

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,462 MW
Distillate	0 MW
Total TNB	2,462 MW
Total IPP	17,298 MW
Total Co-Gen	0 MW
Total System	22,583 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,650	2.20 %
Gas	32,928	9.47 %
Total TNB	40,578	11.67 %
ST-Coal	232,619	66.90 %
LSS	1,347	0.39 %
Gas	73,116	21.03 %
Total IPP	307,082	88.32 %
Co-Gen	310	0.09 %
Total Co-Gen	310	0.09 %
Total Generation	347,970	100.08 %
PLTG	-458	-0.13 %
HVDC	728	0.21 %
Interconnection	270	0.08 %
Net Energy	347,700	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	11:30:00 Hour
Total Set On Bus	17,945 MW
TNB Generation	1,877 MW
IPP Generation	13,879 MW
Spinning Reserve	2,181 MW
Maximum Demand	15,774 MW
Net Energy	347,700 MWH
Load Factor	91.84 %

Fuel Cost

Total Cost:	53,807,908.08 RM
Cost per Unit	15.46 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	645
Hydro	223
Syncon	1,254
Thermal	140
Total	2,262

Time	Weather	Temperature
Afternoon	Rainy	30
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	189
Total TNB	237

CBPS	51
KLPP	67
NPRI	148
PGLA	91
PLPS	59
Total IPP	416
Total Gas	653

Total Gas Required	653
---------------------------	------------

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	14807	14181	13677	13254	12832	12598	12843	12952	13292	14712	15374	15718	15524	15144	15389	15490	15496	15277	14422	14559	15392	15351	14817	14405

