

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,317 MW
Distillate	0 MW
Total TNB	2,317 MW
Total IPP	14,143 MW
Total Co-Gen	0 MW
Total System	18,973 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,204	6.64 %
Gas	37,601	10.76 %
Total TNB	60,805	17.40 %
ST-Coal	168,837	48.32 %
LSS	1,178	0.34 %
Gas	116,962	33.48 %
Total IPP	286,977	82.13 %
Co-Gen	1,482	0.42 %
Total Co-Gen	1,482	0.42 %
Total Generation	349,264	99.96 %
PLTG	-666	-0.19 %
HVDC	531	0.15 %
Interconnection	-135	-0.04 %
Net Energy	349,399	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:	15:00:00 Hour
Total Set On Bus	17,894 MW
TNB Generation	3,132 MW
IPP Generation	13,313 MW
Spinning Reserve	1,390 MW
Maximum Demand	16,507 MW
Net Energy	349,399 MWH
Load Factor	88.19 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	448
Hydro	585
Syncon	425
Thermal	141
Total	1,599

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
PAKA	28
TJGS	212
Total TNB	269
CBPS	52
KLPP	93
MPSS	38
NPRI	146
PGLA	111
PLPS	84
PTEK	5
SGB3	83
SGRI	53
SKSP	48
YPKA	55
Total IPP	768
Total Gas	1,037
Total Gas Required	1,037

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	13670	13007	12618	12359	12208	12005	12286	12502	13141	14863	15780	16275	16120	15737	16309	16507	16426	16306	15254	15443	15839	15491	14853	14499

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, January 05, 2020 8:54:55 AM

 (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	U001	692	691	694	691	693	693	691	694	692	690	691	689	689	691	692	692	692	691	694	692	692	692	693	693	694
JMAH	U002	694	693	694	695	694	694	694	695	694	694	697	694	696	693	694	694	696	694	687	691	696	694	693	695	693
JMHE	U001	976	782	778	779	780	778	775	778	780	781	777	779	781	781	778	779	781	982	980	981	979	981	982	903	898
JMJG	U003	668	670	668	662	668	664	668	669	667	667	669	665	666	666	668	673	666	668	666	667	666	668	668	670	674
JMJG	U004	983	922	836	804	804	804	805	804	807	804	808	806	804	806	982	978	980	981	979	979	982	980	977	979	980
PKLG	U003	284	284	285	284	283	285	280	281	285	285	283	283	285	279	284	285	286	283	284	226	180	137	140	141	141
PKLG	U004	282	275	281	279	281	279	278	277	281	281	284	281	281	279	280	298	282	280	280	280	281	280	280	282	275
PKLG	U005	464	465	466	467	470	468	464	466	466	468	468	466	467	468	468	466	466	469	468	469	690	691	692	693	689
TBIN	U001	690	687	690	689	689	690	691	690	689	692	689	689	690	691	687	690	689	690	691	0	0	0	0	0	0
TBIN	U002	694	695	691	692	690	693	690	691	693	693	690	696	692	692	697	693	694	695	694	692	692	693	693	697	691
TBIN	U003	691	690	678	689	687	691	679	698	689	686	690	689	689	692	689	689	688	687	691	688	686	690	688	689	687
TBIN	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	128	175	207	258	287	351	498		
Total ST-Coal		7118	6854	6761	6731	6739	6739	6715	6743	6743	6741	6746	6737	6740	6736	6746	6760	6745	7122	7205	7189	7189	7177	7224	6562	6649
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
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
CBPS	BLK2	359	356	357	357	361	356	362	362	271	217	217	224	222	223	258	363	362	358	362	362	362	360	361	361	358
GLGR	GT01	95	95	96	96	97	95	96	96	96	96	96	96	96	96	97	95	95	97	96	96	97	96	95	95	96
GLGR	ST1C	41	40	40	40	40	41	41	41	41	41	41	41	40	41	40	41	41	41	41	41	41	41	41	41	41
KLPP	GT13	95	67	68	67	68	69	69	69	69	69	68	68	69	69	110	110	109	124	131	138	140	139	141	130	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	60	141	135	144	150	156	152	149	142	
KLPP	GT15	80	81	79	79	80	80	79	79	79	79	81	80	82	79	82	119	119	118	133	145	151	153	154	151	143
KLPP	ST17	96	85	83	83	83	83	84	85	83	83	84	84	83	83	89	85	117	121	190	192	200	204	200	200	
MPSS	GT01	106	86	86	87	87	87	87	86	87	87	86	87	87	87	86	89	88	87	90	88	89	87	89	86	
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	108	85	86	
MPSS	ST01	48	37	36	35	35	35	36	36	36	35	35	35	35	35	36	37	36	36	37	35	35	36	38	105	
NPRI	BLK1	470	491	428	424	350	358	380	350	364	348	393	371	436	500	469	388	409	504	506	514	502	504	508	502	497
NPRI	BLK2	500	502	503	514	507	355	320	317	316	316	313	316	322	323	510	503	502	505	507	514	504	505	509	505	500
PAKA	GT4B	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
PAKA	ST4C	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
PCGP	PGRG	588	593	594	599	598	593	592	589	605	601	382	428	504	603	591	604	604	601	601	603	604	600	607	592	590
PGLA	GT11	165	197	165	165	166	163	168	162	168	166	163	168	168	180	169	166	166	181	172	209	212	215	215	225	224
PGLA	GT12	188	221	188	187	187	186	190	184	190	188	185	192	190	204	191	189	188	204	194	233	237	240	240	250	246
PGLA	ST10	207	223	205	207	204	207	205	207	207	204	206	204	207	206	206	206	206	211	206	235	237	237	241	252	253
PLPS	GT11	61	65	66	66	66	66	64	66	64	62	65	67	66	63	66	91	115	115	114	140	130	141	139	135	111
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	145	118	144	134	146	143	139	115	116
PLPS	GT13	61	64	65	65	65	63	65	62	65	65	62	65	63	63	60	64	85	112	113	112	135	126	136	135	130
PLPS	ST18	90	90	90	89	90	89	90	89	89	90	90	89	90	90	89	90	95	131	201	198	213	206	211	210	207
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	110	132	138	139	138	133	113	113
SGB3	GT32	72	72	72	72	72	72	73	73	72	72	72	72	72	72	72	111	114	111	136	142	145	143	136	117	118
SGB3	GT33	66	66	67	67	67	67	67	67	67	66	67	67	67	67	67	110	111	135	140	144	146	134	116	115	118
SGB3	ST34	92	92	92	92	92	92	93	93	92	92	92	92	92	92	92	103	127	194	210	218	219	219	211	203	199
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	141	141	141	141	143	143	110	111	111
SGRI	GT23	110	109	111	111	111	111	111	110	110	111	109	110	113	111	111	112	112	110	109	114	110	113	143	143	106
SGRI	ST24	61	62	61	61	61	61	60	60	61	61	60	62	62	58	60	60	62	60	66	137	137	137	137	138	141
SKSP	BLK1	245	246	219	217	220	217	226	217	216	218	225	216	242	219	230	219	278	272	331	338	300	333	329	269	265
TJGS	GT1A	220	219	220	226	161	216	213	162	188	149	208	220	222	227	200	214	226	230	226	223	227	227	224	227	228
TJGS	GT1B	215	213	210	216	160	206	201	160	182	141	208	214	213	216	196	209	217	220	220	219	217	220	222	218	214

