

Daily System Generation Summary on Monday

Monday, February 18, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,377 MW
Distillate	0 MW
Total TNB	2,377 MW
Total IPP	15,734 MW
Total Co-Gen	0 MW
Total System	20,699 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,682	2.40 %
Gas	36,445	10.06 %
Total TNB	45,127	12.46 %
ST-Coal	198,500	54.79 %
LSS	1,305	0.36 %
Gas	114,957	31.73 %
Total IPP	314,762	86.87 %
Co-Gen	1,476	0.41 %
Total Co-Gen	1,476	0.41 %
Total Generation	361,365	99.74 %
PLTG	-345	-0.10 %
HVDC	-606	-0.17 %
Interconnection	-951	-0.26 %
Net Energy	362,316	100.00 %

Maximum Demand Record

Date: 8/15/2018	18,338 MW
Date: 8/15/2018	388,524 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	18,786 MW
TNB Generation	2,895 MW
IPP Generation	14,354 MW
Spinning Reserve	1,478 MW
Maximum Demand	17,374 MW
Net Energy	362,316 MWH
Load Factor	86.89 %

Fuel Cost

Total Cost:	75,760,903.63 RM
Cost per Unit	21.48 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	348
Hydro	396
Syncon	857
Thermal	140
Total	1,741

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	46
PAKA	39
PGPS	19
SRDG	15
TJGS	156
Total TNB	275
CBPS	51
KLPP	90
MPSS	40
NPRI	152
PGLA	110
PKLG	3
PLPS	84
PTEK	23
SGB3	4
SGRI	75
SKSP	35
YPKA	76
Total IPP	743
Total Gas	1,019
Total Gas Required	1,019

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	14380	13639	13170	12666	12436	12234	12434	12596	13157	15037	15996	16571	16461	16127	16881	17232	17374	16985	15671	15486	16567	16598	16097	15734

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, March 01, 2019 9:58:06 AM

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

Daily MW Generation on Monday

[illegible]

