

Daily System Generation Summary on Sunday

Sunday, March 15, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,236 MW
Distillate	0 MW
Total TNB	2,236 MW
Total IPP	17,396 MW
Total Co-Gen	0 MW
Total System	22,300 MW

Generation Mix

Type	MWh	Percentage
Hydro	5,460	1.58 %
Gas	31,514	9.10 %
Total TNB	36,974	10.68 %
ST-Coal	244,692	70.65 %
LSS	2,395	0.69 %
Gas	62,413	18.02 %
Total IPP	309,500	89.36 %
Co-Gen	799	0.23 %
Total Co-Gen	799	0.23 %
Total Generation	347,273	100.27 %
PLTG	202	0.06 %
HVDC	725	0.21 %
Interconnection	927	0.27 %
Net Energy	346,346	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:	00:00:00 Hour
Total Set On Bus	17,456 MW
TNB Generation	2,036 MW
IPP Generation	14,020 MW
Spinning Reserve	1,383 MW
Maximum Demand	16,043 MW
Net Energy	346,346 MWH
Load Factor	89.95 %

Fuel Cost

Total Cost:	53,957,073.43 RM
Cost per Unit	15.54 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	532
Hydro	260
Syncon	880
Thermal	308
Total	1,980

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	192
Total TNB	221
CBPS	48
NPRI	74
PGLA	99
PLPS	61
SGRI	65
Total IPP	347
Total Gas	569
Total Gas Required	569

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	16043	15274	14720	14212	13807	13445	13303	13061	12487	12843	13545	14122	14190	14304	14714	15057	14851	14751	14269	14382	15845	16013	15751	15492

