

Daily System Generation Summary on Monday

Monday, November 26, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,094 MW
Hydro	2,454 MW
Distillate	0 MW
Total TNB	4,548 MW
Total IPP	16,996 MW
Total Co-Gen	63 MW
Total System	22,179 MW

Generation Mix

Type	MWh	Percentage
Gas	22,552	6.19 %
Hydro	14,558	3.99 %
Total TNB	37,110	10.18 %
ST-Coal	217,496	59.65 %
Gas	108,655	29.80 %
Total IPP	326,151	89.45 %
Co-Gen	1,279	0.35 %
Total Co-Gen	1,279	0.35 %
Total Generation	364,540	99.98 %
PLTG	432	0.12 %
HVDC	-506	-0.14 %
Interconnection	-74	-0.02 %
Net Energy	364,614	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:	16:30:00 Hour
Total Set On Bus	18,770 MW
TNB Generation	2,360 MW
IPP Generation	15,098 MW
Spinning Reserve	1,262 MW
Maximum Demand	17,555 MW
Net Energy	364,614 MWH
Load Factor	86.54 %

Fuel Cost

Total Cost:	69,321,943.88 RM
Cost per Unit	19.81 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	371
Hydro	367
Syncon	640
Thermal	184
Total	1,562

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	52
SRDG	12
TJGS	104

Total TNB 168

CBPS	54
KLPP	91
MPSS	36
NPRI	151
PGLA	99
PLPS	83
PTEK	23
SGRI	75
SKSP	34
YPKA	85

Total IPP 731

Total Gas 899

Total Gas Required 899

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	13905	13351	12829	12564	12260	12120	12231	12458	13358	15266	16287	16849	16873	16662	17258	17422	17525	17157	16078	16382	16905	16714	16164	15835

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, November 27, 2018 9:55:57 AM

