

Daily System Generation Summary on Friday

Friday, January 10, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,432 MW
Distillate	0 MW
Total TNB	2,432 MW
Total IPP	16,211 MW
Total Co-Gen	0 MW
Total System	20,763 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,801	2.40 %
Gas	22,715	6.20 %
Total TNB	31,516	8.61 %
ST-Coal	219,713	59.99 %
LSS	2,214	0.60 %
Gas	110,422	30.15 %
Total IPP	332,349	90.75 %
Co-Gen	1,587	0.43 %
Total Co-Gen	1,587	0.43 %
Total Generation	365,452	99.78 %
PLTG	-92	-0.03 %
HVDC	-697	-0.19 %
Interconnection	-789	-0.22 %
Net Energy	366,241	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:	15:30:00 Hour
Total Set On Bus	18,855 MW
TNB Generation	1,838 MW
IPP Generation	15,153 MW
Spinning Reserve	1,792 MW
Maximum Demand	17,154 MW
Net Energy	366,241 MWH
Load Factor	88.96 %

Fuel Cost

Total Cost:	59,339,723.46 RM
Cost per Unit	16.22 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	544
Hydro	266
Syncon	1,160
Thermal	165
Total	2,135

Time	Weather	Temperature
Afternoon	Rainy	33
Morning	Sunny	27

Gas Usage

Station	(mmcsfd)
GLGR	47
SRDG	3
TJGS	115
Total TNB	164
CBPS	51
KLPP	96
MPSS	37
NPRI	145
PGLA	109
PLPS	88
SGB3	51
SGRI	82
YPKA	34
Total IPP	693
Total Gas	858

Total Gas Required 858

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	15250	14448	14082	13500	13086	12966	13247	13152	13387	14992	15910	16508	16477	16045	16327	17077	17084	16769	15718	15657	16506	16373	15903	15583

