

Daily System Generation Summary on Sunday

Sunday, March 01, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,472 MW
Distillate	0 MW
Total TNB	2,472 MW
Total IPP	15,997 MW
Total Co-Gen	0 MW
Total System	21,169 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,484	2.22 %
Gas	31,905	9.45 %
Total TNB	39,389	11.67 %
ST-Coal	219,912	65.13 %
LSS	2,864	0.85 %
Gas	75,972	22.50 %
Total IPP	298,748	88.48 %
Co-Gen	226	0.07 %
Total Co-Gen	226	0.07 %
Total Generation	338,363	100.21 %
PLTG	-28	-0.01 %
HVDC	729	0.22 %
Interconnection	701	0.21 %
Net Energy	337,662	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:	21:00:00 Hour
Total Set On Bus	17,521 MW
TNB Generation	2,543 MW
IPP Generation	13,359 MW
Spinning Reserve	1,610 MW
Maximum Demand	15,926 MW
Net Energy	337,662 MWH
Load Factor	88.34 %

Fuel Cost

Total Cost:	54,165,680.40 RM
Cost per Unit	16.00 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	840
Hydro	254
Syncon	1,061
Thermal	106
Total	2,261

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	25

Gas Usage

Station	(mmcsfd)
GLGR	29
PGPS	2
TJGS	193
Total TNB	224
CBPS	50
KLPP	61
NPRI	74
PGLA	103
PLPS	66
SGRI	72
YPKA	28
Total IPP	454
Total Gas	678
Total Gas Required	678

Alternate Fuel Usage

Station	(mmcsfd)
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	15515	14857	14309	13702	13411	13083	12991	12752	11903	12353	12967	13472	13582	13764	14158	14454	14663	14538	14095	14294	15667	15926	15786	15521

