

Daily System Generation Summary on Sunday

Sunday, June 28, 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	17,435 MW
Total Co-Gen	0 MW
Total System	22,520 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,169	3.19 %
Gas	33,522	10.51 %
Total TNB	43,691	13.69 %
ST-Coal	225,409	70.64 %
LSS	1,748	0.55 %
Gas	47,281	14.82 %
Total IPP	274,438	86.01 %
Co-Gen	350	0.11 %
Total Co-Gen	350	0.11 %
Total Generation	318,479	99.81 %
PLTG	84	0.03 %
HVDC	-695	-0.22 %
Interconnection	-611	-0.19 %
Net Energy	319,090	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:	20:30:00 Hour
Total Set On Bus	16,434 MW
TNB Generation	2,714 MW
IPP Generation	12,216 MW
Spinning Reserve	1,490 MW
Maximum Demand	14,992 MW
Net Energy	319,090 MWH
Load Factor	88.68 %

Fuel Cost

Total Cost:	48,930,418.56 RM
Cost per Unit	15.37 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	547
Hydro	263
Syncon	977
Thermal	351
Total	2,138

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	47
SRDG	1
TJGS	193
Total TNB	241
CBPS	49
KLPP	11
NPRI	143
PGLA	52
Total IPP	255
Total Gas	496
Total Gas Required	496

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	14333	13811	13402	12883	12526	12314	12226	11872	11319	11939	12635	13067	13123	13109	13429	13588	13695	13406	13079	13412	14953	14976	14854	14837

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 07, 2020 2:26:28 PM

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

Daily MW Generation on Sunday

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	693	692	692	691	690	692	690	692	693	648	603	694	693	692	692	690	690	692	691	693	692	693	692	694	692	694
JMAH	U002	694	694	695	694	695	693	696	696	695	694	691	696	694	695	694	695	694	693	693	692	694	695	696	694	693	694
JMHE	U001	500	740	752	783	784	778	782	779	780	779	778	778	779	776	781	783	780	781	781	781	777	780	782	779	847	851
JMHE	U002	960	958	777	780	784	779	783	779	779	782	781	778	779	777	781	782	779	781	783	782	780	778	781	777	848	854
JMJG	U001	673	677	672	673	671	673	675	677	672	673	670	672	672	670	672	665	669	668	673	672	672	668	677	671	671	676
JMJG	U002	673	672	671	673	671	675	673	672	673	669	672	675	671	673	672	673	674	676	672	667	675	676	672	674	671	676
JMJG	U003	664	662	666	664	667	664	666	666	666	665	664	661	667	664	665	666	667	666	666	667	666	666	667	666	667	668
PKLG	U003	283	281	281	282	280	279	281	281	280	281	281	282	280	278	212	149	149	151	243	281	283	281	282	281	280	282
PKLG	U004	283	284	280	281	279	281	282	276	285	283	282	281	281	277	185	150	146	148	253	283	281	282	281	280	280	282
PKLG	U005	468	467	466	465	466	467	466	466	466	468	467	466	466	459	382	316	268	269	334	404	422	472	464	468	464	466
PKLG	U006	450	448	446	451	450	449	449	447	451	450	445	450	447	449	449	449	449	446	446	449	452	449	450	448	446	449
TBIN	U001	686	691	690	687	690	688	689	695	689	692	691	688	689	689	683	689	647	690	691	690	689	690	688	689	689	691
TBIN	U002	692	691	687	692	691	692	693	692	691	693	690	689	693	689	697	692	653	696	692	694	693	692	692	690	693	694
TBIN	U003	691	690	691	699	690	689	689	691	692	690	692	692	691	691	692	691	651	691	691	692	690	692	689	692	694	693
TBIN	U004	963	963	886	799	783	781	782	782	783	782	782	782	782	782	782	782	783	783	783	783	782	783	782	781	784	786
Total ST-Coal		9373	9610	9352	9314	9291	9280	9296	9291	9295	9292	9277	9281	9281	9263	9036	8790	8519	8839	9093	9235	9241	9298	9283	9290	9291	9279
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
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
CBPS	BLK2	362	361	365	365	363	362	226	226	225	226	223	224	223	222	222	222	223	215	221	221	359	352	355	355	356	358
GLGR	GT01	104	105	105	106	104	104	105	88	68	69	69	68	68	67	68	69	66	69	69	70	68	67	68	68	69	67
GLGR	GT02	104	105	105	105	105	105	105	87	68	67	68	68	68	68	68	69	69	68	68	68	68	68	68	68	69	67
GLGR	ST1C	91	92	92	92	92	92	86	71	69	70	70	71	71	71	70	71	70	70	71	71	70	71	71	71	70	71
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	34	
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	30	
NPRI	BLK1	499	491	523	511	520	480	527	523	515	487	466	473	413	391	382	338	360	385	318	340	479	462	508	440	425	505
NPRI	BLK2	520	518	518	518	520	518	519	518	519	398	322	320	320	315	319	313	319	318	308	320	398	518	520	517	508	509
PCGP	PGRG	402	352	301	302	303	300	305	303	302	302	304	302	303	301	302	217	219	216	301	404	451	451	453	449	439	441
PGLA	GT12	227	227	227	227	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
PGLA	ST10	112	112	112	111	111	90	90	90	91	91	90	90	90	89	89	89	89	89	89	90	89	90	89	90	89	90
TJGS	GT1A	211	184	216	207	225	199	205	185	151	163	144	149	147	148	140	142	142	140	140	140	141	141	181	189	189	188
TJGS	GT1B	201	176	206	200	214	192	194	175	143	148	137	140	137	138	130	138	137	133	134	132	131	129	173	181	181	186
TJGS	ST1C	217	212	232	235	243	226	224	208	194	184	183	179	179	180	180	177	177	179	172	178	181	180	194	214	216	208
TJGS	GT2A	215	215	215	216	215	214	147	147	147	147	149	147	148	149	147	144	150	150	151	148	148	148	184	147	147	188
TJGS	GT2B	209	210	212	212	212	214	144	144	144	143	143	144	144	144	144	144	144	143	143	143	143	143	181	144	144	187
TJGS	ST2C	257	257	257	257	257	257	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211
Total CCGT-Gas		3731	3617	3686	3664	3711	3511	3254	3151	3008	2865	2740	2744	2681	2655	2636	2505	2536	2555	2546	2694	2965	3198	3338	3302	3371	3346
SRDG	GT04	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	128	0	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 OCGT-Gas		143	0	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	21	11	10	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	23	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
BSIA	HY03	22	11	11	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
CEND	HY03	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
HTRG	HY01	125	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	36	36	36	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	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

