

Daily System Generation Summary on Monday

Monday, June 29, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,262 MW
Distillate	0 MW
Total TNB	2,262 MW
Total IPP	17,151 MW
Total Co-Gen	0 MW
Total System	22,236 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,616	4.33 %
Gas	35,981	9.97 %
Total TNB	51,597	14.29 %
ST-Coal	227,411	62.98 %
LSS	2,016	0.56 %
Gas	80,843	22.39 %
Total IPP	310,270	85.93 %
Co-Gen	325	0.09 %
Total Co-Gen	325	0.09 %
Total Generation	362,192	100.31 %
PLTG	500	0.14 %
HVDC	629	0.17 %
Interconnection	1,129	0.31 %
Net Energy	361,063	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	18,437 MW
TNB Generation	3,012 MW
IPP Generation	14,204 MW
Spinning Reserve	1,183 MW
Maximum Demand	17,269 MW
Net Energy	361,063 MWH
Load Factor	87.12 %

Fuel Cost

Total Cost:	57,344,743.58 RM
Cost per Unit	15.83 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	374
Hydro	395
Syncon	616
Thermal	157
Total	1,542

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	205
Total TNB	255
CBPS	53
KLPP	83
NPRI	149
PGLA	59
SGB3	59
SKSP	28
YPKA	59
Total IPP	491
Total Gas	745
Total Gas Required	745

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	14301	13554	13095	12725	12399	12265	12384	12581	13267	15205	16145	16743	16643	16420	16936	17253	17269	16642	15525	15335	16202	16164	15702	15533

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 07, 2020 2:28:08 PM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

