

Daily System Generation Summary on Monday

Monday, June 22, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,339 MW
Distillate	0 MW
Total TNB	2,339 MW
Total IPP	16,899 MW
Total Co-Gen	0 MW
Total System	22,061 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,938	4.56 %
Gas	35,885	10.26 %
Total TNB	51,823	14.82 %
ST-Coal	199,421	57.02 %
LSS	2,099	0.60 %
Gas	95,224	27.23 %
Total IPP	296,744	84.85 %
Co-Gen	167	0.05 %
Total Co-Gen	167	0.05 %
Total Generation	348,734	99.72 %
PLTG	-291	-0.08 %
HVDC	-693	-0.20 %
Interconnection	-984	-0.28 %
Net Energy	349,718	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	18,018 MW
TNB Generation	2,676 MW
IPP Generation	13,887 MW
Spinning Reserve	1,446 MW
Maximum Demand	16,663 MW
Net Energy	349,718 MWH
Load Factor	87.45 %

Fuel Cost

Total Cost:	57,776,855.47 RM
Cost per Unit	16.57 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	556
Hydro	367
Syncon	691
Thermal	152
Total	1,766

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	204
Total TNB	254
CBPS	53
KLPP	94
MPSS	19
NPRI	85
PGLA	57
PLPS	109
SGRI	96
SKSP	56
YPKA	44
Total IPP	614
Total Gas	868
Total Gas Required	868

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	13871	13184	12603	12208	11962	11791	11859	12196	12870	14637	15451	16029	16072	15819	16327	16570	16663	16227	15095	14976	15991	15852	15435	15287

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 07, 2020 2:16:10 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	692	689	692	693	692	692	693	692	692	692	692	691	693	692	693	692	693	692	691	692	692	692	690	699	
JMAH	U002	697	684	695	698	687	692	688	692	688	688	692	689	694	693	693	692	695	695	693	695	693	694	693	689	
JMHE	U001	920	920	918	921	924	923	783	778	782	780	780	783	775	780	774	780	781	915	981	981	981	976	977	980	
JMHE	U002	0	0	70	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JMIG	U001	673	676	675	670	671	673	671	673	667	653	672	671	673	672	670	671	672	675	671	671	673	674	673	676	
JMIG	U002	669	667	672	680	677	672	674	677	677	673	673	673	675	671	678	671	673	675	677	678	672	673	677	672	
JMIG	U003	665	668	667	666	660	662	666	663	664	664	662	663	663	665	662	666	662	668	663	664	663	664	663	657	
PKLG	U003	284	283	282	282	282	284	282	281	282	284	263	175	154	163	255	279	281	282	276	281	282	281	282	280	
PKLG	U004	281	274	280	279	281	278	281	274	279	280	253	163	148	151	257	280	279	279	281	280	276	278	281	280	
PKLG	U005	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	U006	449	448	449	446	449	446	447	449	447	446	446	446	449	448	447	447	452	449	448	447	449	449	449	446	
TBIN	U001	689	690	687	690	690	690	690	689	688	687	687	690	690	688	689	689	688	689	691	687	690	687	689	688	
TBIN	U002	693	691	693	692	694	692	692	694	692	691	692	693	694	693	691	695	694	696	693	692	690	693	693	691	
TBIN	U003	691	690	688	690	692	690	690	690	690	690	701	690	691	687	691	695	690	692	690	692	687	690	685	685	
TBIN	U004	923	923	924	870	782	783	783	781	782	781	783	783	783	783	784	782	782	869	956	982	983	984	982	982	
Total ST-Coal		8326	8303	8392	8396	8181	8177	8040	8035	8030	8011	7996	7811	7779	7787	7983	8039	8033	8190	8318	8423	8426	8441	8459	8439	
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	
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	
CBPS	BLK2	363	356	356	372	361	363	363	365	252	216	211	218	230	225	305	362	369	363	365	364	364	367	364	363	
GLGR	GT01	101	102	102	102	101	103	103	102	69	69	69	69	70	68	68	68	68	107	108	105	105	107	107	68	
GLGR	GT02	102	102	102	102	103	103	102	102	68	69	69	69	68	69	69	68	69	109	107	107	105	107	107	68	
GLGR	ST1C	88	87	88	88	88	88	88	88	71	70	70	70	70	70	70	70	86	93	93	94	94	93	71	69	
KLPP	GT13	136	138	43	0	0	0	0	0	0	0	0	0	0	21	55	138	138	136	136	131	133	132	136	131	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	9	43	135	153	155	156	157	157	156	157	156	
KLPP	GT15	158	158	160	155	155	156	156	156	155	131	130	135	135	130	134	134	135	135	159	159	159	158	158	159	
KLPP	ST17	129	129	105	59	54	59	62	56	56	59	50	55	55	56	59	85	128	128	187	204	204	202	200	201	
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	20	32	80	78	81	91	100	105	105	90	88	
MPSS	ST01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	37	48	44	40	39	
NPRI	BLK1	524	518	512	528	524	529	526	526	529	526	518	526	529	530	517	527	529	529	522	523	523	512	521	519	516
NPRI	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	119	119	20	20	20	
PCGP	PGRG	352	352	301	312	302	301	300	301	302	300	303	222	238	222	222	219	317	602	597	543	516	551	602	602	
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	177	192	0	0	0	0	0	0	0	0	0	0	0	0	
PGLA	GT12	256	257	181	190	185	186	184	184	186	190	186	191	197	191	186	190	191	191	259	257	256	258	256	257	
PGLA	ST10	111	112	87	88	88	89	89	88	88	88	90	89	90	89	89	90	113	111	113	113	113	113	113	113	
PLPS	GT11	134	132	132	142	134	138	134	137	137	136	110	115	120	116	110	113	115	135	131	132	143	125	129	133	
PLPS	GT12	138	137	135	146	140	141	139	142	142	141	115	119	124	119	115	117	120	139	136	134	136	147	130	136	
PLPS	GT13	134	130	127	138	131	134	131	133	132	132	108	112	117	112	107	109	112	132	128	126	138	122	126		
PLPS	ST18	210	211	209	213	209	211	211	211	211	194	198	198	197	197	198	197	206	210	210	210	212	209	206		
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	130	130		
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	133	131		
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	12	20	38	47	39	27	30	42	67	86		
SGRI	ST14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	5	30	46	52	66	64	79		
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	137	111	110	135		
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	139	138	138	115	112		
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	18	54	58	37	33	27	27	56	144	141	141	144	144		
SGRI	ST24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	68	47	133	133			
SKSP	BLK1	337	336	337	338	338	336	337	337	336	337	218	217	220	219	338	338	337	338	336	336	337	335	338		