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, April 02, 2020 10:53:56 AM
(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	U002	694	694	692	690	695	693	694	694	693	696	694	695	696	694	693	694	696	698	693	696	692	695	695	694	694	694	694	694	693	695	696	694	695	692	694															
JMHE	U001	979	981	975	942	943	905	850	816	777	784	776	778	782	780	777	852	922	918	922	920	920	918	918	918	918	920	922	950	950	951	948	950	947	950	954	952	952	981	983	977	981	979	981	979	981					
JMHE	U002	981	981	978	939	942	901	849	823	779	781	777	782	781	777	776	782	782	778	779	777	923	916	921	920	920	917	918	918	921	922	950	951	950	949	947	947	951	952	953	954	983	985	979	980	982	981	980	981		
JMJG	U001	674	674	677	637	620	672	673	657	635	621	621	624	604	593	594	587	581	593	599	594	596	608	647	640	643	643	643	643	674	673	673	644	654	590	597	596	601	598	660	667	670	672	671	670	672	645	644			
JMJG	U002	677	669	672	636	621	651	672	654	644	629	612	623	618	600	596	596	600	598	600	604	600	617	651	643	646	647	649	600	600	586	585	663	646	647	648	651	649	649	647	675	673	671	672	672	673	669	652	651		
JMJG	U003	662	666	664	626	623	662	662	647	638	622	620	629	607	592	600	595	593	593	591	591	601	611	645	645	643	643	643	643	640	669	672	669	640	645	645	642	643	590	679	668	671	668	669	673	667	666	647	645		
JMJG	U004	905	904	902	901	877	791	780	782	782	782	782	783	785	783	785	785	782	783	850	848	898	898	897	898	899	900	900	897	897	895	897	899	895	897	899	895	897	896	897	896	897	899	898	899	899	897	898	899	895	
JMJG	U005	977	974	973	901	878	773	791	777	783	786	783	782	783	783	781	782	780	778	781	850	856	921	922	920	920	920	920	920	919	944	949	948	948	949	951	946	953	952	953	982	977	978	981	979	976	972	898			
PKLG	U003	281	284	283	284	283	284	280	283	283	282	282	281	280	283	283	266	207	207	277	281	282	281	282	282	282	280	281	280	278	281	278	279	282	281	281	282	282	282	282	281	280	280	281	282	283	283	283			
PKLG	U004	277	277	278	277	277	279	277	276	275	277	277	277	275	277	277	255	206	202	271	281	280	276	280	277	278	278	272	280	279	279	279	277	279	278	276	272	277	276	277	277	277	274	274	275	275	281	274			
PKLG	U005	469	468	463	466	466	468	468	466	466	468	468	470	465	466	455	372	311	403	455	470	466	470	468	467	467	466	466	470	467	463	467	468	467	467	469	468	466	465	466	468	467	470	466	465	468	466	467			
PKLG	U006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	69	92	95	96	113	136	160	160	159	166	164	191	238	270	287				
TBIN	U001	689	687	687	688	689	689	687	689	689	689	689	689	689	689	689	695	629	662	693	689	690	691	687	690	689	689	689	687	689	689	689	689	688	688	690	688	687	690	689	689	687	689	689	689	689	690	689	690		
TBIN	U002	691	690	690	692	690	689	692	693	692	693	691	690	693	692	692	633	662	695	693	692	694	691	693	696	694	693	693	694	694	693	695	693	694	694	693	694	692	693	694	693	693	694	693	694	692	693	695	693		
TBIN	U003	692	692	689	690	689	689	691	693	691	691	689	690	691	690	691	640	664	691	692	691	692	693	691	691	690	692	692	691	691	687	690	693	691	691	692	691	692	692	692	691	692	691	691	692	690	693	693	693		
TBIN	U004	983	984	982	934	903	839	784	782	782	783	783	782	784	783	783	782	830	915	923	923	924	922	923	923	923	923	922	923	955	954	953	952	953	954	953	950	954	953	982	983	983	981	982	983	982	981	981			
Total ST-Coal		10631	10625	10605	10303	10196	9985	9850	9734	9609	9581	9544	9573	9532	9480	9487	9205	9125	9177	9412	9729	10065	10202	10329	10306	10305	10305	10301	10260	10262	10299	10417	10501	10463	10504	10460	10473	10474	10449	10561	10664	10792	10783	10787	10794	10808	10861	10825	10757		
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			
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	362	355	356	357	362	363	354	358	361	353	355	347	283	280	277	285	278	220	224	215	220	235	215	216	217	214	220	311	356	354	363	360	350	357	355	229	223	222	214	353	361	361	357	356	357	354	360	360		
GLGR	GT02	107	105	95	95	95	96	95	95	95	95	95	95	95	95	95	95	96	95	95	95	101	108	108	108	108	108	106	105	105	105	104	104	103	103	104	105	106	106	106	106	107	107	108	107	107	95	95	97		
GLGR	ST1C	46	45	39	39	39	39	39	39	39	39	39	38	39	39	38	38	38	39	38	39	40	46	47	47	46	46	46	46	46	46	45	45	45	45	45	45	46	46	46	46	47	47	46	46	39	39	39			
NPRI	BLK1	523	517	511	525	522	526	515	511	524	515	514	512	519	486	436	331	323	444	465	323	334	420	433	523	519	515	517	517	514	515	512	512	509	452	443	452	491	430	320	514	517	518	517	519	508	508	504	507		
PCGP	PGRG	599	585	570	600	603	603	582	588	597	583	578	578	603	593	585	586	586	415	400	400	400	586	586	586	586	586	586	586	586	600	600	567	590	586	586	603	595	584	615	589	600	600	592	599	596	592	597			
PGLA	GT11	212	175	161	167	166	165	165	164	164	163	160	163	176	165	164	168	164	162	167	169	166	160	162	164	163	161	165	162	166	164	165	168	163	166	164	165	168	164	164	168	195	200	200	201	168	165	168	166		
PGLA	GT12	234	197	182	188	188	188	187	187	186	186	184	184	198	187	185	190	188	184	190	190	189	182	184	185	185	182	187	183	186	185	187	188	184	188	184	186	190	187	186	190	219	224	224	224	190	187	190	188		
PGLA	ST10	237	220	203	204	203	216	213	203	208	201	203	200	207	203	203	203	203	212	205	207	207	215	204	207	206	209	209	209	207	207	208	208	203	206	203	203	203	203	202	205	217	220	226	225	205	202	203	205		
PLPS	GT11	136	112	112	117	144	115	135	135	139	133	133	132	138	137	134	137	134	137	136	143	143	137	138	137	136	135	138	134	136	136	136	136	136	136	136	135	131	135	128	126	125	135	113	131	132	135	125	121	114	116
PLPS	GT12	140	115	116	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT13	133	108	109	112	139	112	131	131	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	211	198	197	201	171	133	143	141	118	57	57	58	59	60	58	58	58	57	60	59	59	58	60	59	58	58	59	58	60	58	58	58	59	59	58	57	104	135	134	198	208	210	209	198	201	197	197			
SGRI																																																			