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, April 02, 2020 9:03:10 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	696	693	696	696	695	693	695	696	692	691	694	691	697	693	693	694	698	694	695	695	693	691	690	694	697
JMHE	U001	980	983	977	975	982	983	809	780	777	780	779	783	780	778	776	780	780	777	783	901	894	896	895	901	
JMHE	U002	978	983	977	975	980	983	978	782	780	781	778	783	778	779	778	780	780	778	780	782	778	778	900	898	
JMJG	U001	682	670	670	672	670	675	672	668	671	668	673	673	671	671	672	666	662	677	673	677	679	674	678	676	
JMJG	U002	668	671	672	673	673	671	672	673	675	674	672	672	673	671	673	672	662	652	671	668	673	672	673	670	
JMJG	U003	665	662	663	664	666	661	667	665	662	665	664	664	663	670	667	657	666	664	662	663	666	667	666	664	
JMJG	U004	896	897	897	896	899	901	815	781	781	780	785	782	785	785	785	787	786	786	787	786	788	832	909	909	
JMJG	U005	978	977	976	975	978	972	785	779	780	779	781	782	779	779	782	781	780	778	780	782	779	781	779	834	
PKLG	U003	282	283	282	282	284	281	281	281	280	282	282	282	280	281	282	282	281	281	281	281	282	281	280	281	
PKLG	U004	278	274	279	280	279	284	279	278	278	278	278	271	279	277	279	279	279	279	278	275	279	277	276	277	
TBIN	U001	692	690	690	690	689	688	689	691	691	690	691	692	692	691	691	687	694	691	691	692	692	691	689	690	
TBIN	U002	691	690	688	693	690	690	691	692	690	691	691	693	692	691	691	690	694	697	693	693	693	694	693	694	
TBIN	U003	692	693	693	691	693	692	692	692	695	693	691	694	693	692	691	691	693	692	691	692	692	691	692	691	
TBIN	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	
Total ST-Coal		9178	9166	9160	9162	9178	9174	8725	8458	8453	8450	8459	8462	8463	8463	8471	8457	8466	8469	8594	8612	8975	9190	9222	9258	
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	359	353	352	359	359	352	354	364	357	361	358	356	356	363	357	211	202	216	222	215	220	220	224	222	
GLGR	GT02	108	109	109	108	108	109	109	108	96	95	96	96	95	95	96	96	96	95	96	95	95	95	95	95	
GLGR	ST1C	46	46	46	46	45	46	45	45	39	39	38	37	39	38	39	38	39	38	38	38	38	38	38	38	
KLPP	GT13	112	132	125	128	128	125	129	128	69	68	68	69	69	69	69	63	63	69	69	69	69	69	70	70	
KLPP	GT14	121	142	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	122	141	138	138	138	138	138	137	78	76	78	78	77	77	73	73	77	79	78	78	79	77	78	78	
KLPP	ST17	190	198	186	130	130	130	129	122	90	86	84	90	90	86	82	86	86	85	85	90	90	88	88	90	
NPRI	BLK1	506	508	503	512	511	505	507	511	513	514	508	512	507	515	496	409	305	330	361	439	512	505	496	506	
NPRI	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	0		
PCGP	PGRG	584	591	577	599	599	583	588	597	598	602	586	596	589	600	589	519	385	430	499	592	600	601	600	600	
PGLA	GT11	212	208	189	189	164	163	163	180	216	214	205	176	183	174	165	159	159	167	169	164	165	208	201	170	
PGLA	GT12	236	231	211	212	185	185	184	202	239	236	226	198	204	197	186	180	189	191	186	188	231	222	192	183	
PGLA	ST10	234	236	213	210	205	203	205	211	231	235	233	221	212	207	204	202	200	203	206	204	206	224	228	208	
PGPS	GT3A	92	92	93	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGPS	ST3C	42	42	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT11	114	107	137	142	142	137	138	142	111	111	60	59	64	64	59	59	66	67	63	67	67	67	67	64	
PLPS	GT12	116	115	144	149	150	145	147	150	120	119	62	63	65	66	66	59	59	68	67	64	67	67	67	64	
PLPS	GT13	109	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	ST18	198	173	143	145	145	144	145	143	133	131	95	91	91	92	92	89	88	94	95	94	95	96	97	95	
SGRI	GT13	137	136	136	136	136	136	136	138	113	112	110	112	112	111	108	106	109	109	109	112	112	112	112	112	
SGRI	ST14	66	66	67	67	67	67	69	67	59	60	60	59	60	60	60	59	59	59	60	59	59	61	59	69	
SGRI	GT21	132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT23	145	142	142	143	143	143	143	145	114	112	112	112	112	112	112	109	107	109	109	112	112	112	137	137	
SGRI	ST24	142	88	68	67	66	66	66	67	58	59	59	59	59	60	59	58	63	63	59	59	61	60	61	70	
TJGS	GT1A	225	219	192	222	192	136	188	216	234	220	220	193	209	205	163	133	121	127	126	146	196	201	205	156	
TJGS	GT1B	214	206	187	214	188	130	184	201	220	209	216	187	202	193	153	122	118	121	121	138	189	193	199	146	
TJGS	ST1C	245	232	222	214	204	178	200	217	238	227	236	220	220	218	201	174	166	163	163	179	213	226	237	190	
TJGS	GT2A	212	214	214	214	214	214	214	214	214	214	214	214	214	214	184	148	148	148	148	148	148	184	221	166	
TJGS	GT2B	211	211	211	211	211	210	212	211	211	211	211	211	212	212	182	143	145	145	145	145	143	182	218	164	
TJGS	ST2C	259	259	257	257	257	257	257	257	257	257	257	257	257	257	236	212	212	212	212	212	212	212	212	212	