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, March 09, 2020 1:11:20 PM

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

Daily MW Generation on Friday

		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		694	696	692	695	694	696	694	693	696	695	695	692	694	695	695	695	693	702	694	695	695	693	693	694	698	695	695	698	693	694	693	694	694	
JMHE	U001		981	977	978	979	798	800	798	801	801	802	799	800	801	801	800	802	800	810	977	982	981	980	977	978	981	982	978	980	979	978	981	980	982	980
JMHE	U002		979	979	980	797	800	801	800	800	799	802	798	800	800	801	801	802	800	799	982	983	977	980	979	982	981	980	980	979	980	983	978	980	981	
JMJG	U001		670	672	678	671	673	673	668	672	672	673	671	672	671	673	671	672	671	671	673	670	667	673	670	668	670	680	672	669	672	673	671	675	676	
JMJG	U003		669	670	666	667	671	672	672	666	670	667	668	669	667	672	673	665	663	669	667	667	667	667	668	667	666	666	666	666	669	666	668	666	668	
JMJG	U005		980	979	949	797	801	799	804	800	803	800	803	803	801	801	803	804	804	915	981	977	982	977	980	982	981	977	978	979	978	979	985	977	976	
PKLG	U003		261	262	261	264	258	261	264	256	260	259	261	263	259	259	261	263	262	258	261	276	285	282	285	281	282	281	278	280	278	272	275	279	280	
PKLG	U004		261	261	261	260	257	254	256	262	261	266	264	264	263	264	263	282	273	282	280	280	281	281	280	280	281	281	279	278	281	282	276	280		
PKLG	U005		465	462	459	466	464	464	465	466	470	472	469	469	468	468	466	463	468	468	471	469	467	466	465	461	466	467	466	468	467	464	468	461	467	
PKLG	U006		449	449	446	449	449	448	448	446	448	449	449	449	447	446	449	448	448	448	449	448	445	450	448	446	446	445	445	449	448	446	446	447	449	
TBIN	U001		690	689	690	688	691	689	691	691	689	692	689	690	690	691	692	689	690	687	690	689	690	689	690	689	690	689	690	689	689	690	689	689	690	
TBIN	U002		691	692	689	694	691	690	693	690	689	692	689	690	691	689	686	688	690	690	691	692	690	695	691	690	692	691	690	689	693	689	691	691	692	
TBIN	U003		690	692	691	691	690	690	690	690	689	690	690	691	693	692	689	690	690	690	693	691	690	691	690	690	690	690	690	690	693	692	691	691	690	
TBIN	U004		0	38	180	213	277	312	399	511	647	806	804	802	803	802	803	801	802	805	894	983	982	982	983	983	983	982	982	982	982	983	983	983	983	
Total ST-Coal			8480	8518	8620	8331	8214	8249	8342	8444	8591	8766	8749	8757	8748	8753	8747	8763	8759	8781	9337	9493	9492	9513	9497	9502	9501	9501	9484	9494	9492	9486	9493	9509	9496	
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	
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	
CBPS	BLK2		356	362	354	361	362	357	357	361	269	212	219	221	222	215	216	261	363	349	357	362	358	358	360	360	362	362	362	360	361	361	361	357	361	
GLGR	GT01		72	72	74	73	74	73	74	74	74	73	74	72	73	74	74	104	86	89	88	105	100	101	69	72	72	71	102	100	99	101	101	99	69	
GLGR	GT02		73	73	73	73	74	74	74	74	74	74	74	73	74	74	76	102	87	88	88	105	100	100	68	72	73	73	102	97	98	97	96	97	71	
GLGR	ST1C		60	60	61	60	60	60	60	60	60	60	60	60	59	60	59	86	79	75	75	81	89	89	71	61	61	61	79	88	88	88	88	88	65	
KLPP	GT13		118	120	119	138	137	111	72	72	69	72	73	75	75	72	74	72	103	120	113	137	138	137	136	130	120	120	119	138	139	138	138	138	131	
KLPP	GT14		128	129	56	0	0	0	0	0	0	0	0	0	0	0	36	77	154	146	158	150	154	136	141	129	127	128	152	155	154	155	148	139	127	
KLPP	GT15		128	128	132	144	144	120	82	82	82	82	82	84	86	85	82	85	83	114	130	116	144	153	148	151	136	140	128	131	128	150	154	153	151	
KLPP	ST17		194	194	182	134	133	122	98	94	90	94	90	86	91	94	88	93	94	118	178	192	200	203	203	200	196	200	196	192	193	203	200	200	200	
MPSS	GT01		89	90	90	88	89	89	88	87	86	86	88	89	90	90	87	87	88	90	88	91	92	90	88	87	87	87	82	107	91	93	96	101		
MPSS	GT02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	82	107	91	92	96	100	101	95		
MPSS	ST01		39	38	36	36	36	36	36	36	34	34	36	36	36	36	35	35	36	34	36	38	37	38	36	37	36	50	107	93	93	93	105	106		
NPRI	BLK1		511	508	441	487	516	502	492	479	328	317	356	382	416	520	447	461	493	531	413	343	511	509	509	510	508	517	511	517	504	511	517	508		
NPRI	BLK2		513	511	506	516	523	518	520	515	413	364	309	308	310	400	397	391	514	514	488	507	514	509	511	511	509	517	511	516	505	512	516	511		
PCGP	PGRG		595	590	591	600	603	603	601	594	572	583	600	600	605	609	596	594	601	603	565	603	602	603	599	602	598	603	602	592	602	603	604	601		
PGLA	GT11		198	190	162	184	211	197	167	165	161	164	167	164	214	213	180	162	172	202	162	169	191	200	202	212	189	194	188	199	176	215	214	221		
PGLA	GT12		218	212	184	207	236	221	188	189	184	185	187	186	237	237	202	184	194	227	183	190	215	223	224	235	210	215	212	221	197	238	238	243		
PGLA	ST10		235	231	205	232	232	225	205	205	203	205	207	207	237	235	224	208	206	226	203	203	216	236	239	234	229	224	224	237	215	243	242	243		
PLPS	GT11		123	115	112	149	127	66	65	66	61	62	66	65	66	65	65	66	66	118	134	116	136	136	132	136	130	131	115	115	116	128	132	135		
PLPS	GT12		126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	119	140	141	137	142	135	135	118	119	120	133	137	141			
PLPS	GT13		120	112	109	132	113	112	64	64	59	60	64	64	64	64	65	63	114	130	111	131	133	131	133	127	129	112	111	114	126	129	132			
PLPS	ST18		209	135	131	147	141	124	91	89	86	86	89	90	90	90	90	90	89	132	145	198	211	212	213	209	206	208	197	203	197	206	208	210		
SGB3	GT31		113	112	108	114	114	111	110	111	107	106	109	111	111	113	113	109	109	111	105	111	111	114	114	119	120	109	111	110	119	128	129	115		
SGB3	GT32		119	118	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	GT33		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	ST34		138	135	123	65	65	66	66	65	65	63	63	65	65	65	65	65	65	65	64	64	64	69	137	141	142	134	137	134	141	142	142	138		
SGRI	GT21		110	107	106	109	109	67	67	68	63	67	67	68	70	70	70	68	71	113	137	106	120	130	127	133	107	109	110	110	110	110	132	136		
SGRI	GT22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	118	123	134	130	136	113	112	112	113	113	114	113	136			
SGRI	GT23		111	110	107	111	111	68	68	69	65	68	68	69	73	73	69	69	69	112	146	108	121	132	130	137	110	112	109	112	111	112	111	135		
SGRI	ST24		1																																	