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	690	690	693	693	692	692	692	692	691	693	693	692	692	692	693	693	692	692	693	692	690	689	692	691	690	691	693	691	692	
JMAH	U002	695	694	694	696	695	694	694	695	696	694	694	694	696	696	695	693	695	696	693	693	697	693	695	697	694	694	694	692	695	
JMHE	U001	950	914	780	782	782	781	781	780	781	779	779	780	780	785	782	905	980	980	982	982	980	980	983	975	976	981	983	983	980	979
JMHE	U002	950	952	777	780	782	781	781	781	782	781	778	781	780	783	783	903	957	981	982	984	982	980	978	980	979	982	983	979	986	981
JMIG	U001	669	674	676	677	673	671	674	673	675	674	674	673	672	672	671	669	666	677	679	669	673	675	671	671	672	668	675	672	678	672
JMIG	U002	682	669	677	673	672	675	671	672	676	674	672	675	673	670	671	675	671	673	675	669	669	674	677	672	673	676	671	673	675	671
JMIG	U003	663	669	666	666	667	666	668	667	666	663	671	667	668	665	662	667	666	672	658	662	662	660	662	653	651	659	662	662	663	662
PKLG	U003	284	282	282	284	281	279	280	281	279	282	282	281	281	280	281	280	280	278	280	280	281	281	278	279	279	281	282	281	281	206
PKLG	U004	281	283	281	282	280	281	279	278	280	276	278	317	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	U005	468	467	467	467	469	468	466	466	468	468	465	467	468	466	466	466	468	466	466	468	469	466	467	466	467	466	466	467	466	466
PKLG	U006	450	446	451	447	444	447	450	446	449	449	449	448	449	450	449	450	449	447	447	447	448	448	445	449	447	447	447	449	447	450
TBIN	U001	691	696	690	690	688	688	691	689	692	692	692	690	688	692	690	690	690	692	695	690	691	692	692	689	692	691	693	691	689	689
TBIN	U002	694	694	692	693	692	694	694	693	695	695	694	692	691	694	693	692	693	691	692	692	693	694	693	692	692	693	693	689	693	691
TBIN	U003	690	690	691	500	651	692	693	690	694	693	693	693	693	694	692	693	692	692	693	692	692	693	693	691	690	690	692	691	691	690
TBIN	U004	952	928	843	783	782	781	782	783	783	782	783	783	782	783	783	845	941	982	982	983	981	982	983	982	983	982	983	984	980	980
Total ST-Coal		9809	9748	9360	9113	9250	9290	9296	9286	9307	9295	9297	9334	9012	9004	9002	9019	9019	9319	9552	9614	9601	9615	9610	9608	9604	9591	9588	9616	9603	9601
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
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
CBPS	BLK2	368	363	363	368	367	365	365	368	225	225	221	218	224	229	229	274	364	360	360	360	356	358	357	361	354	361	354	362	361	360
GLGR	GT01	106	105	84	105	97	67	68	68	67	69	68	67	69	67	68	68	69	102	105	106	105	105	104	104	104	95	91	93	104	91
GLGR	GT02	105	105	85	105	96	67	68	69	68	69	67	68	68	68	69	68	68	102	105	104	105	105	105	104	105	94	90	94	106	92
GLGR	ST1C	91	92	81	91	90	71	71	70	70	70	70	71	71	70	71	70	86	92	92	92	92	92	89	86	87	90	83	85	84	90
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	62	132	132	135	115	125	118	135	135	133	137	136
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	150	149	149	150	151	153	145	129	136	130	152	149	144	
KLPP	GT15	154	154	156	156	153	132	134	130	131	132	131	132	133	136	136	148	153	154	150	149	154	154	154	146	133	137	133	154	150	
KLPP	ST17	53	53	55	57	53	49	50	50	50	51	49	53	52	57	41	133	129	129	120	196	200	196	188	193	193	196	196	193	200	196
NPRI	BLK1	524	524	521	526	524	518	485	411	357	369	376	370	526	523	529	527	521	514	518	514	515	512	515	518	506	515	502	521	515	
NPRI	BLK2	529	526	525	529	529	527	528	527	524	448	396	317	319	320	334	523	525	518	521	516	512	515	518	521	509	517	505	519	520	
PCGP	PGRG	301	215	214	216	216	211	214	215	214	215	215	216	214	216	217	230	413	573	556	553	564	552	552	556	545	546	536	561	554	
PGLA	GT12	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	232	232	232	232	232	232	232	232	232	232	232	232	232	
PGLA	ST10	112	111	111	112	109	88	88	89	89	89	89	89	89	89	89	89	89	89	114	114	113	113	114	114	114	114	114	113	113	
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	137	134	138	136	128	105	126	104	137	137	127	136	122	
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	141	132	107	131	110	140	141	130	
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	21	32	32	42	41	85	142	142	142	142	130	106	141	138	127	139	124		
SGB3	ST34	0	0	0	0	0	0	0	0	0	0	0	0	0	19	20	35	71	135	141	151	217	196	204	197	218	218	201	217		
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	19	12	25	0	0	0	0	0	22	137	159	348	217	322	343	276	344	
SPGP	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	0	
TJGS	GT1A	176	151	192	199	158	195	139	146	141	138	146	146	182	220	231	181	154	188	229	204	194	222	197	221	218	223	220	226	225	
TJGS	GT1B	170	143	183	189	144	186	132	135	135	131	140	136	165	210	214	168	142	178	214	195	184	213	186	214	207	215	212	216	214	
TJGS	ST1C	213	184	214	239	178	196	184	181	178	178	178	178	192	212	222	197	196	208	223	232	246	225	232	245	245	245	245	248	248	
TJGS	GT2A	215	214	214	214	214	186	143	146	145	148	145	148	148	148	147	147	214	213	213	213	213	213	213	213	213	213				