Daily MW Generation on Wednesday

[illegible]

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
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	28	29	29	30	29	29	29	28	29	29	29	28	30	29	31	28	29	29	30	29	29	29	29	30
PCUF	CUFK	30	33	31	32	32	34	34	34	32	33	31	32	32	34	35	33	33	32	32	31	33	33	33	35
Total Co-Gen		58	62	60	62	61	63	63	62	61	61	62	59	62	60	63	62	63	64	63	61	62	61	65	60
Total Gen		13685	13265	12995	12832	12590	12479	12399	12188	12043	12013	12078	12227	12469	12532	12686	13137	14196	14821	15333	15727	15968	16210	16393	16117
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	30	30	31	31	31	31	30	30	29	29	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		-3	-12	-30	-37	-46	-33	21	-18	-38	-43	-10	-13	-76	-10	12	0	-22	-38	-60	-54	-72	-30	-83	-31
Interconnection		27	18	0	-7	-16	-3	52	13	-8	-12	20	17	-47	20	42	30	8	-8	-30	-24	-41	1	-53	-1
System Total		13670	13259	13007	12851	12618	12494	12359	12187	12208	12067	12005	12073	12286	12461	12502	12668	13141	14216	14863	15369	15780	15979	16275	16406
SRev ST-Coal		115	261	276	276	271	268	289	263	268	269	263	269	273	273	261	247	266	111	113	70	210	242	246	287
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		1191	1318	1491	1644	1877	1920	1913	2086	2087	2254	2264	2191	2049	1823	1751	1678	1297	761	654	417	340	317	207	192
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		17	13	15	13	14	12	12	13	14	14	13	16	13	15	12	13	12	11	12	14	13	14	10	15
Syncon		726	812	812	666	812	812	938	1064	1064	913	1064	1251	1251	1100	1251	1251	1251	1251	1125	464	464	428	0	0
Hydro		365	312	314	442	312	255	192	131	129	256	131	126	125	254	125	152	110	129	135	175	368	682	637	299
S.Reserve Total		2414	2716	2908	3041	3286	3267	3344	3557	3562	3706	3735	3853	3711	3465	3400	3341	2936	2263	2165	1801	1395	1719	1528	793