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																								
SPGP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	73	102																						
TJGS	GT1A	197	193	174	200	190	155	152	137	148	135	129	198	233	225	148	132	206	223	181	182	209	225	222	224	223	221	223	220	219	222	225	222	224	207	155	122	163	169	223	211	225	193	203	196	227	207	188	
TJGS	GT1B	189	185	165	193	181	144	143	122	138	126	122	183	217	217	135	123	198	219	175	175	201	218	213	212	214	210	212	210	211	214	219	212	213	213	199	146	114	156	159	216	209	216	184	190	185	214	199	180
TJGS	ST1C	226	219	202	198	227	190	202	175	169	169	166	221	228	241	192	169	200	236	206	188	227	239	239	242	242	242	242	239	242	242	242	242	242	236	204	166	187	202	242	238	242	232	231	220	240	234	217	
TJGS	GT2A	215	215	215	215	214	214	147	147	146	148	148	148	150	149	147	147	157	220	219	219	219	219	217	217	217	217	217	217	217	217	217	217	217	159	148	177	214	215	215	213	215	213	214	214	214			
TJGS	GT2B	209	212	212	211	212	211	142	144	144	144	143	144	147	144	144	144	154	216	216	216	216	215	215	216	215	215	215	214	214	215	215	215	214	156	145	173	209	209	212	210	210	210	210	210	211			
TJGS	ST2C	257	257	257	257	257	257	211	211	211	211	211	211	211	211	211	211	257	257	257	259	259	259	259	259	259	259	259	259	259	259	259	259	259	242	210	213	257	257	257	257	257	257	257	257	257			
YPKA	GT11	0	0	0	0	0	0	0	12	12	58	58	70	70	134	134	136	136	131	131	130	130	130	130	130	130	130	130	130	130	130	130	125	125	93	66	67	124	124	125	123	124	99	99	100	100			
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	15	71	131	132	131	131	130	130	131	131	131	131	132	131	127	127	96	67	68	126	126	125	127	100	101	100	101					
YPKA	ST10	0	0	0	0	0	0	0	0	0	0	0	52	52	53	52	54	120	123	124	124	123	125	124	123	123	123	123	123	123	123	124	124	123	119	119	103	79	79	112	117	117	116	117	101	100	100	100	
Total CCGT-Gas		4566	4538	4202	4247	4194	4108	3922	3864	3703	3644	3594	3774	3770	3746	3824	3946	4482	5096	5403	5640	5764	6112	6239	6522	6407	6221	6214	6384	6535	6858	6846	6917	6926	6916	6701	6455	6004	5716	5797	6436	6524	6544	6333	6301	6095	6222	6090	5896
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BSIA	HY01	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	HY02	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24		
BSIA	HY03	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
CEND	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	8	8	7	7	7	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	61	124	125	125	125	125	124	124	125	125	125	124	124	125	125	125	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNRG	HY01	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KNRG	HY02	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KNRG	HY03	21	21	21	23	21	22	21	22	21	21	21	21	23	22	21	21	22	22	21	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	22	22	22	21	
KNYR	HY01	64	62	61	100	63	62	63	64	63	63	59	63	86	87	61	63	79	78	98	97	98	99	99	99	99	99	99	99	99	99	99	99	99	99	95	92	92	98	99	99	99	99	99	99	99	99	99	
KNYR	HY02	99	97	95	62	-1	-1	-1	-1	-1	-1	-1	-1	98	98	-1	-1	98	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	95	92	92	97	97	97	97	97	97	97	97	97	97	97		
KNYR	HY03	98	97	96	0	0	0	0	0	0	0	0	0	0	0	0	0	99	98	98	98	98	98	98	98	98	98	98	98	98	98	98	96	93	93	98	98	98	98	98	98	98	98	98	98	98	98	98	
KNYR	HY04	99	98	97	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	99	58	58	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	97	94	53	94	97	99	81	99	76	94	85	99	99	99	99		
