

Daily System Generation Summary on Monday

Monday, June 20, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,136 MW
Distillate	0 MW
Total TNB	2,136 MW
Total IPP	17,712 MW
Total Co-Gen	0 MW
Total System	24,127 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,658	3.21 %
Gas	48,303	13.28 %
Total TNB	59,961	16.49 %
ST-Coal	203,553	55.97 %
LSS	4,365	1.20 %
Gas	93,547	25.72 %
Total IPP	301,465	82.90 %
Co-Gen	895	0.25 %
Total Co-Gen	895	0.25 %
Total Generation	362,321	99.63 %
PLTG	-736	-0.20 %
HVDC	-608	-0.17 %
Interconnection	-1,344	-0.37 %
Net Energy	363,665	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:	15:30:00 Hour
Total Set On Bus	19,002 MW
TNB Generation	3,397 MW
IPP Generation	13,543 MW
Spinning Reserve	2,026 MW
Maximum Demand	17,054 MW
Net Energy	363,665 MWH
Load Factor	88.85 %

Fuel Cost

Total Cost:	93,690,755.24 RM
Cost per Unit	25.87 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,052
Hydro	436
Syncon	528
Thermal	175
Total	2,191

Time	Weather	Temperature
Afternoon	Cloudy	32
Morning	Cloudy	22

Gas Usage

Station	(mmcsfd)
GLGR	57
TJGS	115
Total TNB	172
CBPS	44
EMPP	262
NPRI	148
PCGP	73
PGLA	20
PLPS	75
SPGP	162
Total IPP	784
Total Gas	956
Total Gas Required	956

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	14585	13859	13363	12950	12629	12469	12755	12863	13559	15362	16076	16504	16278	15990	16495	16968	17051	16754	15781	15768	16718	16691	16046	15637