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

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																								
JMAH	U001	691	692	692	692	691	693	692	692	694	692	695	693	692	694	693	695	692	692	693	693	692	692	693	694	692	692	694	691	694	694																		
JMAH	U002	694	694	692	693	690	693	693	695	694	694	695	692	694	693	694	695	695	694	696	693	692	693	693	696	691	693	694	693	693	695																		
JMJG	U001	667	672	672	672	672	679	671	673	672	672	671	614	632	678	668	671	665	671	676	669	672	670	671	673	671	671	672	670	667	671	668	672	674	672	668	673												
JMJG	U002	672	671	673	672	667	683	670	668	671	679	673	673	670	671	671	677	674	672	670	672	673	666	673	673	672	671	674	673	671	671	670	668	671	673	677													
JMJG	U003	662	668	666	662	665	663	663	662	666	666	663	667	665	666	666	662	665	665	666	662	660	666	666	662	657	667	663	664	663	666	662	668	601	609	636	670	664	667	669	673	668	668	669	658	656	669	667	665
JMJG	U004	786	782	785	785	785	785	785	785	785	785	786	785	785	785	786	783	851	939	983	981	981	982	979	981	982	979	982	980	980	981	981	982	982	983	981	981	982	981	982	982	981	980	982	980	982	982	982	
JMJG	U005	780	779	782	780	781	778	778	778	782	781	780	785	781	782	782	782	884	985	981	982	983	981	985	983	983	982	982	990	981	978	985	978	979	979	980	983	981	981	982	981	985	980	981	979	978	981	981	
PKLG	U003	284	283	286	283	283	281	278	283	280	279	282	280	284	282	281	282	283	282	284	284	282	282	284	283	280	280	282	282	280	282	284	282	279	283	284	284	283	284	282	278	280	280	280	279	282	285	281	
PKLG	U004	141	141	139	140	140	138	141	139	137	136	139	138	137	137	140	139	140	140	141	141	140	139	141	141	141	140	140	137	138	139	140	140	141	140	140	140	142	141	141	141	142	140	140	139	138	137	139	141
PKLG	U006	470	468	469	474	467	402	351	364	448	468	471	470	469	474	468	472	472	472	472	470	468	473	472	469	471	473	473	472	476	472	473	475	474	480	479	472	481	468	485	472	489	472	470	470	466	469	468	470
TBIN	U001	690	689	690	689	689	691	687	687	691	689	689	688	686	689	689	687	689	690	690	688	689	687	687	689	688	690	688	688	689	689	688	688	691	689	690	688	688	689	687	689	689	688	689	689	687	689	689	
TBIN	U002	687	693	691	692	691	690	691	697	693	689	690	692	690	695	692	693	691	693	691	690	691	691	693	691	697	691	688	691	690	689	692	689	690	692	691	691	690	696	689	695	690	691	692	693	690	687	691	693
TBIN	U003	692	691	688	692	689	595	516	699	692	690	689	691	692	689	692	691	690	691	691	692	689	691	692	693	689	692	692	692	689	692	692	679	690	691	691	689	690	690	687	693	689	692	691	692	686	690	689	690
TBIN	U004	804	803	802	801	802	799	803	802	803	803	803	799	801	802	801	802	879	951	952	953	951	950	953	952	951	953	952	952	951	954	951	952	951	952	952	953	953	952	953	952	951	952	952	952	951	953	950	951
Total ST-Coal		8720	8726	8727	8727	8712	8570	8419	8624	8708	8723	8726	8667	8678	8736	8721	8729	8908	9144	9235	9278	9261	9264	9283	9275	9273	9277	9267	9269	9280	9270	9272	9271	9211	9229	9252	9280	9288	9277	9286	9288	9285	9282	9264	9263	9244	9261	9269	9282
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		
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		
CBPS	BLK2	362	368	368	361	359	372	364	366	369	220	223	225	223	301	363	357	363	348	362	362	359	361	362	375	374	371	375	375	375	375	371	370	377	375	370	370	370	375	376	369	368	367	374	376	373	376	375	378
GLGR	GT01	69	70	68	67	67	70	69	68	67	68	68	71	70	68	69	69	67	107	104	103	103	104	104	105	103	104	104	104	103	103	104	103	103	104	103	102	67	67	95	104	103	104	103	105	104	102	67	68
GLGR	GT02	68	69	69	69	69	68	69	68	68	69	68	69	68	69	69	69	69	106	105	105	104	105	104	104	104	104	104	104	104	104	104	104	104	104	104	67	68	97	105	105	104	105	105	104	101	67	68	
GLGR	ST1C	70	70	70	70	70	71	70	70	70	70	70	70	70	70	70	69	90	92	92	92	92	93	93	93	93	93	94	93	94	93	93	93	93	93	75	71	83	92	92	92	92	92	92	92	71	71		
KLPP	GT13	111	112	0	0	0	0	0	0	0	0	0	0	63	142	141	141	146	145	146	147	145	147	147	146	146	146	146	146	146	146	144	145	145	146	145	146	145	146	145	146	145	145	145	142	107			
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	75	148	153	153	153	153	156	157	157	157	157	156	155	158	157	157	155	156	157	158	157	158	158	158	158	158	157	155	156	155		
KLPP	GT15	122	119	120	117	118	123	123	119	120	119	116	121	121	118	123	123	120	120	125	147	152	153	153	151	151	153	153	151	152	151	152	152	151	151	150	150	152	152	151	151	152	152	150	150	152	152	151	
KLPP	ST17	119	120	50	50	50	50	50	48	48	48	48	48	49	54	54	131	115	171	196	204	203	200	202	202	203	204	205	205	202	204	204	204	204	204	203	203	204	204	204	205	205	204	204	205	205	205	196	
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	45	101	105	105	104	104	104	104	103	103	103	103	104	104	95	70	94	106	105	107	107	107	108	108	108	108		
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	52	80	82	81	79	108	107	99	107	107	105	106	106	106	106	106	105	105	105	105	93	69	93	106	106	107	106	105	105	105	91	0
MPSS	ST01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	49	64	114	114	114	114	113	113	113	113	113	113	113	113	107	68	86	114	115	115	115	115	114	114	113	50	
NPRI	BLK1	518	517	517	509	508	525	457	401	427	499	481	491	525	419	524	380	454	368	501	506	499	505	505	504	502	500	504	504	505	502	506	501	505	505	498	497	496	503	505	500	495	498	504	506	499	494	494	487
NPRI	BLK2	522	519	521	511	510	535	455	398	425	502	487	490	532	423	530	511	329	317	504	508	503	508	507	508	505	500	506	507	508	503	510	503	506	506	498	500	501	508	506	503	494	502	505	505	500	492	500	490
PCGP	PGRG	401	402	401	397	396	409	400	401	401	261	265	269	269	268	269	270	401	395	399	402	400	400	399	403	397	394	402	402	401	403	402	403	402	404	397	397	396	396	396	396	396	396	396	396	396	396	396	
PGLA	GT11	173	171	175	167	0	0	0	0	0	0	0	0	0	0	58	148	215	216	219	231	228	228	228	226	224	226	226	225	224	224	224	224	224	225	223	222	227	227	224	225	229	234	233	233	206	221	219	
PGLA	GT12	174	173	176	171	189	213	222	203																																								