LP1A	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	17	17	15	15	15	15	16	16	16	16	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	16	18	18	18	18	18	
LP1A	HY02	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	17	17	14	12	12	14	15	15	15	15	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
MNOR	HY01	6	6	6	6	3	3	3	3	3	3	3	3	3	3	3	3	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5	6	6	6	6	6	6	6	3	3		
PGAU	HY01	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	22	21	22	22	22	22	22	22	22	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	
PGAU	HY02	82	-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			
PGAU	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
SIHY	HY01	50	49	51	51	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	30	30	30	30	30	30	30	30	30	30	50	50	50	31	31	31	31	51	51	51	51	51	0	0	0	
SIHY	HY03	50	49	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	50	50	50	30	30	30	50	50	50	50	50	49	0	0	0		
SYPS	HY01	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	25	0	0	0		
SYPS	HY02	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	25	0	0	0	
SYPS	HY03	17	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
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
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
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
JSLs	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
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
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
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	3	4	5	4	3	4	4	5	2	3	4	4	5	3	3	2	4	3	3	4	3	3	5	4
PCUF	CUFK	4	4	2	3	2	3	3	3	4	2	4	3	4	2	4	1	5	5	4	3	4	4	3	4
Total Co-Gen		7	8	7	7	5	7	7	8	6	5	8	7	8	4	6	6	8	5	8	5	7	3	9	9
Total Gen		13822	13453	13197	13039	12561	12474	12151	12091	11921	11842	11772	11772	11786	11965	12209	12240	12817	13863	14545	15022	15395	15782	15963	16133
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
TIE-HVDC		-28	-28	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-30	-29	-30	-30	-30	-28	-28	-29	-29	-29
TIE-PLTG		-20	-3	42	-49	-14	7	-28	-4	-12	0	11	-17	-44	18	42	38	-24	-27	-64	-4	-27	51	-36	-7
Interconnection		-49	-31	13	-78	-42	-21	-57	-32	-41	-29	-19	-46	-73	-11	13	9	-53	-56	-92	-35	-56	20	-66	-37
System Total		13871	13484	13184	13117	12603	12495	12208	12123	11962	11871	11791	11818	11859	11976	12196	12231	12870	13919	14637	15057	15451	15762	16029	16170
SRev ST-Coal		251	274	355	371	278	283	303	306	310	329	341	360	349	355	351	301	307	269	228	154	151	136	118	138
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
SRev CCGT-Gas		474	502	838	640	693	779	965	1023	1314	1373	1623	1583	1387	1551	1756	1740	1487	873	1124	887	956	608	643	458
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
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
SRev Co-Gen		65	64	65	65	67	65	65	64	66	67	64	65	64	68	66	66	64	67	64	67	65	69	63	63
Syncon		525	915	915	1016	1205	1205	1205	1205	1205	1331	1180	978	978	1230	1230	1129	942	816	640	640	640	764	764	613
Hydro		606	221	229	148	154	153	153	151	153	161	154	256	259	291	196	181	143	223	261	344	329	331	405	405
S.Reserve Total		1921	1976	2402	2240	2397	2485	2691	2749	3048	3127	3394	3493	3236	3211	3442	3533	3269	2481	2581	2185	2156	1782	1795	1828
		1938	1985	2007	2016	1885	1590	1585	1509	1446	1457	1724	2281	2833	2957	2864	1886	1630	1528	1800	2036	2370	2179	2446	2588