Daily MW Generation on Monday

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			
SGRI	GT23	140	140	141	141	108	108	108	108	106	108	107	105	105	109	106	106	106	109	113	145	112	108	108	112	109	109	108	111	111	143	133	138	138	125	126	112	113	115	111	121	131	132	137	135	117	115	119	111	
SGRI	ST24	71	69	69	69	60	57	61	57	60	61	60	62	62	62	62	61	62	58	114	132	200	193	199	192	193	194	195	195	216	218	215	214	209	206	196	191	195	193	201	213	215	217	210	199	188	134	109		
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	93	343	338	294	337	219	266	337	217	221	219	337	337	336	334	340	337	305	332	219	218	218	219	231	326	331	336	313	271	292	337	263	
TJGS	GT1A	139	147	188	209	146	144	142	144	152	152	144	146	146	157	144	146	151	227	230	214	229	225	228	226	219	227	220	227	227	226	223	226	226	224	224	221	215	222	215	223	227	223	224	223	227	225	226	222	
TJGS	GT1B	128	137	178	205	139	134	137	137	143	139	137	139	140	147	133	137	145	214	216	204	218	212	213	216	213	214	209	213	216	214	214	214	212	215	209	202	211	208	214	211	215	216	213	212	214	213	214		
TJGS	ST1C	179	184	216	232	186	182	182	182	182	182	182	182	182	182	238	244	233	244	244	244	244	244	244	244	244	244	244	244	247	241	247	247	247	247	247	244	243	244	244	244	244	244	244	244	244				
TJGS	GT2A	217	217	217	217	217	217	153	153	151	150	152	152	153	154	153	152	152	223	229	229	229	234	234	232	232	232	232	229	229	229	229	229	229	229	229	229	229	232	232	232	232	232	232	232	232	232	232	232	
TJGS	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS	ST2C	126	126	126	126	126	126	93	99	102	102	102	102	102	102	102	102	102	130	130	130	130	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	133	135	129	
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	135	129	127	125	127	125	126	131	129	129	129	130	130	130	130	130	130	131	126	64	122	128	126	127	127	126	127	128	128		
YPKA	GT12	92	65	65	67	68	68	68	67	67	68	67	67	67	67	67	68	67	122	121	129	130	128	128	128	129	131	131	131	131	131	130	129	129	130	130	130	129	131	128	63	125	129	129	128	128	129	128	129	123
YPKA	ST10	48	33	32	34	34	34	34	33	34	33	34	34	34	34	34	34	33	34	90	123	124	122	124	125	125	126	128	128	128	128	128	129	129	128	128	128	129	80	116	124	125	126	125	125	125	125	127	103	
YPKA	GT21	93	65	65	65	65	64	65	65	65	65	65	65	65	65	65	65	65	65	127	124	138	125	124	125	125	124	133	134	134	134	133	134	134	134	132	133	120	66	66	115	116	115	115	116	115	115	115	115	
YPKA	ST20	53	36	36	36	36	36	36	35	36	36	36	36	36	36	36	35	36	36	59	59	62	60	60	60	59	60	62	63	63	62	62	63	62	63	62	62	60	39	39	56	57	57	57	58	57	57	57	57	
Total CCGT-Gas		4810	4669	4758	4824	4495	4322	4031	4017	3980	3818	3794	3835	4002	4310	4127	4238	4819	5948	6356	6717	7113	7080	7288	7403	7216	7218	7197	7481	7492	7578	7553	7576	7571	7500	7514	7280	7057	6781	6928	7334	7503	7548	7553	7536	7305	7216	6905	6531	
PKLG	GT08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	95	94	94	94	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PTEK	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	107	108	108	107	107	107	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	106	106	106	106	68	98	99	95	88	99	85	71	72	70	40	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	105	104	105	105	67	97	97	95	89	99	84	71	71	71	57	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	125	126	126	126	125	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	126	123	88	87	89	89	89	126	126	126	124	125	126	68	0	0	0	0	0	0	0	0	0	0	0	0	
Total OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	212	336	336	334	299	222	367	542	644	632	651	620	593	501	317	97	0	0	0	0	0	0	0	0	0	0	0	0	
BSIA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11			
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
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	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
KNRG	HY03	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37			
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	0	0	0	100	100	100	99	99	98	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY03	-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	104	102	102	102	102	101	101	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNYR	HY04	57	57	59	60	59	60	60	60	60	59	59	58	59	60	61	60	59	61	64	100	102	98	60	61	59	59	58	62	63	62	61	61	100	100	100	58	56	56	55	58	59	62	59	61	61	70	97	59	
LPIA	HY01	10	10	10	10	11	10	10	10	11	11	10	10	10	10	10	10	10	10	10	10	10	12	10	11	10	11	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
LPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	10	12	12	12	12	12	12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	3	4	6	6	6	6	6	6	6	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2		
PGAU	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	-																						

