

Daily System Generation Summary on Monday

Monday, June 28, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,286 MW
Distillate	0 MW
Total TNB	2,286 MW
Total IPP	16,629 MW
Total Co-Gen	0 MW
Total System	22,769 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,318	4.16 %
Gas	72,688	22.72 %
Total TNB	86,006	26.88 %
ST-Coal	172,364	53.87 %
LSS	3,149	0.98 %
Gas	58,626	18.32 %
Total IPP	234,139	73.17 %
Co-Gen	157	0.05 %
Total Co-Gen	157	0.05 %
Total Generation	320,302	100.10 %
PLTG	-310	-0.10 %
HVDC	635	0.20 %
Interconnection	325	0.10 %
Net Energy	319,977	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:	16:00:00 Hour
Total Set On Bus	16,029 MW
TNB Generation	4,223 MW
IPP Generation	10,555 MW
Spinning Reserve	1,246 MW
Maximum Demand	14,764 MW
Net Energy	319,977 MWH
Load Factor	90.30 %

Fuel Cost

Total Cost:	45,095,850.86 RM
Cost per Unit	14.07 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	304
Hydro	315
Syncon	594
Thermal	298
Total	1,511

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	218
Total TNB	269
CBPS	55
NPRI	163
PLPS	45
YPKA	58
Total IPP	321
Total Gas	590
Total Gas Required	590

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	13247	12671	12242	11782	11528	11314	11299	11349	11682	12880	13500	13853	13960	14032	14448	14691	14764	14506	13752	13767	14740	14687	14490	14290

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 5, 2021 5:42:34 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	U002	694	602	552	554	504	394	355	355	353	353	353	355	355	354	354	354	353	405	522	608	604	697	697	699	698	693	698	695	695	691	696	694	696	695	691	695	696	696	696	697	694	693	694	699				
JMHE	U001	848	855	781	779	781	784	781	781	780	781	781	782	779	782	781	780	781	781	780	781	780	904	900	900	900	900	902	900	947	959	963	961	960	957	958	959	958	957	960	957	960	959	959	963	962	963	900	900
JMHE	U002	849	852	781	780	780	783	781	782	776	782	781	778	780	782	782	782	783	779	779	781	778	906	901	901	900	899	902	901	941	957	958	962	960	962	960	962	960	962	960	961	963	961	958	957	963	963	899	904
JMJG	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	212	272	378			
JMJG	U002	673	667	673	677	669	668	675	660	590	596	552	506	508	508	508	509	517	653	672	668	672	677	673	673	673	668	671	674	677	671	674	673	667	678	672	674	673	674	673	673	671	678	672	677	667	681	671	
JMJG	U003	596	594	592	594	593	596	592	593	592	594	592	596	593	593	626	641	672	671	666	670	668	669	664	672	668	667	672	669	666	662	679	662	667	660	666	666	663	662	667	666	662	590	596	593	595	592	593	591
JMJG	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	78		
JMJG	U005	848	848	812	799	801	801	798	801	797	799	803	801	798	800	799	801	801	800	799	800	799	831	876	890	892	889	892	889	891	888	891	890	892	888	891	889	888	891	892	887	890	889	888	892	892	891	890	892
PKLG	U003	152	152	153	152	152	151	153	153	153	153	153	153	154	153	152	152	153	153	152	206	267	283	281	281	281	280	281	282	281	282	282	284	281	281	279	280	282	281	282	281	281	276	277	277	279	280	279	279
PKLG	U006	372	289	275	280	279	276	279	278	278	280	277	278	277	280	280	280	278	279	276	332	420	449	449	448	445	449	448	449	450	449	449	450	451	450	449	450	449	444	449	443	447	447	481	450	445	450		
TBIN	U001	690	649	598	581	550	448	373	351	350																																							

