

Daily System Generation Summary on Sunday

Sunday, January 12, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,405 MW
Distillate	0 MW
Total TNB	2,405 MW
Total IPP	17,091 MW
Total Co-Gen	0 MW
Total System	21,616 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,571	2.33 %
Gas	18,854	5.80 %
Total TNB	26,425	8.14 %
ST-Coal	227,512	70.04 %
LSS	2,049	0.63 %
Gas	68,298	21.03 %
Total IPP	297,859	91.70 %
Co-Gen	237	0.07 %
Total Co-Gen	237	0.07 %
Total Generation	324,521	99.91 %
PLTG	398	0.12 %
HVDC	-700	-0.22 %
Interconnection	-302	-0.09 %
Net Energy	324,823	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:	21:30:00 Hour
Total Set On Bus	17,203 MW
TNB Generation	1,327 MW
IPP Generation	13,787 MW
Spinning Reserve	2,075 MW
Maximum Demand	15,151 MW
Net Energy	324,823 MWH
Load Factor	89.33 %

Fuel Cost

Total Cost:	49,854,491.39 RM
Cost per Unit	15.35 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	651
Hydro	167
Syncon	1,232
Thermal	389
Total	2,439

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	47
TJGS	93
Total TNB	140
CBPS	47
KLPP	49
NPRI	144
PGLA	61
PLPS	47
SGRI	40
Total IPP	389
Total Gas	529

Total Gas Required 529

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	14587	13961	13342	12973	12653	12466	12408	12279	11622	12178	12930	13323	13482	13521	13806	13994	14101	13815	13528	13815	14965	15074	14997	14683

