9	9	9	9	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
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	
HTRG	HY01	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	63	63	63	63	62	63	63	63	62	62	62	0		
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	65	
HTRG	HY03	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	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	
KNRG	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	0	0	0	0	0	0	23	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
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	38	38	38	38	38	38	37	38	37	37	23	23
KNRG	HY03	39	39	39	39	39	39	39	39	39	39	39	38	38	38	38	38	38	38	38	38	37	21	21	
KNYR	HY01	100	100	100	100	100	101	100	100	100	100	100	100	59	60	60	60	60	59	59	60	100	58	59	
KNYR	HY02	0	0	0	0	0	0	94	102	102	102	102	102	60	60	60	61	61	61	61	95	60	60	61	
KNYR	HY03	99	98	98	97	96	96	95	95	95	96	96	97	66	66	65	67	66	65	65	91	92	95	54	
KNYR	HY04	101	101	101	101	101	101	101	101	101	101	101	101	69	92	95	95	101	61	61	99	96	79	60	
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	
PGAU	HY01	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	19	-1	-1	-1	22	21	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	22	-1	-1	
PGAU	HY03	21	21	21	21	22	21	22	22	22	22	22	22	21	21	21	21	21	21	21	22	21	21	21	
PGAU	HY04	21	21	22	22	21	22	22	22	22	22	22	22	21	21	21	22	21	21	21	22	21	21	21	
SIHY	HY01	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	51	51	51	
SIHY	HY02	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	30	30	50	50	50	
SIHY	HY03	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	30	30	50	50	50	
SYPS	HY01	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	16	0		
SYPS	HY03	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	
SYPS	HY04	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	32	-1	-1	
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	33	0	-1	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32	2	0	
TMGR	HY04	41	40	43	50	38	41	84	41	41	41	40	82	82	59	44	43	46	84	67	41	44	51	41	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	90	-1	-1	87	88	89	-1	-1	126	141	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	93	92	-1	-1	95	125	143	141	
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
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	
Total Hydro		717	715	627	558	544	569	592	642	650	650	651	651	673	715	696	673	656	655	675	715	732	733	710	769
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	2	5	6	7	8	7	13	15	15	13	14	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	8	15	14	28	20	10	18	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	7	9	9	10	6	14	15	20	23	23	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	10	22	20	24	27	31	35	21	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	13	18	16	23	27	22	18	19	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	4	5	7	20	29	18	16	24	21	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	7	9	12	18	20	22	16	18	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	5	13	16	20	26	32	24	13	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	12	20	22	26	24	21	21	35	72	71	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	6	9	17	14	17	19	12	17	24	46	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	6	8	11	8	6	6	17	20	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	25	38	47	53	77	73	60	59	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	18	18	15	20	18	25	15	12	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2	4	2	7	11	16	15	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	1	1	4	2	4	13	28	42	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	6	11	16	29	37	52	57	78	105	111	85	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	9	11	20	25	24	31	34	18	
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	14	15	15	8	18	26	22	24	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	2	11	7	3	9	10	5	8	

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			
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	8	11	10	14	21	25	25	26	30	23	21	13	7	4	6	6	4	2	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	7	50	94	158	243	309	361	413	485	548	577	566	446	325	303	333	256	215	204	158	108	60	22	1	1	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	20	22	21	21	23	23	18	24	22	18	20	20	19	20	21	20	22	19	20	17	15	16	17	17	20	20	23	22	19	24	28	26	18	19	21	13	15	17	25	23	22	22	18	19	22	22	22	22		
PCUF	CUFG	4	2	2	3	3	3	3	4	3	4	4	4	3	2	3	5	3	3	4	3	4	2	3	3	3	4	3	4	4	4	3	3	3	3	2	2	4	5	4	3	3	4	4	4	5	3				
PCUF	CUFK	2	3	2	2	3	3	4	3	2	4	3	5	3	3	2	3	4	4	3	4	3	2	3	3	4	3	4	5	3	4	3	4	3	3	1	2	3	4	5	4	4	4	4	4	4	3				
Total Co-Gen		26	27	25	26	29	29	25	31	27	26	27	26	29	25	25	26	28	29	26	27	24	22	20	23	23	27	29	30	28	31	36	32	25	26	27	16	19	24	34	32	29	29	26	26	30	30	31	28		
Total Gen		12639	12345	12157	11959	11662	11584	11317	11109	11218	11121	11167	11249	11345	11569	11746	11937	12299	13072	13584	14052	14363	14633	14773	14886	14763	14582	14500	14779	15005	15318	15277	15268	15378	15366	15088	14849	14641	14659	15224	15646	15501	15445	15298	15043	14712	14481	14228	13956		
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	-28	-28	-28	-28	-28	-30	-29	-29	-29	-29	-28	-31	-28	-28	-29	-29	-29	-29	-30	-30	-29	-29	-29	-28	-29	-29	-30	-28	-30	-30	-28	-28	-30	31	28	31	29	28	31	31	31	31	31	31	31	29	31		
TIE-PLTG		37	49	29	11	27	26	3	15	17	-23	-4	-2	5	25	-6	-18	-24	-57	-28	-31	-57	-73	-23	-22	-53	-19	-3	-17	-50	-47	15	-9	7	-7	70	14	67	41	71	64	26	35	25	-6	9	-15	-41	-4		
Interconnection		7	21	1	-17	-1	-3	-25	-15	-11	-52	-33	-31	-23	-6	-35	-46	-53	-86	-57	-60	-87	-103	-52	-50	-82	-47	-32	-45	-80	-75	-15	-39	-22	-36	40	45	95	72	100	92	57	65	56	24	40	15	-12	27		
System Total		12632	12324	12156	11976	11663	11587	11342	11124	11229	11173	11200	11280	11368	11575	11781	11983	12352	13158	13641	14112	14450	14736	14825	14936	14845	14629	14532	14824	15085	15393	15292	15307	15400	15402	15048	14804	14546	14587	15124	15554	15444	15380	15242	15019	14672	14466	14240	13929		
SRev ST-Coal		480	534	538	530	614	676	676	682	800	781	1137	1021	888	831	850	813	790	794	724	643	580	569	578	615	627	564	574	568	561	553	558	510	446	444	460	471	459	415	465	653	895	871	787	683	433	390	366	326		
SRev CCGT-Gas		2791	2656	2627	2726	2865	2446	2426	2686	2758	2746	2545	2486	2539	2420	2209	2077	1885	1381	1040	1084	912	707	605	590	567	895	967	802	564	316	431	516	404	408	570	630	626	648	338	219	315	527	640	813	1357	1664	1963	2036		
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		
SRev ST-Gas		9	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 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 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		978	978	978	978	978	827	978	978	978	978	978	978	827	827	978	978	978	978	827	827	978	791	791	791	978	978	978	791	791	604	640	640	791	791	791	978	978	978	791	126	126	126	365	642	642	512	491	491		
Hydro		453	455	393	387	401	527	353	403	395	395	394	394	523	481	349	372	389	390	521	521	353	539	562	503	515	517	518	605	500	679	766	703	581	579	632	525	528	518	497	1010	904	961	917	654	559	574	609	619		
S.Reserve Total		4711	4668	4536	4621	4858	4476	4433	4749	4931	4900	5054	4879	4777	4559	4386	4240	4042	3543	3112	3075	2823	2606	2594	2553	2744	2956	3036	2766	2417	2152	2395	2370	2222	2222	2453	2594	2603	2558	2090	2007	2239	2494	2720	2878	3077	3226	3553	3576		