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					
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	-1	-1	-1	-1	-1	-1	-1	0	0	0	0					
KNRG	HY01	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	37	36	36	36	36	36	22	0	0	0	23	36	36	36	36	36	36	36	36	36	36	36	
KNRG	HY02	38	38	38	38	39	39	23	23	23	23	23	24	24	24	23	24	39	39	39	39	21	0	0	0	0	0	0	0	37	37	37	37	37	24	0	0	0	25	37	37	37	37	37	37	37	37	37	37	37		
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	23	37	37	37	37	37	37	36	36	36	36	36	36	22	22	22	23	22	36	36	36	36	36	36	36	36	36	36			
KNYR	HY01	91	97	99	99	90	87	92	88	88	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	-1	-1	-1	-1	62	59	99	99	99	99	99	81	83	82	79	-1	-1	-1	58	80	80	81	79	75	76	77	-1				
KNYR	HY02	98	98	101	101	98	96	96	96	96	0	0	0	0	0	0	0	0	0	0	0	60	87	64	101	96	78	100	91	100	100	100	100	100	100	65	66	61	58	59	59	68	64	61	60	55	56	58	55			
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	59	100	100	100	100	100	100	100	100	99	61	57	58	58	100	100	100	98	94	95	96	49					
KNYR	HY04	92	98	97	97	94	92	92	93	93	92	89	89	57	59	61	62	71	61	88	72	61	57	60	77	62	101	94	83	98	89	96	97	97	98	68	70	65	62	62	61	67	65	67	63	58	59	59	60			
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	17	17	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	18	18	18	18	18	18				
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	20	21	21	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	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	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	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	0	0	0	
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	0	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	30	30	30	30	30	30	30	30	30	50	50	50	50	50	50	50	50	30	30	30	30	30	30	30	30	30	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	0	0	0	0	0	17	25	25	25	25	25	25	25	25	0	0	0	0	0	16	16	16	16	16	16	0	0			
SYPS	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	17	25	25	25	25	25	25	25	25	16	16	16	16	16	16	16	16	16	16	16	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	0	0	0	0	0	0	0	25	25	25	22	25	25	0	0	0	0	0	0	0	16	16	16	16	16	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	0	0	0	0	0	0	0	25	25	25	25	25	25	16	16	16	16	16	16	16	16	16	0	0	0					
TMGR	HY02	42	44	86	44	42	44	44	43	42	44	42	43	44	44	45	43	58	44	73	54	44	43	44	70	44	88	76	44	57	73	46	88	84	85	48	50	44	43	44	44	50	49	44	44	39	44	44	42			
TMGR	HY03	-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	32	32	79	32	79	80	80	40	32	32	31	32	32	32	33	32	27	0	0	0					
TMGR	HY04	-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	41	54	70	44	84	42	42	41	42	-1	-1	33	33	33	32	27	32	33	-1					
UJLI	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	95	97	95	128	125	-1	-1	-1	-1	-1	92	92	92	88	17	-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	-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				
UPIA	HY01	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	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	5	5	5	5	5	5			
UPIA	HY02	5	4	4	5	4	5	5	4	5	5	5	5	5	5	5	4	4	4	5	5	4	4	4	4	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		497	509	556	467	449	445	434	428	427	245	240	241	213	215	237	214	240	273	317	283	342	257	323	395	375	507	559	738	818	973	1032	1164	1119	1159	1052	699	453	441	446	608	903	934	907	895	791	615	557	393			
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	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	1	2	7	10	13	13	16	23	23	24	18	25	12	26	11	8	10	12	2	2	5	4	0	3	1	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	2	6	11	16	20	24	30	19	31	31	21	19	30	31	27	21	26	24	17	7	11	8	3	1	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	3	6	10	16	21	24	26	29	23	24	7	32	7	32	32	10	4	3	4	5	6	3	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	2	9	12	19	23	33	35	36	43	7	10	41	41	41	12	35	30	28	12	11	7	3	2	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	1	2	6	13	16	20	23	26	27	31	25	15	30	40	14	18	9	31	24	19	13	4	1	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	1	0	0	0	0	0	0	0	0	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	1	3	8	15	22	21	20	37	20	30	50	10	50	44	45	47	43	34	34	29	27	4	3	1	0	0	0	0	0	0	0	0	0	0	0	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	16	21	27	12	33	38	41	9	29	22	47	40	50	31	23	10	12	7	19	15	6													

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		5	7	7	7	7	8	6	8	6	5	6	6	10	8	3	6	6	8	5	5	4	4	7	7	8	5	9	7	4	5	8	7	5	7	7	5	6	5	9	9	6	7	9	6	5	6	9	10	
Total Gen		13230	12935	12630	12471	12276	11981	11793	11650	11536	11435	11367	11284	11300	11402	11361	11343	11668	12396	12879	13264	13527	13664	13868	13965	13934	13984	14001	14331	14467	14644	14701	14751	14783	14768	14574	14139	13843	13681	13773	14448	14752	14684	14685	14638	14509	14594	14300	14169	
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		-28	-28	-23	30	29	29	31	31	29	29	30	30	30	30	30	29	29	30	30	30	30	30	31	30	30	30	30	29	29	31	31	31	31	30	30	30	30	31	31	30	30	29	29	29	29	31			
TIE-PLTG		15	-17	-14	-46	9	-17	-17	-34	-19	5	26	-30	-26	-39	-15	-19	-40	-31	-27	-47	1	-33	-12	-53	-53	-44	-57	16	-7	-7	-17	-33	-9	22	41	28	63	59	-21	-10	-16	-51	-29	12	-7	10	-16	-16	
Interconnection		-14	-46	-37	-16	38	12	14	-4	11	35	56	-1	4	-9	15	12	-11	-2	3	-17	31	-3	18	-23	-23	-15	-27	46	23	22	13	-2	22	53	71	58	94	89	9	21	15	-21	2	42	23	39	13	15	
System Total		13247	12985	12671	12491	12242	11972	11782	11657	11528	11403	11314	11288	11299	11414	11349	11334	11682	12402	12880	13285	13500	13670	13853	13991	13960	14003	14032	14289	14448	14625	14691	14756	14764	14718	14506	14084	13752	13595	13767	14430	14740	14709	14687	14600	14490	14558	14290	14157	
SRev ST-Coal		457	615	682	696	700	698	692	708	751	746	747	744	747	748	766	749	757	724	714	670	590	396	367	344	355	367	345	351	254	193	155	173	175	180	185	172	187	182	172	184	179	250	164	156	180	296	410	381	
SRev CCGT-Gas		201	254	275	295	353	333	314	407	432	476	497	530	492	448	534	559	340	126	121	103	109	461	448	441	445	466	452	448	456	468	459	452	379	367	370	461	487	752	649	113	104	108	103	143	243	117	153	201	
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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		926	926	926	926	926	926	926	926	1027	1027	1027	926	926	775	926	926	926	926	926	926	926	674	775	775	775	775	825	825	651	651	651	464	464	464	464	464	651	839	839	839	651	464	313	464	464	338	525	651	839
Hydro		105	92	45	94	112	117	128	134	135	116	121	120	149	147	276	148	122	138	94	128	321	306	340	268	308	105	153	288	208	128	296	164	233	193	300	416	346	358	353	507	474	618	494	506	611	317	274	250	
S.Reserve Total		1689	1887	1928	2011	2091	2074	2060	2175	2244	2365	2392	2421	2314	2269	2351	2382	2145	1914	1855	1827	1694	1938	1930	1828	1883	1763	1775	1738	1569	1440	1374	1253	1251	1204	1319	1700	1859	2131	2013	1455	1221	1289	1225	1269	1372	1255	1488	1671	