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, March 09, 2020 1:12:59 PM

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

Daily MW Generation on Sunday

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	695	696	695	693	696	695	695	695	693	695	693	695	693	685	685	685	683	684	689	695	695	697	693	696	695	693	692	695	694	694	697	693	694	694	692	693	694	691	692	692	694	696	693	694					
JMHE	U001	983	983	876	880	775	782	777	779	782	780	782	784	780	781	777	779	784	780	780	781	780	781	781	792	878	880	879	881	881	878	873	880	878	879	878	879	882	879	880	939	972	971	971	970	970	970	966		
JMHE	U002	981	986	878	879	778	783	777	778	780	777	781	784	779	779	777	781	783	782	781	781	780	781	781	805	878	881	880	879	880	878	876	882	880	880	880	880	879	882	880	880	953	971	970	969	970	969	970	972	963
JMJG	U001	666	668	666	668	657	667	670	665	668	668	665	667	666	665	667	615	598	650	666	664	665	667	671	670	669	673	671	673	669	672	669	670	671	671	670	671	679	671	670	674	671	678	667	667	672	673	669	673	
JMJG	U003	662	662	667	669	669	668	669	668	667	666	667	669	668	667	666	615	595	661	672	662	664	667	664	667	667	667	669	668	667	668	668	667	668	667	668	666	671	668	667	670	667	668	666	668	670	669	671	668	
JMJG	U004	0	0	0	0	0	0	0	0	0	0	0	224	262	269	269	340	434	437	550	614	631	677	718	735	742	742	740	742	740	742	742	740	742	741	742	743	740	741	740	744	749	748	797	880	927	941	941	942	
JMJG	U005	982	973	876	884	779	778	785	782	782	785	782	783	783	782	781	783	783	780	783	780	783	783	780	790	888	887	876	885	882	881	881	881	883	882	885	892	876	883	882	977	973	970	971	975	970	973	971	948	
PKLG	U003	275	277	274	227	255	277	278	279	279	280	280	280	282	279	283	251	163	234	275	280	280	282	279	282	281	281	280	281	285	281	280	278	275	269	280	282	272	277	276	274	260	265	196	197	195	199	197		
PKLG	U004	213	180	179	177	205	230	262	279	274	280	280	280	278	280	282	257	167	203	246	271	281	280	281	280	279	279	280	280	282	280	282	281	279	277	276	280	280	280	283	283	280	284	279	277	274	282	280	281	
PKLG	U005	468	468	468	467	468	467	459	466	466	466	467	472	469	464	468	457	376	418	468	468	468	463	468	468	466	466	468	468	468	468	467	467	467	466	467	466	466	466	466	466	468	467	469	468	467	468	468	465	
PKLG	U006	449	448	387	361	358	336	363	362	413	442	449	450	453	450	449	449	449	452	449	446	446	449	449	446	446	449	448	447	449	446	449	446	448	448	449	447	449	444	450	447	447	448	448	447	447	448	451	446	
TBIN	U001	690	689	689	686	690	688	688	691	691	689	689	690	688	689	688	691	638	681	680	678	681	681	689	690	692	691	688	689	689	690	688	690	690	689	692	691	689	689	689	690	691	690	690	693	691	691	689	690	
TBIN	U002	691	693	690	691	693	692	691	692	691	692	693	688	693	692	690	693	641	683	679	684	681	690	695	695	693	695	690	693	692	695	691	693	693	693	695	694	694	692	694	694	694	693	697	693	693	696	691	696	
TBIN	U003	691	691	690	691	689	690	690	692	692	691	690	689	692	691	691	688	641	684	683	684	685	685	694	691	690	695	694	692	692	692	693	692	694	694	691	691	692	692	692	693	692	692	692	692	693	692	692	692	
TBIN	U004	982	983	897	881	792	782	784	783	783	781	782	782	782	780	782	782	783	784	782	783	783	782	784	789	879	886	884	883	883	883	885	883	883	881	882	882	884	883	882	953	972	972	972	970	971	973	969		
Total ST-Coal		9428	9397	8932	8854	8504	8535	8588	8611	8661	8692	8700	8936	8971	8956	8964	8875	8468	8917	9176	9264	9291	9352	9423	9495	9843	9869	9840	9857	9854	9847	9835	9846	9843	9832	9854	9857	9849	9839	9843	10152	10215	10202	10245	10260	10303	10336	10330	10290	
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	
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
CBPS	BLK2	362	361	365	356	360	361	357	361	258	299	302	248	224	224	218	216	223	223	223	223	227	262	357	362	298	224	224	228	361	361	354	324	305	302	278	222	219	221	349	363	357	364	359	365	363	364	360	354	
GLGR	GT01	107	108	90	72	73	74	72	74	75	72	75	72	74	74	72	75	73	73	74	74	73	74	73	72	72	74	72	73	72	72	73	72	72	71	72	73	89	89	77	72	89	88	72	72	73	74			
GLGR	GT02	104	104	88	73	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	73	73	72	73	73	72	73	73	72	73	72	73	72	92	89	75	73	89	88	73	73	73	74				
GLGR	ST1C	93	94	88	62	60	60	60	60	60	60	60	60	60	60	60	60	60	60	59	59	60	60	60	61	61	61	61	61	62	61	61	62	61	61	62	70	75	73	61	73	75	61	61	61	60				
KLPP	GT13	117	118	135	127	127	127	127	124	123	124	124	124	123	123	123	119	128	123	123	123	124	124	124	124	119	124	124	127	124	123	119	128	123	124	124	124	124	127	126	125	110	110	125	125	126	126	119	115	
KLPP	GT14	113	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KLPP	GT15	132	131	139	154	154	158	139	7	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	152	123	120	138	141	138	137	128	125			
KLPP	ST17	191	174	132	134	133	133	130	57	57	57	55	53	54	53	55	53	55	57	55	53	53	53	53	53	53	53	53	57	55	53	54	54	51	51	51	51	53	53	55	133	126	120	130	133	130	130	128	124	
NPRI	BLK1	511	509	513	505	504	511	506	509	499	494	463	395	504	526	426	323	397	349	329	374	529	493	469	452	322	388	489	529	508	506	324	405	467	495	322	488	441	493	326	496	473	496	494	500	500	501	500	487	
NPRI	BLK2	511	509	515	506	505	512	506	512	511	513	508	416	398	398	387	386	311	308	302	305	355	511	512	508	503	317	317	479	512	511	492	515	509	511	485	318	318	319	504	511	511	505	512	511	510	510	496		
PCGP	PGRG	602	598	608	593	591	603	589	601	600	600	598	602	604	603	580	365	400	390	379	499	603	602	596	582	600	602	615	604	604	564	611	600	602	588	599	601	601	592	605	601	602	590	603	603	604	602	575		
PGLA	GT11	208	173	216	194	191	174	168	195	182	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGLA	GT12	229	196	237	216	214	197	190	217	206	187	233	175	175	175	170	175	181	181	179	179	180	181	181	179	176	180	181	182	181	181	174	182	180	181	167	169	171	171	174	174	171	221	168	238	217	242	218	174	
PGLA	ST10	234	211	240	223	234	2																																											

