

Daily System Generation Summary on Monday

Monday, September 6, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,069 MW
Distillate	0 MW
Total TNB	2,069 MW
Total IPP	17,665 MW
Total Co-Gen	0 MW
Total System	22,682 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,173	5.55 %
Gas	36,775	10.65 %
Total TNB	55,948	16.21 %
ST-Coal	207,651	60.15 %
LSS	3,247	0.94 %
Gas	77,332	22.40 %
Total IPP	288,230	83.50 %
Co-Gen	1,305	0.38 %
Total Co-Gen	1,305	0.38 %
Total Generation	345,483	100.08 %
PLTG	987	0.29 %
HVDC	-704	-0.20 %
Interconnection	283	0.08 %
Net Energy	345,200	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:30:00 Hour
Total Set On Bus	17,768 MW
TNB Generation	2,960 MW
IPP Generation	13,484 MW
Spinning Reserve	1,270 MW
Maximum Demand	16,457 MW
Net Energy	345,200 MWH
Load Factor	87.40 %

Fuel Cost

Total Cost:	53,035,601.59 RM
Cost per Unit	15.34 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	217
Hydro	331
Syncon	453
Thermal	357
Total	1,358

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Cloudy	26

Gas Usage

Station	(mmcsfd)
GLGR	34
SRDG	2
TJGS	105
Total TNB	140
CBPS	54
NPRI	152
PGLA	56
PLPS	7
SKSP	20
Total IPP	290
Total Gas	430

Total Gas Required 430

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	13771	13174	12651	12258	12097	11824	11899	12069	12656	14298	15036	15587	15625	15602	16103	16412	16358	15760	14914	14797	15749	15552	15202	15074