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																								
YPKA	GT12	134	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
YPKA	ST10	125	117	57	56	35	32	32	32	32	32	33	32	32	32	32	32	32	32	32	32	32	32	32	32																								
YPKA	GT21	135	136	135	135	135	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65																								
YPKA	ST20	63	64	63	63	63	39	37	37	37	38	37	37	37	37	37	37	37	37	37	37	37	37	37	37																								
Total CCGT-Gas		4633	4427	4129	3945	3681	3638	3622	3459	3232	3093	3070	3142	3212	3356	3397	3509	4150	5067	5674	6062	6136	6294	6411	6481	6463	6444	6478	6524	6526	6501	6542	6519	6546	6553	6392	6377	6180	6025	6436	6413	6347	6394	6443	6430	6413	6293	6108	5526
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	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	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	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																							
SRDG	GT05	0	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 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																							
BSIA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12																							
CEND	HY01	6	6	7	6	7	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6																							
CEND	HY02	7	7	7	6	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6																							
CEND	HY03	7	7	7	6	7	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7																							
CEND	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	0																							
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																							
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																							
KNRG	HY01	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																							
KNRG	HY02	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	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																							
KNYR	HY02	64	62	76	61	60	104	68	61	60	60	59	82	81	69	61	56	53	67	99	100	97	95	92	94	94																							
KNYR	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	0																							
KNYR	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	0																							
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20																							
LPIA	HY02	14	15	15	15	14	14	14	14	14	15	15	15	14	14	14	15	15	14	14	15	15	14	14	14	14																							
MNOR	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7																							
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																							
PGAU	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																							
SIHY	HY01	51	51	51	51	51	51	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
SIHY	HY03	51	51	51	51	51	51	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
SYPS	HY01	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
SYPS	HY02	24	24	24	24	24	24	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
SYPS	HY03	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
SYPS	HY04	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
TMGR	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																							
TMGR	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																							
TMGR	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	0																							
TMGR	HY04	36	36	36	35	34	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36																							
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	-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	-1																							
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5																							
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5																							
Total Hydro		509	448	463	444	444	488	453	293	243	239	240	263	262	240	249	205	199	191	292	416	793	926	1065	1196	1068	864	777	778	850	925	932	1013	1103	1105	893	701	402	327	501	994	980	851	787	680	454	398	396	461
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																							
PCUF	CUFG	27	28	28	29	28	28	29	29	28	29	28	27	27	27	28	26	27	24	24	23	22	24	26	23	24	24																						
PCUF	CUFK	29	29	29	27	28	30	28	28	28	27	28	28	29	28	30	28	28	26	28	27	27	26	27	28	27	28																						

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	
Total Co-Gen		56	57	57	56	56	58	57	57	56	56	55	55	55	56	55	58	54	55	50	52	50	49	50	53	50	52	51	52	53	53	50	49	50	50	49	51	52	53	51	52	53	53	50	56	54	54	53	55
Total Gen		13918	13658	13376	13172	12893	12754	12551	12433	12239	12111	12091	12127	12207	12388	12422	12501	13311	14457	15251	15808	16240	16533	16809	17005	16854	16637	16607	16910	17171	17320	17365	17418	17480	17508	17153	16704	16081	15820	16420	16969	16887	16801	16682	16429	16165	16006	15826	15324
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		0	0	0	0	0	0	0	0	0	0	0	0	0	-28	-28	-29	-29	-29	-29	-29	-28	-28	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-28	
TIE-PLTG		25	6	37	35	76	-12	-2	1	-10	17	-17	-55	-12	-8	5	17	-3	3	45	53	40	-29	34	8	59	-1	14	1	2	2	4	65	25	16	65	126	53	36	78	-12	23	-23	9	2	42	-7	31	0
Interconnection		25	6	37	35	76	-12	-2	1	-10	17	-17	-55	-12	-37	-24	-12	-32	-26	16	23	11	-58	6	-20	31	-31	-16	-28	-27	-27	-24	36	-4	-13	36	97	24	7	49	-41	-6	-53	-20	-27	13	-35	3	-28
System Total		13905	13664	13351	13149	12829	12778	12564	12443	12260	12105	12120	12194	12231	12437	12458	12525	13358	14507	15266	15835	16287	16643	16849	17057	16873	16718	16662	16999	17258	17409	17422	17443	17525	17555	17157	16636	16078	15827	16382	17021	16905	16866	16714	16468	16164	16053	15835	15364
SRev ST-Coal		411	403	403	399	415	500	524	385	306	405	403	455	359	303	407	90	-89	-235	134	191	208	205	186	194	196	192	202	200	189	199	197	198	168	150	127	169	171	182	133	171	174	177	195	196	215	198	190	177
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	201	57	5	5	7	10	6	5	9	155	168	80	72	-4	-4	-3	80	0	0	0	0	0
SRev CCGT-Gas		627	693	632	679	585	628	644	807	1034	1173	1196	1124	1054	910	869	1739	1440	895	554	381	457	384	343	368	346	365	331	285	283	308	267	290	263	256	417	432	629	784	373	396	462	415	366	379	396	516	485	546
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		
SRev 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		
SRev Co-Gen		7	6	6	7	7	5	6	6	7	7	8	8	8	7	8	5	9	8	13	11	13	14	13	10	13	11	12	11	10	10	13	14	13	13	14	12	11	10	10	13	7	9	9	10	8			
Syncon		1099	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	948	948	725	599	599	473	473	786	912	912	761	635	635	448	363	363	550	863	1099	1200	948	423	423	610	736	862	1013	1014	1014	912	
Hydro		170	130	115	134	134	90	126	136	136	140	138	115	116	138	129	136	142	150	301	277	323	322	183	178	306	248	209	208	337	387	381	487	482	480	505	309	247	121	274	531	544	486	424	305	280	151	153	88
S.Reserve Total		2314	2432	2356	2419	2341	2423	2500	2534	2683	2925	2945	2902	2737	2558	2613	3170	2702	2018	1950	1808	1726	1524	1324	1223	1334	1602	1867	1673	1585	1544	1500	1447	1295	1267	1622	1940	2325	2377	1812	1528	1609	1695	1814	1749	1913	1888	1852	1731