2 of 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																									
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	17	18	16	36	30	33	39	40	47	53	55	45	44	44	17	12	9	8	4	2	1	0	0	0	0	0	0	0	0	0			
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	14	19	23	29	30	29	26	24	24	23	25	23	22	9	17	13	8	11	7	6	3	0	0	0	0	0	0	0	0	0			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	7	37	75	105	149	191	233	263	277	326	296	293	300	288	274	237	221	130	100	81	70	48	27	7	1	1	1	0	0	0	0	0	0			
PCUF	CUFG	7	8	7	7	8	7	8	7	7	9	5	6	7	6	7	7	7	8	6	9	7	8	7	7	8	10	7	7	8	6	35	35	34	35	35	11	8	7	8	7	7	9	9	7	7	8	9	8	
PCUF	CUFK	4	4	3	3	4	3	5	1	3	6	1	1	2	1	2	3	3	4	3	3	4	3	5	2	3	5	2	4	2	3	3	4	4	4	3	2	3	2	4	3	3	6	4	2	3	5	3	4	
Total Co-Gen		11	12	10	10	12	10	13	8	10	15	6	7	9	7	9	10	10	12	9	12	11	11	12	9	11	15	9	11	10	9	38	39	38	39	38	13	11	9	12	10	10	15	13	9	10	13	12	12	
Total Gen		14272	13904	13516	13384	13136	13009	12749	12665	12476	12408	12372	12378	12462	12700	12632	12835	13291	14672	15224	15807	16162	16474	16755	16829	16765	16530	16468	16684	16930	17304	17292	17249	17254	17090	16719	16136	15608	15327	15374	16091	16286	16297	16222	16029	15764	15715	15588	15294	
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	30	30	30	30	30	30	30	30	30	30	31	31	30	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	29	29	30	30			
TIE-PLTG		4	-46	-6	15	15	11	-2	7	51	-7	82	103	52	127	24	-3	-2	114	-7	-17	-8	-7	-13	28	96	-5	22	-49	-32	34	13	52	-41	-68	51	9	57	64	13	29	59	-3	32	66	37	-17	29	38	
Interconnection		-25	-76	-34	45	45	40	28	37	81	23	111	133	82	156	55	28	28	144	23	13	21	22	16	57	126	25	52	-18	-2	64	43	82	-11	-39	81	39	87	94	43	59	88	26	62	95	66	12	59	69	
System Total		14301	13984	13554	13343	13095	12973	12725	12632	12399	12389	12265	12249	12384	12548	12581	12811	13267	14532	15205	15798	16145	16456	16743	16776	16643	16509	16420	16706	16936	17244	17253	17171	17269	17133	16642	16101	15525	15237	15335	16036	16202	16275	16164	15938	15702	15707	15533	15229	
SRev ST-Coal		236	297	389	449	441	398	393	403	381	392	388	388	392	391	402	388	389	386	209	147	160	146	151	153	157	170	173	145	158	160	149	179	179	144	144	149	156	152	147	161	164	150	143	155	143	170	159	177	
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		529	705	647	539	718	837	1085	1154	1366	1427	1584	1761	1480	1695	1656	1634	1326	499	504	385	420	360	238	263	460	375	518	307	251	272	166	252	160	127	300	568	1035	1267	1220	663	526	530	558	674	675	606	738	1017	
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		61	60	62	62	60	62	59	64	62	57	66	65	63	65	63	62	62	60	63	60	61	61	60	63	61	57	63	61	62	63	34	33	34	33	34	59	61	63	60	62	62	57	59	63	62	59	60	60	
Syncon		1127	976	1127	1127	1228	1178	1329	1329	1329	1329	1329	1329	1077	1127	1228	1178	1228	1001	850	814	453	640	640	640	640	827	827	802	676	302	343	302	302	338	489	889	1040	1040	1040	1040	914	889	889	889	889	738	738	738	
Hydro		205	288	193	186	193	289	159	159	159	159	161	159	288	125	131	297	212	211	338	222	318	188	220	281	385	329	336	393	303	363	593	498	490	533	560	284	163	106	101	206	271	300	303	264	268	240	245	242	
S.Reserve Total		2158	2326	2418	2363	2640	2764	3025	3109	3297	3364	3528	3702	3300	3403	3480	3559	3217	2171	1978	1642	1426	1409	1323	1414	1717	1772	1931	1722	1464	1174	1299	1278	1179	1189	1541	1963	2469	2729	2662	2219	2024	2013	2039	2132	2124	1900	2027	2321	