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
HTRG	HY02	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY03	23	23	23	24	24	23	23	23	23	23	23	24	23	23	24	23	23	23	23	24	23	24	23	24
KNYR	HY02	101	40	-1	-1	-1	-1	-1	-1	47	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	58	-1	-1
KNYR	HY03	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY04	101	99	57	61	57	61	58	57	60	58	58	56	61	60	58	59	58	61	58	58	59	56	57	57
LPIA	HY01	15	15	12	12	12	12	12	12	12	12	12	12	18	19	19	17	17	16	15	15	16	16	16	16
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3	3	6	3
PGAU	HY01	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	0	0	0	0	0	0	0	0	-1	19	20
PGAU	HY03	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	30	31
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	31	31
SYPS	HY01	17	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	16	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	23	17
TMGR	HY01	32	32	30	32	32	32	32	32	32	31	31	32	32	32	32	32	32	32	32	33	32	31	32	32
TMGR	HY04	33	31	29	33	33	33	32	33	31	31	31	33	33	32	33	33	33	33	33	29	32	32	33	33
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	97	93	-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
UPIA	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
UPIA	HY02	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		512	304	181	192	188	192	180	179	183	232	186	184	194	192	208	189	202	231	229	230	209	197	199	203
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	2	5	9	15	18	20	23	23	25	27	29	18
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	11	18	25	24	29	35	42	36	23	36	49
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4	38	43	21	32	32	31	29	9
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4	18	16	9	26	28	30	26	26	24
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	16	24	31	33	18	26	18	23	34	27
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	12	19	26	34	27	43	48	49	50	15	49
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	9	15	22	27	34	29	27	16	32	22	46
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	9	15	24	29	30	23	31	32	41	42	48
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	13	21	30	40	45	49	56	57	54	29
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	29	35	36	40	35	36	19	30	38
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	2	35	84	138	205	253	293	333	343	339	340	278
PCUF	CUFG	13	5	5	8	7	8	7	7	6	7	7	8	6	8	7	9	7	7	7	6	7	7	7	8
PCUF	CUFK	4	5	5	5	4	4	5	5	4	5	4	6	5	4	4	6	6	6	5	5	4	5	5	23
Total Co-Gen		17	10	10	13	11	12	12	12	10	12	11	14	11	12	11	15	12	12	11	10	13	13	12	12
Total Gen		16073	15623	15342	14963	14762	14459	14243	14006	13837	13673	13530	13484	13345	13287	13122	12605	12540	12593	12870	13156	13542	14020	14145	
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		30	30	31	31	31	31	29	29	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		4	-12	42	-33	15	-19	5	15	4	-1	58	5	16	5	36	-68	27	-4	1	-2	-30	47	-3	
Interconnection		34	18	72	-2	46	12	35	45	34	30	89	36	46	34	65	-39	57	27	30	27	0	77	27	
System Total		16043	15609	15274	14969	14720	14451	14212	13965	13807	13647	13445	13452	13303	13257	13061	12648	12487	12569	12843	13132	13545	13947	14122	
SRev ST-Coal		126	132	152	454	539	563	551	597	642	680	692	681	690	695	687	968	939	828	745	662	582	528	428	
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		185	414	552	503	298	395	464	441	411	455	441	517	622	627	814	1036	1064	1141	1150	1248	1228	915	959	

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-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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0