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, March 09, 2020 2:46:19 PM

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

Daily MW Generation on Wednesday

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	687	697	685	693	696	693	695	695	694	694	694	693	696	695	695	695	695	695	697	694	695	687	693	694	695	691	701	694	697	694	697	694	697	698																				
JMHE	U001	779	780	782	779	779	779	780	782	781	778	778	779	780	779	780	779	778	780	779	778	780	776	777	780	780	780	776	778	780	780	784	780	784	780																				
JMHE	U002	979	979	979	982	980	780	780	779	780	778	779	780	779	780	780	985	980	979	978	979	980	981	978	978	982	982	976	985	981	980	979	980	978	985	983																			
JMJG	U001	671	670	671	672	670	672	672	674	668	675	671	671	675	672	665	669	671	672	675	674	671	672	673	668	673	672	672	671	673	673	668	673	670	668	671	672	675	667	670	672	668	672	668	670	671	675								
JMJG	U003	666	667	670	667	670	669	671	671	667	671	668	668	666	668	666	668	664	671	670	669	668	678	663	667	658	679	663	663	665	667	667	668	666	667	669	670	662	671	662	664	665	667	666	668	669	664	668	667	668	668				
JMJG	U004	895	895	895	886	799	785	786	786	787	788	787	788	785	786	788	789	788	803	889	903	902	903	900	902	901	900	900	900	903	901	904	904	904	904	902	903	903	901	903	904	902	902	900	903	900	890	856							
JMJG	U005	978	980	977	966	853	789	786	782	786	788	785	785	786	785	787	785	786	816	909	973	976	976	976	972	976	977	977	977	978	976	976	981	977	978	977	977	977	977	979	980	978	980	978	978	934	848								
PKLG	U003	208	200	207	206	207	208	204	207	206	206	207	207	207	206	208	206	206	207	207	205	209	207	205	207	206	207	206	207	207	207	206	207	204	207	207	209	205	206	206	208	205	205	206	208	206	208	220							
PKLG	U004	142	142	141	141	141	140	140	140	137	139	141	140	144	142	139	136	141	140	142	141	142	141	141	142	140	142	137	139	143	142	142	140	140	140	142	140	142	140	141	143	139	138	145	143	143	142								
PKLG	U005	469	469	468	462	466	467	467	466	467	467	467	468	471	470	472	466	468	467	466	467	469	466	463	467	469	464	467	467	468	466	467	465	467	468	468	470	467	466	461	469	468	468	466	466	470	467	465	468						
PKLG	U006	269	269	269	268	269	270	267	272	270	269	268	270	269	268	272	271	268	264	257	269	269	268	269	278	339	415	449	447	446	448	449	447	449	450	449	449	448	449	449	451	449	450	449	449	449	446	445	445						
TBIN	U001	687	690	690	691	687	689	689	690	693	690	687	686	689	691	690	690	688	690	691	691	689	690	692	689	688	691	690	689	690	689	692	690	698	692	690	687	689	687	691	689	686	691	688	689	692	690	690	692						
TBIN	U002	687	694	697	693	691	692	694	694	691	691	694	697	693	694	694	697	692	693	695	694	692	693	696	691	693	695	694	689	690	692	700	692	697	691	694	695	695	697	699	690	690	696	693	694	695	693	695	697						
TBIN	U003	689	690	693	690	691	690	702	689	687	689	690	691	691	690	693	689	690	693	689	690	688	692	692	690	689	691	692	690	689	691	690	691	691	691	689	692	691	693	691	689	692	688	694	692	688	692	694	694						
TBIN	U004	983	984	982	974	888	799	782	782	783	783	782	782	783	782	782	783	811	898	980	982	982	981	981	982	980	983	980	979	984	983	981	982	982	982	983	982	985	984	984	983	982	982	983	982	981	983	982	982						
Total ST-Coal		9789	9806	9806	9770	9487	9122	9115	9106	9099	9108	9097	9109	9112	9106	9105	9112	9100	9174	9652	9819	9805	9809	9799	9815	9876	9952	9980	9976	9983	9984	10012	9990	10002	9998	9991	9995	9983	9980	9998	9984	9991	9986	9993	9980	10002	9987	9951	9848						
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	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	0	0				
CBPS	BLK2	360	357	357	351	357	358	359	358	352	222	222	223	223	224	224	223	223	360	353	354	353	358	353	362	353	362	362	362	362	346	353	361	361	359	359	352	217	219	238	362	362	357	360	352	353	360	354	324						
GLGR	GT01	101	100	101	97	68	68	68	68	67	67	68	67	66	68	68	66	69	67	67	66	68	66	67	67	67	68	66	66	66	67	68	67	67	67	67	68	67	67	68	85	107	106	107	107	105	108	101							
GLGR	GT02	100	101	101	96	68	68	68	68	69	68	68	68	68	68	66	68	68	68	68	68	68	68	67	68	68	67	67	67	67	67	68	67	67	68	67	67	68	68	86	108	107	107	107	108	106	101								
GLGR	ST1C	87	89	89	89	71	72	71	71	70	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	71	72	71	72	71	71	71	71	71	72	72	71	71	80	92	96	96	96	95									
KLPP	GT13	149	149	149	149	149	149	120	120	121	121	120	120	121	120	120	120	124	113	113	126	120	123	124	119	111	117	115	115	115	108	115	117	139	117	114	113	92	70	73	72	109	104	73	68	115	119	119	112						
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	61	141	128	137	135	134	123	132	129	129	127	124	124	131	158	128	127	22	0	0	0	0	0	0	0	0	0	0	0	0	0						
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	125	123	133	129	129	133	129	122	125	124	124	124	122	122	124	154	126	124	122	84	84	84	84	117	117	84	82	8	0	0	0						
KLPP	ST17	55	55	54	54	55	55	48	56	56	48	50	52	49	49	44	56	84	111	119	190	194	194	198	194	188	190	188	188	186	186	190	204	190	188	162	105	93	92	88	120	116	90	83	79	51	50	50							
NPRI	BLK1	509	509	509	493	500	509	509	510	358	326	328	327	322	341	404	369	512	510	504	511	506	512	509	515	499	514	512	515	510	492	506	514	515	509	508	505	502	454	529	529	521	518	516	514	517	522	520	462						
NPRI	BLK2	511	509	511	494	502	509	509	511	502	505	316	314	310	317	316	318	478	509	506	506	503	508	505	512	496	511	509	511	505	488	502	509	511	505	505	505	505	498	511	510	503	502	500	497	499	503	503	488						
PCGP	PGRG	601	600	601	582	591	600	601	602	592	596	600	598	592	601	600	605	603	602	597	597	591	598	592	602	580	600	597	601	596	573	590	603	603	596	594	582	593	579	601	604	587	584	582	574	582	592	585	552						
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	133	196	224	184	166	165	172	166	173	181	210	215	217	207	166	166	166	166	166	166	167	166	166	170	169	169	169	169	170	163	162	166	167	165	164	165	165
PGLA	GT12	241	241	241	236	238	243	173	173	170	173	172	177	220	252	207	188	187	194	185	194	199	235	240	242	230	188	187	188	188	188	189	188	188	189	190	188	189	186	191	192	186	184	185	183	184	185	184	184	179					
PGLA	ST10	112	111	111	109	109	111	90	89	89	90	87	81	213	248	215	205	206	212																																				