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:48:07 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	398	299	302	301	300	300	300	301	301	301	300	301	301	302	301	301	400	506	604	601	686	692	693	694	689	693	692	692	691	692	693	692	693	692	691	649	553	551	654	693	652	652	602	600	550	552	504		
JMAH	U002	361	279	307	305	305	305	304	305	304	305	304	303	306	305	305	303	416	512	607	608	678	693	701	696	695	696	696	696	693	698	694	692	696	698	697	653	552	555	650	686	654	655	603	603	555	556	504		
JMHE	U001	921	916	851	852	799	779	777	780	777	783	780	777	782	784	784	779	784	908	896	903	978	980	983	977	981	977	980	978	978	979	978	980	979	982	984	978	975	984	980	986	980	983	983	988	983	983	984	978	
JMHE	U002	923	917	851	849	800	783	778	780	777	780	781	778	782	781	780	778	786	900	899	900	982	980	979	980	982	974	979	979	977	979	980	980	980	986	985	975	976	982	982	982	977	980	982	980	982	981	981	980	
JMJG	U001	596	596	599	599	545	503	486	442	447	450	447	447	447	497	541	580	632	677	675	671	671	670	669	674	671	671	677	671	673	674	673	672	672	672	673	672	678	669	672	672	669	677	672	675	669	677	676	677	
JMJG	U002	450	449	447	455	443	385	324	307	307	280	279	279	278	279	279	282	281	277	281	281	282	279	280	279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	200		
JMJG	U003	597	596	596	598	548	505	450	458	459	457	456	456	456	492	542	582	634	671	669	668	668	667	666	669	666	668	667	676	670	668	669	665	670	666	667	671	668	665	663	668	668	670	664	671	664	666	666	666	
JMJG	U004	922	923	873	854	824	782	783	785	785	785	785	787	783	785	785	785	786	855	903	903	959	981	978	977	977	979	977	977	976	977	974	978	979	980	979	982	977	977	980	978	980	979	981	979	980	980	981	980	
JMJG	U005	887	889	848	847	800	796	800	799	805	801	801	798	801	800	801	801	801	878	887	888	887	892	892	887	892	890	889	892	889	888	890	888	890	891	892	889	891	892	888	892	888	894	889	891	891	890	891	889	
PKLG	U005	269	269	270	269	271	268	269	270	269	269	267	269	269	267	271	270	269	269	269	268	269	271	267	269	269	286	380	451	469	468	465	463	471	468	470	472	408	330	262	270	267	267	268	268	273	271	269	267	
PKLG	U006	447	383	310	286	279	278	270	276	281	277	280	277	278	278	278	280	303	383	431	447	449	450	449	449	446	446	448	450	450	446	446	447	448	449	447	446	446	444	445	444	450	450	448	448	447	449	449		
TBIN	U001	302	299	301	300	301	301	301	301	301	301	300	301	301	301	301	301	300	404	446	497	498	549	566	599	599	594	599	599	598	598	638	687	690	689	690	687	597	499	500	604	690	650	622	547	551	502	500	402	
TBIN	U002	301	304	302	304	306	301	303	303	303	304	304	306	302	304	303	303	304	407	450	505	501	558	582	603	605	601	603	603	603	602	625	690	692	690	690	690	690	600	504	503	608	696	659	631	550	553	502	502	401
TBIN	U004	924	923	853	853	854	851	853	854	853	853	853	853	853	853	852	853	855	852	853	903	968	983	982	983	983	979	983	982	982	982	983	981	983	983	983	983	983	982	982	982	982	985	983	983	981	981	979	983	
Total ST-Coal		8298	8042	7710	7672	7374	7140	6996	6960	6970	6946	6939	6932	6936	7028	7124	7200	7339	8297	8677	9045	9320	9627	9677	9741	9740	9449	9571	9646	9653	9645	9711	9818	9838	9845	9850	9833	9501	9035	8962	9391	9620	9500	9432	9185	9178	8985	9050	8880	
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	
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	
CBPS	BLK2	348	351	358	361	362	363	368	361	369	348	311	321	361	293	299	322	362	361	354	354	357	357	363	365	357	367	362	362	367	360	360	361	360	362	346	356	358	361	360	365	354	361	360	362	358	365	359	361	
EMPP	BLK1	741	736	764	764	763	764	762	709	414	679	767	762	766	765	762	755	766	760	750	753	750	746	756	754	750	754	754	752	753	754	758	762	756	759	754	295	505	712	757	761	765	762	763	760	762	761	754	762	
EMPP	BLK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138	196	195	196	195	196	195	195	195	195	195	195	195	
GLGR	GT01	94	95	95	95	96	96	94	95	95	96	95	94	96	96	96	95	96	97	95	95	95	95	95	97	95	96	97	95	96	94	96	97	95	97	94	95	95	90	101	99	100	100	101	68	68	70	96		
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	35	35	37	37	37	75	90	100	99	100	100	100	100	67	67	68	0		
GLGR	ST1C	40	40	41	41	41	41	41	41	41	41	41	41	41	40	41	41	41	41	41	40	40	41	40	41	41	41	41	42	42	41	41	39	41	41	41	41	41	40	75	91	91	92	92	92	77	72	72	42	
NPRI	BLK1	493	494	509	511	511	514	512	511	515	512	511	506	513	509	511	502	512	511	497	505	504	500	512	511	506	509	510	511	512	511	509	512	511	510	489	500	500	511	511	514	496	511	511	517	507	521	506	511	
NPRI	BLK2	475	532	535	251	540	540	541	541	520	517	515	510	517	514	513	505	515	512	500	505	507	527	531	527	526	518	518	520	518	519	518	520	518	518	496	507	507	519	517	521	504	518	518	526	517	529	514	518	
PCGP	PGRG	583	580	602	604	604	604	606	604	608	605	603	597	605	600	605	591	604	603	586	595	597	593	602	603	598	603	604	602	605	604	602	604	603	602	570	589	588	603	602	606	584	604	603	609	599	616	595	601	
PGLA	GT11	221	222	226	224	161	158	162	161	163	162	162	159	162	161	161	158	233	231	226	228	228	223	227	226	226	226	225	225	226	230	233	231	232	215	227	157	161	230	231	227	231	232	231	234	233	233	233		
PGLA	ST10	109	109	111	112	88	88	88	88	88	88	88	88	88	87	87	115	112	115	113	116	115	116	116	115	115	116	116	116	117	115	115	115	111	114	88	88	105	116	116	114	116	116	116	117	116	117			
PLPS	GT11	143	146	146	146	147	146	147	147	146	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	0	0	0	0	0	0			
PLPS	ST18	59	59	58	59	58	59	59	58	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
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	0	0	0	33	29	70	133	215	337	333	335	336	248	247	248	337	336	337	337	339	338	336	337	218
SPGP	BLK2	724	724	727	726	724	725	726	726	726	725																																							