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 4, 2022 2:27:48 PM

(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	696	696	699	696	695	696	694	697	679	605	604	604	608	696	694	698	696	694	696	696	695	696	698	695	695	696	694	695	697																					
JMAH	U002	691	697	695	698	696	693	696	695	679	605	605	605	604	696	694	696	697	696	698	699	697	694	694	695	694	696	697	696	693	695	695	692																		
JMJG	U001	669	664	667	669	668	668	667	669	669	664	670	670	668	669	668	672	669	668	668	668	672	667	668	667	671	669	669	668	669	668	666	668	666	667	667	670	666													
JMJG	U002	673	674	673	673	673	673	672	673	675	673	677	678	674	671	673	677	673	673	673	680	682	673	679	675	672	677	676	674	671	679	676	673	675	675	673	672	674	673	674	675	678	677								
JMJG	U003	667	664	657	662	669	672	662	667	665	668	660	668	666	662	660	666	672	666	668	653	672	663	662	674	662	660	664	668	667	661	666	662	671	662	667	661	671	669	668	664	661	663	670	663	668	663	661	667		
JMJG	U004	929	933	932	877	876	835	834	803	801	800	803	805	803	801	801	801	803	856	910	967	974	983	978	983	975	981	983	978	977	978	980	980	981	978	983	980	980	979	982	977	983	981	980	977	977	977	980	977		
JMJG	U005	926	927	927	866	868	829	828	796	799	803	801	799	798	800	798	801	799	917	977	971	973	975	974	973	972	973	973	971	972	970	972	974	970	972	976	973	972	972	972	972	967	973	973	972	972	972	972			
PKLG	U003	276	278	251	208	207	206	207	145	148	149	150	150	150	205	209	246	272	281	278	277	280	239	269	273	229	257	266	267	272	275	278	276	277	276	278	277	276	276	268	274	277	275	276	277	276	278	276	275		
PKLG	U004	273	268	251	205	205	206	203	164	151	153	154	154	154	208	204	234	267	274	277	274	270	273	262	271	268	272	270	267	272	274	271	273	274	272	273	274	278	274	270	263	257	270	271	274	276	268	270	273		
PKLG	U005	467	469	444	389	405	405	376	298	267	269	267	270	269	273	349	342	427	466	468	468	466	464	468	469	457	468	467	464	468	468	466	469	468	459	466	463	469	467	460	466	467	466	464	476	472	471	466	471		
PKLG	U006	449	449	448	449	450	446	449	448	448	446	449	449	449	449	450	447	446	448	436	451	446	449	449	449	449	448	445	450	446	446	450	449	449	446	450	450	446	447	448	447	449	449	449	450	447	447	450			
TBIN	U002	693	498	615	703	698	709	699	702	706	700	700	698	699	700	697	691	691	690	691	692	691	691	693	691	691	691	691	694	692	689	690	690	691	691	688	690	690	691	692	692	690	691	690	692	682	692	691			
TBIN	U003	691	692	690	691	690	691	692	691	690	690	689	690	689	691	689	694	692	691	692	625	235	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TBIN	U004	937	937	933	874	873	834	832	803	804	802	804	803	802	803	803	803	802	879	943	943	941	939	943	940	942	941	942	942	941	940	941	940	941	940	941	940	940	940	940	940	940	940	938	940	940	940	937			
Total ST-Coal		9037	8846	8882	8660	8673	8563	8511	8251	8181	8027	8033	8043	8033	8324	8389	8468	8606	8899	9075	9058	8679	8463	8437	8461	8388	8401	8443	8427	8446	8442	8443	8449	8451	8434	8450	8445	8464	8445	8430	8429	8427	8433	8448	8449	8453	8429	8442	8445		
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			
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			
CBPS	BLK2	222	218	222	223	222	223	217	219	219	218	219	213	219	223	209	212	220	222	225	353	361	354	360	353	354	354	358	361	358	361	360	313	221	300	264	218	218	219	221	223	361	361	357	324	215	217	216	217		
EMPP	BLK1	523	509	410	490	418	431	404	419	434	413	415	398	430	412	390	369	469	577	705	691	712	682	709	700	698	630	635	709	708	711	711	680	708	710	701	670	632	578	598	709	709	712	709	687	659	649	550	445		
EMPP	BLK2	521	516	411	489	417	380	373	377	379	376	377	368	383	378	360	369	468	579	705	694	712	684	710	701	701	639	649	708	707	711	711	671	708	708	700	671	631	577	595	708	708	711	711	683	658	649	546	446		
EMPP	BLK3	520	515	451	490	414	379	373	377	379	376	378	368	382	378	360	368	472	581	705	700	709	686	711	701	702	640	651	709	707	711	711	682	707	709	702	656	606	551	570	711	708	711	711	688	662	634	521	420		
GLGR	GT01	111	110	86	84	83	85	84	85	85	85	85	83	84	84	83	83	85	100	103	104	104	103	104	103	103	103	104	104	103	104	104	104	104	103	101	84	84	84	84	84	106	106	106	106	109	109	110	109		
GLGR	GT02	107	107	83	83	84	84	84	84	84	84	84	84	84	84	84	84	84	100	103	103	104	103	103	103	103	103	103	102	102	103	103	103	103	103	102	98	83	83	83	83	83	106	106	106	106	107	108	107	108	
GLGR	ST1C	98	99	87	83	83	83	83	84	83	83	83	83	83	83	83	83	83	86	88	93	93	93	93	93	93	94	94	94	94	93	94	93	94	93	93	83	83	83	83	83	90	90	90	90	98	98	98	99		
NPRI	BLK1	514	509	467	446	445	397	341	344	305	304	305	297	305	349	290	304	346	516	511	506	511	506	513	506	506	503	508	515	512	516	517	511	514	516	507	509	509	511	515	516	515	515	512	506	505	507	506	507		
NPRI	BLK2	517	514	471	449	397	399	391	394	344	343	345	336	347	349	331	333	345	520	515	511	520	511	536	530	529	527	532	518	514	520	520	513	519	520	509	512	513	515	520	520	519	518	516	509	509	511	510	509		
PCGP	PGRG	397	399	399	402	400	401	401	402	400	400	398	400	400	401	402	406	404	405	408	585	601	585	595	585	522	400	403	401	594	601	601	590	602	604	582	402	401	399	400	602	602	602	596	585	432	399	398	397		
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	9	92	92	92	91	91	91	111	121	182	166	167	163	164	162	164	165	165	166	164	161	159	161	162	162				
PGLA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	149	141	139	139	137	138	141	139	142	140	137	142	141	137	113	66	65	114	134	134	134	135	132	145	144	144	143			
PLPS	GT12	143	144	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	143	143	140	117	69	69	119	139	139	138	138	135	151	146	147	148
PLPS	GT13	139	138	106	123	124	124	125	124	124	125	124	125	125	124	124	125	126	125	125	122	123	123	127	124	124	122	123	126	124	126	127	122	142	141	138	110	64	63	111	130	131	130	130	128	145	139	142	141		
PLPS																																																			