Daily MW Generation on Wednesday

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
CEND	HY03	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	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	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
HTRG	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
KNRG	HY02	35	35	26	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	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
KNYR	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
KNYR	HY03	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	99	60	60	56	56	58	59	58	59	59	58	58	62	60	60	62	61	58	58	82	89	89	60	56
LPIA	HY01	19	19	20	21	23	23	23	23	23	23	23	23	21	21	24	25	26	26	26	26	26	26	26	26
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	5	5	5	5	6	6	6
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	18	-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	18	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	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
SIHY	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
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
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
SYPS	HY03	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	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	31	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	33	33	33	30	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
TMGR	HY03	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	2	3	3	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3
Total Hydro		399	243	173	162	166	169	170	170	170	171	170	169	174	171	189	186	211	209	185	207	238	258	295	197
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
GBLS	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	5	4	4	4	5	5	4	5	5	5	4	6	4	3	4	5	5	6	5	4	5	4	5	4
PCUF	CUFK	0	5	3	6	4	5	4	5	6	4	5	5	4	3	6	5	5	6	5	7	5	3	5	4
Total Co-Gen		5	9	7	10	9	10	8	10	11	9	9	11	8	6	10	10	10	12	10	11	10	7	10	8
Total Gen		14820	14504	14205	14009	13708	13512	13282	13051	12861	12746	12604	12668	12885	13060	12949	12914	13301	14176	14729	15143	15400	15685	15729	15764
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	31	31	30	30	30	30	30	30	30	30	31	31	30	30	30	31	31	31	31	31	31	31	31

Daily MW Generation on Wednesday

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																								
TIE-PLTG		-11	-7	0	7	7	-8	6	-5	6	2	-17	-11	19	47	-27	-6	-14	-14	-6	-28	2	-2	-12	-33	-40	-4	7	9	7	-38	-103	-70	-81	-37	-34	-4	3	-20	-35	-56	-21	-36	-37	-52	-49	-47	-60	-15
Interconnection		20	24	31	37	38	22	35	25	36	32	13	19	49	78	4	24	16	17	24	3	33	29	18	-3	-9	26	38	40	37	-8	-73	-40	-51	-7	-3	26	34	11	-4	-25	10	-5	-6	-22	-19	-17	-30	16
System Total		14807	14487	14181	13979	13677	13497	13254	13033	12832	12721	12598	12656	12843	12989	12952	12897	13292	14166	14712	15147	15374	15663	15718	15774	15524	15338	15144	15294	15389	15562	15490	15450	15496	15454	15277	14792	14422	14315	14559	15260	15392	15423	15351	15153	14817	14678	14405	14055
SRev ST-Coal		159	142	152	188	402	479	469	473	485	473	484	474	470	477	479	471	487	484	306	139	153	149	159	143	122	66	138	142	135	134	106	128	116	120	127	123	135	138	120	134	127	132	125	138	116	131	167	218
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		235	416	353	505	526	361	583	807	991	1114	1476	1425	1207	1029	1269	1329	1148	769	722	557	560	339	353	365	575	764	980	889	830	750	929	886	669	926	898	1123	1146	1256	1056	565	468	437	523	673	811	591	783	992
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	
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	
SRev Co-Gen		65	61	63	60	61	60	62	60	59	61	61	59	62	64	60	60	60	58	60	59	60	63	60	62	61	62	61	49	52	60	60	60	60	62	60	52	49	47	47	47	48	46	38	36	46	59	59	58
Syncon		865	1117	1355	1355	1355	1355	1355	1267	1267	1267	1267	1267	1267	1267	1116	1355	1204	1204	1355	1355	1204	1204	1204	1355	1355	1355	1355	1355	1355	1355	1355	1355	1254	1103	1103	1355	1355	1355	1254	1103	1103	1103	1254	1254	1267	1267	1267	
Hydro		401	305	137	148	144	141	140	141	141	140	141	141	142	137	140	273	124	250	252	117	95	215	345	408	280	255	256	274	129	176	171	190	152	158	288	436	256	257	230	122	259	271	273	125	335	239	194	207
S.Reserve Total		1725	2041	2060	2256	2488	2396	2609	2748	2943	3055	3428	3366	3148	2974	3215	3249	3174	2765	2544	2227	2223	1970	2121	2182	2393	2502	2790	2709	2501	2475	2621	2619	2352	2520	2476	2837	2941	3053	2808	2122	2005	1989	2062	2226	2562	2287	2470	2742