Daily MW Generation on Sunday

		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	
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	24	23	23	23	23	23	23	23	23	23	23	23	24	23	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	97	100	101	101	99	100	100	100	
KNYR	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	99	99	99	99	99	99	99	
KNYR	HY03		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	99	100	100	98	99	99	100	
KNYR	HY04		60	58	100	60	60	59	59	57	60	59	61	63	79	58	57	100	62	61	59	82	65	60	60	60	
LPIA	HY01		12	12	12	12	12	11	11	11	11	11	11	11	11	11	12	12	12	0	0	0	0	0	10	12	
LPIA	HY02		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	0	0	0	0	0	5	11	
MNOR	HY01		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6	4	4	
PGAU	HY01		21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	
PGAU	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	
PGAU	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	
PGAU	HY04		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	19	0	20	81	20	0	
SIHY	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	30	30	50	32	0	0	0	
SIHY	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	30	60	50	51	0	0	0	
SYPS	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	19	0	0	0	
SYPS	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	16	16	25	21	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	33	33	33	33	33	33	33	33	32	34	33	34	33	29	34	33	34	32	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	-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		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
UPIA	HY02		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro			188	164	208	166	166	164	164	162	165	164	166	169	186	184	180	207	191	166	165	190	172	145	145	143	
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	1	4	7	11	12	14	17	22	12	18	25	
CHLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	16	22	29	18	37	29	18	40	11	
GBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	26	26	37	35	35	35	37	
GNLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	13	21	28	35	35	45	42	39	46	
JSLs	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	20	26	35	41	43	50	41	44	
KKLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	18	27	30	35	39	43	34	43	
MCLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	14	24	27	25	41	34	42	45	34	
SPLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	12	21	20	35	23	55	57	41	
SSLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	16	18	27	22	30	33	42	39	
Total LSS			0	0	0	0	0	0	0	0	0	0	0	0	0	14	48	83	149	205	231	285	312	298	349	334	
PCUF	CUFG		5	5	4	5	4	5	5	5	5	3	6	8	5	5	4	4	6	6	6	6	6	5	5	5	6
PCUF	CUFK		4	6	5	5	4	5	5	7	4	4	4	6	5	5	4	4	5	6	4	6	6	4	5	4	5
Total Co-Gen			9	11	9	10	8	10	10	12	9	7	10	14	10	10	8	8	11	12	10	12	12	13	11	9	10
Total Gen			14553	14266	13911	13663	13318	13133	12924	12831	12644	12552	12425	12283	12385	12414	12267	11848	11556	11952	12177	12499	12923	13151	13311	13455	
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
TIE-HVDC			-30	-30	-28	-28	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-31	-30	-30	
TIE-PLTG			7	-5	-10	-3	16	-21	-9	23	31	43	0	-56	19	21	29	-3	-25	-24	40	9	35	18	29	31	
Interconnection			-22	-35	-38	-31	-12	-50	-37	-6	3	15	-29	-85	-11	-8	0	-31	-54	-53	11	-20	5	-12	0	1	
System Total			14587	14313	13961	13706	13342	13195	12973	12849	12653	12549	12466	12380	12408	12434	12279	11891	11622	12017	12178	12531	12930	13175	13323	13466	
SRev ST-Coal			189	188	533	498	478	490	435	474	482	494	490	557	513	528	514	592	839	643	447	370	535	507	473	489	

Daily MW Generation on Sunday

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		
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	0	0
SRev CCGT-Gas		397	531	338	467	460	460	579	697	784	563	532	916	848	821	972	1298	1227	1299	1341	1174	858	700	636	589	881	1043	939	706	583	440	724	706	696	666	922	961	1005	950	936	622	646	530	521	313	464	636	512	520	
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	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	0
SRev Co-Gen		1	-1	1	0	2	0	0	-2	1	3	0	-4	0	0	2	2	-1	-2	0	-2	-2	-3	-1	1	0	-1	-2	0	-1	0	1	1	1	-1	0	0	1	3	1	0	0	1	2	-4	2	3	1	2	
Syncon		1203	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1203	1203	1354	1203	1354	1354	1167	1167	1167	1167	1167	1263	1263	1263	1354	1354	1253	1102	1102	1253	1102	1253	1253	1253	1253	1253	1253	1253	1253	1253	1354	1354	1203			
Hydro		298	171	127	169	169	171	171	171	173	170	171	169	166	149	302	306	128	295	169	170	146	164	137	137	139	136	108	93	101	109	125	278	249	89	386	186	242	112	115	129	187	186	170	335	183	119	138	274	
S.Reserve Total		2088	2243	2353	2488	2463	2475	2539	2694	2794	2584	2547	2992	2881	2852	2993	3401	3547	3438	3311	3066	2704	2535	2412	2383	2678	2916	2794	2543	2518	2385	2588	2574	2539	2508	2891	2884	2982	2815	2801	2262	2281	2158	2126	2075	2076	2303	2262	2296	