Daily MW Generation on Sunday

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	HY03	36	36	36	38	22	22	23	23	23	23	23	22	23	21	22	22	21	22	23	22	22	22	22	23	22	22	23	23	22	23	22	22	23	23	21													
KNYR	HY01	99	99	60	0	0	0	0	0	0	0	0	0	0	0	0	0	58	59	58	59	58	58	57	57	59	57	56	60	57	59	58	60	60	58	60	61	69	94	88	99	78	79	99	99	79			
KNYR	HY02	97	97	97	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	56	58	58	60	-1	-1	-1	-1	97	97	97	97	97	97	97	97	97						
KNYR	HY03	98	98	98	99	61	-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	99	98	99	98	98	98	98	98	98								
KNYR	HY04	96	96	96	97	87	60	87	76	69	96	79	83	79	62	65	58	61	59	56	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	61	61	59	61	61	74	95	85	94	83	81	99	99	78			
LPIA	HY01	15	15	15	16	15	16	15	15	15	15	15	15	15	16	15	16	16	16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15					
LPIA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12						
MNOR	HY01	5	5	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6					
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
PGAU	HY02	20	21	21	20	-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	20	21	21	21	21	21	22	22		
PGAU	HY03	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	21	-1	-1	-1	-1	-1	-1
PGAU	HY04	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0				
SIHY	HY03	31	31	50	50	49	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	30	30				
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SYPS	HY03	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
SYPS	HY04	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	61	24	-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				
TMGR	HY03	45	42	66	44	-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				
TMGR	HY04	46	43	67	45	59	42	71	33	33	33	33	33	33	33	32	33	33	30	33	33	33	33	31	31	33	32	29	33	33	32	33	33	33	33	33	33	33	33	33	-1	-1	-1	-1	-1	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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				
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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5</				

Daily MW Generation on Sunday

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																								
SRev ST-Coal		172	-65	56	9	16	25	15	15	12	14	32	24	25	41	117	203	750	485	500	439	445	390	405	401	392	408	399	397	404	397	407	396	401	412	414	398	393	409	395	338	257	251	249	240	226	236	242	241
SRev OCGT-Gas		106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		397	511	442	464	417	617	874	977	1120	1263	1388	1384	1447	1473	1492	1623	1592	1573	1582	1434	1163	930	790	826	757	782	720	556	601	557	568	530	518	532	827	959	1084	1029	898	447	273	332	271	319	364	392	325	391
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		
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		
SRev Co-Gen		61	61	63	59	62	62	61	61	60	63	61	61	61	63	63	60	65	59	61	61	59	61	63	62	63	62	62	65	63	63	61	64	60	61	61	64	62	61	62	57	66	58	64	21	20	19	21	21
Syncon		525	676	889	990	1229	1330	1330	1330	1330	1330	1179	1330	1330	1179	1330	1330	1179	1330	1330	906	1280	1280	1280	1129	1280	1280	1093	1280	1130	1129	1179	1179	1179	1078	1078	1179	1028	1179	1179	815	326	477	564	564	564	476	663	850
Hydro		535	586	306	269	148	151	94	144	153	125	275	139	143	289	157	167	291	163	169	162	160	181	178	311	182	182	180	180	186	176	178	225	220	221	255	216	353	216	218	330	492	372	312	425	421	463	378	357
S.Reserve Total		1796	1769	1756	1791	1872	2185	2374	2527	2675	2795	2935	2938	3006	3045	3184	3408	3902	3635	3667	3027	3132	2867	2716	2729	2674	2714	2454	2478	2384	2322	2393	2394	2378	2304	2635	2816	2920	2894	2752	1987	1414	1490	1460	1569	1595	1586	1629	1860