Daily MW Generation on Monday

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		
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	84	94	86	87	93	-1	-1	-1	-1	-1	-1	-1	-1	92	91	-1	-1	-1	-1	-1	92	88	115	-1	-1	-1	-1	-1		
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	-1	-1	-1	-1	86	-1	-1	-1	-1	94	92	94	94	93	94	-1	-1	-1	-1	-1	90	0	0	0	0	0	0	0	0	
UPIA	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	3	3	4	4	4	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4		
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	4	5	4	5	4	5	4	5	
Total Hydro		245	245	198	200	200	200	199	201	223	199	198	199	222	202	205	204	206	307	516	442	483	448	457	444	299	295	351	507	699	754	777	907	931	605	362	196	200	197	368	564	507	414	331	208	220	244	207	
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	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	1	2	4	7	9	15	27	17	20	30	23	18	30	21	20	28	26	11	18	5	9	6	6	4	1	0	0	0	0	0	0	0	0	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11	13	28	20	13	26	21	21	21	15	12	16	14	12	12	8	9	6	6	1	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	2	3	17	24	29	26	12	7	38	37	36	43	50	47	44	41	36	30	24	16	11	3	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	1	4	12	28	33	37	40	43	44	44	39	29	10	11	6	12	36	29	22	0	9	3	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	1	3	7	14	16	15	15	15	22	28	39	31	51	58	44	22	11	5	1	1	2	1	1	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	1	3	8	14	21	28	35	37	43	44	47	40	33	31	16	47	15	10	5	4	5	4	3	1	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	4	14	32	75	111	148	160	134	161	205	211	185	201	182	154	161	117	110	91	65	38	37	15	2	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	26	27	27	27	28	28	27	28	29	33	27	27	27	28	26	25	25	25	23	23	25	24	26	24	24	26	25	25	26	28	27	33	32	32	34	34	39	47	46	46	46	46	45	44	20			
PCUF	CUFK	32	33	32	32	31	33	33	31	31	31	32	33	32	32	32	32	32	32	32	32	30	31	31	31	30	30	31	31	32	30	31	31	33	30	31	32	30	32	30	31	31	33	31	32	31	32		
Total Co-Gen		58	60	59	59	59	61	60	59	60	64	59	60	58	58	60	58	57	57	57	55	53	56	55	57	54	54	57	56	57	56	59	58	66	62	63	66	64	71	77	77	77	79	77	77	75	52		
Total Gen		14426	14094	13659	13526	13142	12939	12616	12476	12390	12247	12202	12251	12406	12740	12536	12652	13137	14191	14886	15525	15893	16145	16482	16604	16416	16283	16112	16487	16826	17185	17185	17260	17308	17232	16941	16310	15669	15311	15457	16055	16527	16603	16529	16417	16073	15986	15702	15352
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		29	29	30	-29	-30	-30	-29	-29	-29	-28	-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	-29	-28	-28	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-28	-28	-28	-28	-28	-28	-29	-29			
TIE-PLTG		17	-27	-10	-16	2	4	-21	0	-16	28	-4	-30	1	9	-30	-9	7	-27	-122	-67	-73	-47	-60	-45	-17	-16	14	-14	-26	-10	-18	-26	-30	-54	-7	10	35	-35	7	26	-4	10	-32	-5	12	21	5	-2
Interconnection		46	2	20	-44	-28	-26	-50	-29	-46	-1	-32	-59	-28	-20	-60	-38	-20	-55	-151	-96	-103	-77	-89	-74	-45	-45	-15	-42	-55	-39	-47	-56	-58	-83	-36	-19	6	-64	-21	-3	-32	-18	-61	-33	-16	-7	-24	-32
System Total		14380	14092	13639	13570	13170	12965	12666	12505	12436	12248	12234	12310	12434	12760	12596	12690	13157	14246	15037	15621	15996	16222	16571	16678	16461	16328	16127	16529	16881	17224	17232	17316	17374	17323	16985	16337	15671	15383	15486	16066	16567	16629	16598	16458	16097	16001	15734	15392
SRev ST-Coal		174	197	359	393	453	390	414	540	396	403	392	384	394	392	390	283	319	352	228	157	98	92	92	94	106	107	146	80	102	151	142	138	143	137	133	123	159	150	158	172	164	156	162	206	164	174	169	215
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	8	10	45	122	86	129	27	39	20	51	78	75	136	121	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		871	873	784	493	822	925	1073	1087	1124	1286	1509	1468	1301	1098	1325	1769	1468	637	518	514	449	563	355	356	543	541	562	278	267	181	206	183	188	259	245	479	702	978	831	425	256	211	206	223	454	543	571	735
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	0
SRev Co-Gen		-3	-5	-4	-4	-4	-6	-5	-4	-5	-9	-4	-5	-3	-3	-5	-4	-5	-3	-2	-2	0	2	-1	0	-2	1	1	-2	-1	-2	-1	-4	-3	-11	-7	-8	-11	-9	-16	-22	-22	-22	-24	-22	-22	-20	3	
Syncon		1201	1201	1201	1201	1201	1201	1201	1201	1050	1201	1201	1201	1201	1050	1201	1201	1201	1201	1014	827	1014	1014	1014	1014	1201	1201	1201	1100	913	913	762	575	424	913	1100	1302	1302	1302	1115	575	575	762	863	1014	1014	1014	1014	
Hydro		261	261	258	256	256	256	257	255	384	257	258	257	385	254	251	252	250	336	414	301	310	345	336	349	307	311	305	300	395	340	468	525	652	339	295	259	255	258	374	618	489	395	377	249	237	208	245	
S.Reserve Total		2504	2527	2598	2339	2728	2766	2939	3081	2971	3114	3355	3306	3150	2922	3165	3500	3235	2437	2094	1910	1860	1985	1816	1807	2022	2199	2343	1950	1896	1666	1638	1570	1478	1547	1694	2126	2535	2674	2540	2070	1591	1409	1503	1645	1859	1946	1942	2212