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																									
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	16	23	32	31	44	49	50	50	49	34	46	50	49	41	36	33	29	22	12	5	1	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	4	11	19	23	28	39	45	48	53	54	55	42	56	44	42	47	34	26	15	8	5	1	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	2	4	6	11	21	23	25	37	40	41	42	42	41	40	37	33	31	27	22	13	8	4	1	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	25	71	126	189	254	290	338	377	401	396	416	390	364	380	377	344	314	252	168	128	81	40	10	1	0	0	0	0	0	0	0	0	0			
PCUF	CUFG	4	5	4	5	4	3	4	4	4	5	5	4	4	5	6	5	5	5	3	5	5	5	4	6	4	4	4	5	5	5	5	4	4	6	4	5	5	4	6	5	4	5	4	4	4				
PCUF	CUFK	38	5	4	3	5	4	2	4	5	4	5	3	4	4	4	4	4	5	6	4	3	4	4	4	3	5	4	3	4	6	6	5	5	4	4	4	4	5	4	3	5	4	4	4	6	3			
Total Co-Gen		42	10	8	8	9	7	8	6	8	10	9	9	7	9	8	8	9	10	9	10	11	7	8	9	9	8	9	9	8	7	9	11	11	10	8	8	10	8	10	9	7	11	9	8	9	9	10	7	
Total Gen		15534	15139	14864	14569	14322	14026	13727	13596	13435	13313	13114	12985	13025	13039	12775	12233	11972	12197	12362	12635	12945	13321	13474	13559	13606	13595	13736	13950	14197	14370	14473	14639	14664	14737	14589	14318	14138	14086	14269	15223	15700	15810	15911	15891	15787	15674	15523	15313	
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			
TIE-HVDC		31	31	31	30	30	30	30	31	31	31	31	30	30	31	31	31	30	30	30	30	30	30	31	31	31	31	30	30	30	30	31	31	30	30	31	31	30	30	31	31	30	30	30	31	31	30			
TIE-PLTG		0	-52	-12	-18	-5	21	7	0	5	5	12	2	17	12	5	3	50	-23	-10	-7	-40	-21	-16	-27	6	-6	-47	-3	20	11	1	7	-17	45	32	37	25	40	-43	55	14	-42	-34	-22	-18	-36	-17	30	
Interconnection		31	-21	19	12	25	52	37	31	36	36	43	32	46	43	35	33	81	7	21	23	-10	9	14	3	36	24	-16	28	51	40	31	37	13	75	63	67	55	70	-13	85	45	-12	-3	9	13	-5	14	60	
System Total		15515	15172	14857	14569	14309	13986	13702	13577	13411	13289	13083	12965	12991	13008	12752	12212	11903	12202	12353	12624	12967	13324	13472	13568	13582	13583	13764	13934	14158	14342	14454	14614	14663	14674	14538	14263	14095	14028	14294	15150	15667	15834	15926	15894	15786	15691	15521	15265	
SRev ST-Coal		169	181	187	185	169	173	407	491	493	502	487	496	483	488	496	506	174	166	180	171	168	253	235	-128	-183	91	149	99	71	139	107	85	158	96	92	196	186	187	407	177	177	178	179	186	168	162	315	258	
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		
SRev CCGT-Gas		443	651	755	561	669	762	477	345	507	634	814	947	907	918	1154	1696	1977	1821	1707	1508	1276	1050	963	1299	1471	1509	1485	1237	1071	998	947	798	819	901	989	1098	1211	1198	1179	481	174	118	118	128	318	310	395	537	
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		23	55	57	57	56	58	57	59	57	55	56	56	58	56	57	57	56	55	56	55	54	58	57	56	56	57	56	56	57	58	56	54	54	55	57	57	55	57	55	56	58	54	56	57	56	56	55	58	
Syncon		1117	1355	1355	1355	1355	1355	1355	1355	1355	1355	1355	1355	1204	1355	1204	1355	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1204	1053	1204	1204	1053	1204	1204	1204	1225	878	878	777	777	777	777	777	777	878	878		
Hydro		344	145	141	136	141	143	142	136	132	126	153	152	151	279	149	290	161	148	137	136	127	134	135	117	137	136	136	134	134	131	261	134	135	265	177	175	179	178	576	447	515	484	480	482	527	402	362	400	
S.Reserve Total		2096	2387	2495	2294	2390	2491	2438	2386	2544	2672	2865	3006	2954	2945	3211	3753	3723	3394	3284	3074	2829	2699	2594	2548	2685	2997	3030	2730	2537	2530	2424	2275	2370	2370	2519	2730	2835	2845	3095	2039	1701	1611	1610	1630	1846	1707	2005	2131	