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	HY01	35	35	35	35	36	36	36	36	36	36	36	36	35	35	35	35	35	35	35	35	35	35	35	35
KNRG	HY02	36	36	36	36	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36	36	36	24	36
KNYR	HY01	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	50	95	95	95	95	95	95
KNYR	HY02	96	96	97	97	96	96	96	96	96	97	97	96	96	96	96	96	96	63	96	96	96	96	97	96
KNYR	HY03	95	55	59	67	68	91	96	87	96	91	66	66	96	65	65	96	96	96	96	96	96	96	96	96
KNYR	HY04	96	55	60	98	98	98	98	98	98	98	98	98	98	97	98	98	98	98	98	97	97	58	98	97
LPIA	HY01	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	25	25	25	25	25	25	16	11	6
LPIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13	27
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	19	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	18	-1	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	0	0	0	0
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
SIHY	HY01	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	48	48	31	31	0	0
SIHY	HY02	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	30	30	30	0	0
SIHY	HY03	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	50	50	30	30	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	0	0	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	0	0	0	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	82	82	81	33	34	34	82	81	82	26	82
TMGR	HY02	41	42	43	47	54	79	86	76	88	79	45	55	89	43	44	44	48	45	44	43	45	43	51	48
TMGR	HY03	27	-1	-1	-1	-1	-1	-1	84	-1	-1	-1	-1	30	41	38	42	43	40	51	44	41	66	45	77
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	-1	-1	-1	-1	147	148	147	93	92	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	95	95	95	90	-1	-1	-1	-1	-1	95	95	151	151	95	95	95	-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		727	640	539	588	539	586	599	579	781	673	613	639	591	513	516	545	592	619	817	772	794	770	741	827
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	1	2	5	7	21	13	25	21	26	27	27
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	10	19	23	29	31	31	24	27	31
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	11	19	22	26	29	32	32	15	29
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	15	24	27	31	37	20	40	35
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	12	16	27	34	34	28	26	44
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	19	19	18	17	27	19	10	11
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	17	25	30	35	32	46	49	50
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	15	27	31	36	41	44	45	17
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	12	24	28	34	38	42	41	29
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	13	16	20	24	27	30	27	30	24
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	22	13	22	22	48	50	39	38	19
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	14	15	20	24	30	34	51	51	36
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	13	23	28	32	36	35	34	34
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	6	6	5	4	5	8	11	21
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	9	8	10	10	11	14	20	22
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	10	58	126	188	270	342	382	447	473	484	419
PCUF	CUFG	29	28	29	27	30	27	29	29	29	30	29	27	29	28	28	28	29	28	28	28	29	28	28	28
PCUF	CUFK	26	25	27	26	26	27	24	27	24	26	27	25	27	26	26	26	28	25	25	26	26	25	26	25
Total Co-Gen		55	53	56	53	56	54	53	56	53	56	56	52	56	54	54	54	56	58	53	55	56	53	55	53
Total Gen		13794	13507	13156	12886	12668	12480	12257	12138	12077	11982	11823	11829	11864	11994	12106	12197	12623	13660	14305	14734	15108	15433	15566	
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

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																										
TIE-HVDC		-30	-27	-30	-29	-29	-27	-30	-29	-30	-29	-28	-30	-28	-30	-29	-30	-29	-30	-30	-29	-30	-30	-28	-30	-30	-29																								
TIE-PLTG		60	61	19	55	53	24	36	-2	17	41	34	93	0	22	75	68	4	16	43	49	109	69	16	-6	7	30	54	64	90	74	84	77	63	18	-20	55	111	30	96	17	63	47	66	-48	30	-18	27	7		
Interconnection		30	33	-11	27	24	-4	6	-31	-13	12	6	63	-28	-8	44	38	-26	-13	14	19	79	39	-14	-36	-23	0	25	36	62	46	55	48	34	-12	-50	27	83	0	66	-13	33	17	36	-77	-1	-49	-3	-22		
System Total		13771	13481	13174	12866	12651	12491	12258	12176	12097	11977	11824	11773	11899	12009	12069	12166	12656	13680	14298	14722	15036	15401	15587	15778	15625	15670	15602	15979	16103	16362	16412	16457	16358	16352	15760	15356	14914	14736	14797	15718	15749	15559	15552	15442	15202	15196	15074	14762		
SRev ST-Coal		785	844	950	949	1005	1063	1124	1038	1032	1063	1064	1064	1064	1021	1019	1018	994	831	797	780	508	362	350	341	345	344	322	287	279	286	275	173	153	146	141	158	416	455	460	403	219	339	399	436	454	446	531	450		
SRev CCGT-Gas		234	170	120	162	271	271	360	373	348	502	542	546	475	356	340	357	178	190	169	152	144	135	100	103	129	122	122	445	439	404	433	306	194	193	302	237	417	417	263	106	181	121	119	95	206	162	215	282		
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	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	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	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	0
Syncon		738	674	825	825	825	825	825	551	638	638	487	825	825	825	825	738	738	464	651	500	651	651	464	651	338	464	277	151	151	151	0	277	277	651	651	651	738	738	464	464	500	651	651	651	651	485	738			
Hydro		203	354	154	105	90	43	30	50	122	143	203	328	38	116	113	84	124	121	247	145	274	147	176	277	211	113	238	217	360	288	397	760	559	474	557	330	219	150	160	174	377	388	158	157	203	127	376	98		
S.Reserve Total		1960	2042	2049	2041	2191	2202	2339	2286	2053	2346	2447	2425	2402	2318	2297	2284	2034	1880	1677	1728	1426	1295	1277	1185	1336	917	1146	1226	1229	1238	1288	1270	1293	1117	1678	1403	1730	1787	1648	1174	1241	1348	1327	1339	1514	1386	1607	1568		