Daily MW Generation on Friday

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
TJGS	GT1B	182	164	164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	ST1C	216	95	91	116	123	123	116	92	89	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT2A	214	214	214	214	215	213	215	145	145	148	147	147	147	147	212	210	210	210	209	209	209	211	210	210
TJGS	GT2B	211	211	211	211	212	212	213	141	144	144	144	145	143	144	144	210	207	207	207	208	208	207	207	206
TJGS	ST2C	259	259	259	259	257	257	214	212	212	212	212	212	248	255	255	255	255	255	257	260	260	260	260	260
YPKA	GT11	97	97	64	64	64	64	64	65	65	64	65	66	64	64	91	87	91	91	92	0	0	0	0	0
YPKA	GT12	99	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPKA	ST10	104	65	31	30	30	30	30	30	30	30	30	31	30	30	30	39	37	39	38	14	0	0	0	0
YPKA	GT21	65	64	65	65	64	65	65	65	65	65	65	66	64	65	65	85	80	85	87	117	117	117	117	118
YPKA	ST20	39	38	38	39	39	38	39	38	38	38	38	38	39	38	38	45	43	45	44	53	54	55	54	55
Total CCGT-Gas		6494	6062	5573	5515	5578	5262	4927	4674	4256	4004	3944	3973	4164	4369	4159	4124	4349	5192	5333	5506	5903	6019	5991	6182
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
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
BSIA	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
BSIA	HY02	11	11	11	12	12	12	12	11	11	11	12	12	12	11	11	12	12	12	12	22	22	22	22	11
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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	23	23	23	23	23	23	23	23	23	23	24	23	23	23	23	22	23	23	23	23	23	23	23	23
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	101	60	60	-1	-1	99
KNYR	HY03	54	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	101	100	59	60	59	99
KNYR	HY04	60	59	58	94	71	61	60	60	58	58	59	59	82	74	62	59	64	89	55	58	63	64	101	60
LPIA	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	15	15	15	10	10	10	10	10	10	10
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	4	4	4	4
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	-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	33	33	33	33	33	34	33	33	31	31	33	33	33	33	33	29	33	34	33	33	33	34	33	33
TMGR	HY04	-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	HY01	-1	-1	-1	77	-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						

Daily MW Generation on Friday

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
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	7	24	32	32	31	31	32	32	32	33	31	33	32	33	32	32	32	33	32	32	33	31	32	31
PCUF	CUFK	13	11	13	10	14	11	12	11	39	39	40	41	38	39	39	40	40	39	39	40	39	39	41	39
Total Co-Gen		20	35	45	42	45	42	44	43	71	72	71	74	70	72	70	72	73	72	73	71	76	71	72	70
Total Gen		15212	14831	14400	14188	14013	13720	13501	13325	13078	13024	12927	12968	13170	13373	13142	13122	13367	14288	14988	15377	15850	16108	16460	16631
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		-31	-28	-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-31	-28	-28	-29	-29	-30	-30	-29	-29	-28	-28
TIE-PLTG		4	35	-8	-9	-27	-11	42	16	33	34	2	-16	-36	9	32	20	21	-10	37	-60	-17	-55	-8	12
Interconnection		-26	6	-36	-39	-57	-40	13	-13	4	4	-27	-46	-65	-20	2	-8	-8	-39	8	-89	-48	-83	-36	-17
System Total		15250	14837	14448	14239	14082	13772	13500	13350	13086	13032	12966	13026	13247	13405	13152	13142	13387	14339	14992	15478	15910	16203	16508	16660
SRev ST-Coal		144	206	174	252	354	370	281	176	329	360	367	365	373	471	477	467	465	477	297	147	148	147	163	158
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		923	970	1317	769	706	1022	1357	1610	2028	2280	1985	1956	1765	1560	1770	1805	1580	890	1107	1084	687	506	553	362
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		53	38	28	31	28	31	29	30	2	1	2	-1	3	1	3	1	1	0	1	0	0	2	-3	2
Syncon		1354	1354	1354	1016	1354	1354	1203	1354	1354	1203	1354	1354	1354	1354	1354	1354	1354	1354	1203	1253	1079	928	1079	1267
Hydro		200	202	156	356	142	151	281	154	158	287	155	154	130	139	152	155	149	124	164	151	273	143	246	526
S.Reserve Total		2674	2770	3029	2424	2584	2928	3151	3324	3871	4131	3863	3828	3625	3525	3756	3782	3549	2845	2923	2736	2311	2051	2038	1976