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	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
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	-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	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	33	33	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	38	38	38	38	38	38	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
KNRG	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
KNYR	HY01	96	97	96	99	99	97	96	96	96	96	96	99	95	96	96	98	99	97	98	-1	-1	-1	-1	-1
KNYR	HY02	96	97	97	100	100	97	97	96	96	97	96	96	97	99	96	98	98	97	97	97	97	97	97	97
LPJA	HY02	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
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	HY03	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	22
PGAU	HY04	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	21	21	21	21	21
SIHY	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
SIHY	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
TMGR	HY01	86	59	84	85	51	70	42	58	60	48	49	40	53	46	40	39	41	69	86	42	56	43	53	48
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	33	0	33	86	86	-1	-1
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	33	85	33	34	34	-1	-1
UJLI	HY01	74	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	91	85	89	93	85	86
UJLI	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
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	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	5
Total Hydro		554	455	480	487	453	467	406	421	423	412	412	403	417	415	402	386	405	437	455	407	424	398	410	314
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	0	0	0	0	0	0	0	0	0	0	0	0
BKLS	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
BSLS	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
CHLS	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
GBLS	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
GELS	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
GNLS	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
JELS	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
JLSL	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	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
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	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
KNLS	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
KRLS	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
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
PKLS	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
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	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
TBLS	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
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
PCUF	CUFG	29	28	30	27	28	28	29	29	29	28	29	28	26	28	28	27	26	29	28	28	29	28	28	28
PCUF	CUFK	9	8	10	8	9	9	8	9	9	10	9	9	9	10	9	9	8	7	11	11	10	9	9	10

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		
Total Co-Gen		38	36	40	35	37	37	37	38	38	38	38	37	35	37	38	37	37	35	33	40	39	38	38	36	38	37	36	38	37	36	36	35	38	38	38	38	37	40	36	39	37	37	37	38	38	37			
Total Gen		14564	14241	13822	13598	13318	13123	12900	12688	12543	12410	12420	12481	12709	12953	12852	12954	13529	14647	15342	15712	16019	16302	16435	16456	16213	15892	15928	16150	16429	16736	16895	16976	17000	16955	16694	16121	15730	15490	15713	16455	16669	16692	16633	16404	15992	15883	15580	15217	
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	29	29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-28	-27	-28	-28	-27	-28	-29	-29	-30		
TIE-PLTG		-50	-37	-66	-33	-16	-32	-21	-41	-57	-54	-20	-9	-17	-11	18	-3	-1	-37	9	-52	-27	-25	-40	-59	-35	-38	-33	-43	-37	-64	-44	-48	-22	-33	-31	-41	-23	-12	-26	-40	-22	-52	-30	-45	-26	-11	-28	-10	
Interconnection		-21	-8	-37	-62	-45	-61	-50	-69	-86	-83	-49	-38	-46	-40	-11	-32	-30	-66	-20	-82	-57	-54	-69	-88	-65	-67	-62	-72	-66	-93	-73	-78	-51	-62	-60	-69	-51	-40	-55	-68	-49	-80	-58	-73	-54	-40	-57	-40	
System Total		14585	14249	13859	13660	13363	13184	12950	12757	12629	12493	12469	12519	12755	12993	12863	12986	13559	14713	15362	15794	16076	16356	16504	16544	16278	15959	15990	16222	16495	16829	16968	17054	17051	17017	16754	16190	15781	15530	15768	16523	16718	16772	16691	16477	16046	15923	15637	15257	
SRev ST-Coal		266	317	410	445	446	464	482	468	502	609	606	598	603	479	486	475	448	345	228	245	174	274	166	142	189	202	160	176	157	161	160	154	152	169	153	158	139	158	173	174	175	170	155	154	150	174	161	158	
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		
SRev CCGT-Gas		1891	1922	2406	2209	2676	2775	2885	2853	2930	3162	3158	2965	2739	2786	2943	2921	2563	1851	1471	1379	1252	890	766	749	1098	1499	1620	1439	1262	1105	930	1071	1008	916	1034	1485	1807	1967	1712	1067	877	869	891	1116	1307	1186	1505	1806	
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	
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		489	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	590	590	777	777	777	689	689	601	313	313	313	401	401	489	489	489	489	489	489	489	489	489	489	489	676	676	676	
Hydro		398	310	285	278	312	298	319	304	302	313	313	322	308	310	323	339	320	288	270	318	301	413	401	310	301	317	370	327	424	528	426	488	514	506	449	508	509	505	493	497	462	456	506	511	516	408	405	369	
S.Reserve Total		3044	3225	3777	3608	4110	4213	4362	4301	4410	4760	4753	4561	4326	4251	4428	4411	4007	3160	2645	2618	2403	2167	1923	1978	2365	2795	2839	2631	2531	2107	1829	2026	2075	2092	2125	2640	2944	3119	2867	2227	2003	1984	2041	2270	2462	2444	2747	3009	