

Daily System Generation Summary on Sunday

Sunday, July 07, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,392 MW
Distillate	0 MW
Total TNB	2,392 MW
Total IPP	15,191 MW
Total Co-Gen	0 MW
Total System	20,507 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,815	3.00 %
Gas	32,489	9.94 %
Total TNB	42,304	12.94 %
ST-Coal	213,780	65.39 %
LSS	1,847	0.56 %
Gas	67,971	20.79 %
Total IPP	283,598	86.75 %
Co-Gen	1,740	0.53 %
Total Co-Gen	1,740	0.53 %
Total Generation	327,642	100.22 %
HVDC	723	0.22 %
Interconnection	723	0.22 %
Net Energy	326,919	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	16,852 MW
TNB Generation	2,264 MW
IPP Generation	13,028 MW
Spinning Reserve	1,485 MW
Maximum Demand	15,389 MW
Net Energy	326,919 MWH
Load Factor	88.52 %

Fuel Cost

Total Cost:	57,709,777.24 RM
Cost per Unit	17.59 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	400
Hydro	295
Syncon	888
Thermal	313
Total	1,896

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	199
Total TNB	229
NPRI	154
PGLA	89
PLPS	55
SGRI	49
SKSP	7
YPKA	33
Total IPP	387
Total Gas	616
Total Gas Required	616

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	14820	14250	13685	13176	12937	12568	12705	12297	11797	12389	12925	13383	13444	13359	13684	13879	14013	13853	13503	13705	15169	15362	15271	15028

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, July 12, 2019 9:53:14 AM

(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	U001	693	692	692	692	691	698	692	694	691	693	693	693	689	693	693	691	694	489	377	346	352	351	351	350	350	353	351	351	351	351	353	349	350	351	353	351	352	353	351	351	352	354	357	539				
JMAH	U002	694	693	692	696	694	694	692	692	695	696	692	695	693	694	693	693	693	693	693	694	695	691	693	694	692	693	693	689	694	694	692	692	694	695	693	697	689	695	691	691	694	692	689	691	690	690	692	
JMHE	U002	506	510	509	507	507	508	510	508	510	508	504	506	509	511	508	509	509	507	509	513	509	508	508	508	507	511	510	509	510	510	514	509	510	505	506	510	509	510	509	508	506	510	510	514	509	510	507	507
JMJG	U001	670	666	669	670	660	662	669	668	671	672	671	673	677	678	668	677	666	669	673	671	660	667	677	670	668	667	668	679	667	673	668	673	668	663	670	670	665	662	671	667	673	669	675	666	668	662	666	
JMJG	U003	654	661	651	649	653	654	651	654	664	671	667	668	666	670	668	665	670	668	672	668	669	666	671	666	668	664	672	669	664	670	668	666	668	668	662	662	668	662	662	664	662	658	659	662	665	662	672	
JMJG	U004	976	962	904	903	905	904	840	790	787	787	788	789	787	790	786	786	788	790	788	789	788	785	785	902	902	903	902	905	906	903	906	905	901	905	902	906	906	904	904	979	978	981	981	979	983	976	976	977
JMJG	U005	985	980	928	902	906	900	804	785	782	781	781	782	783	785	782	781	779	782	782	782	780	780	779	857	903	901	901	900	903	901	900	899	900	901	900	900	900	902	902	980	976	979	981	979	978	976	977	976
PKLG	U003	283	281	284	283	284	282	283	279	282	281	276	204	206	207	279	281	233	212	275	281	279	281	283	281	282	281	281	281	279	283	283	281	282	283	281	282	283	282	283	281	282	286	284	284	284	284	284	
PKLG	U005	468	469	469	468	468	470	470	468	471	468	427	354	361	361	436	467	406	360	440	471	470	468	470	470	471	471	469	468	472	471	469	470	470	470	470	470	465	468	471	470	470	470	471	471	470	470	470	
PKLG	U006	472	471	469	468	470	469	468	472	474	471	469	470	469	367	356	359	359	360	357	377	360	347	363	425	463	469	471	474	474	471	470	468	470	474	470	469	471	469	473	472	472	466	474	468	472	472	471	468
TBIN	U001	680	680	680	680	681	680	681	681	690	692	691	690	690	687	691	692	689	690	690	690	690	690	689	689	689	691	690	691	691	689	690	692	688	689	691	691	689	689	689	690	692	690	692	687	692	690	689	693
TBIN	U002	684	683	682	684	684	682	685	683	691	695	693	693	693	693	692	692	695	693	693	694	694	692	695	693	693	692	691	693	691	694	692	693	693	693	693	693	695	692	696	693	692	693	691	692	693	693	687	694
TBIN	U003	680	683	682	682	685	683	685	685	695	694	691	692	691	692	691	691	692	694	694	693	691	689	693	691	690	692	694	692	694	692	691	692	694	692	691	692	693	693	691	692	692	692	692	693	692	692	692	
TBIN	U004	985	980	970	906	904	903	833	802	801	801	802	802	802	803	801	802	804	809	806	808	804	803	803	874	903	901	900	904	902	904	901	901	903	905	905	903	903	906	903	985	982	982	986	983	982	982	983	981
Total ST-Coal		9430	9411	9281	9190	9192	9189	8963	8861	8904	8910	8845	8711	8716	8631	8744	8787	8678	8416	8449	8476	8440	8422	8458	8769	8883	8888	8893	8909	8895	8902	8897	8894	8896	8895	8889	8892	8893	8886	8894	9134	9112	9127	9131	9120	9125	9125	9107	9311
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	
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	
GLGR	GT02	95	95	96	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	105	106	105	105	105	105	105	102	95	95	95	106	107	106	108	107	108	107	108	108	
GLGR	ST1C	40	39	39	39	39	39	39	39	39	39	40	39	39	39	39	39	39	40	40	40	39	39	39	40	40	39	38	40	43	45	44	44	45	45	45	40	40	40	45	45	45	45	45	45	46	46	46	46
NPRI	BLK1	502	506	503	502	502	500	505	506	502	437	452	510	525	529	353	320	314	488	478	515	513	508	514	497	496	440	500	517	515	515	514	514	517	503	515	515	514	502	515	515	515	518	516	517	516	516	512	505
NPRI	BLK2	503	508	505	504	504	501	507	505	505	434	459	512	534	533	359	312	309	482	472	517	514	511	515	499	500	438	504	518	516	514	516	517	519	506	517	519	504	517	515	518	523	510	517	518	512	507		
PCGP	PGRG	598	604	609	596	603	594	603	602	602	592	584	585	607	605	596	243	239	263	589	605	600	596	603	583	579	592	587	607	603	603	602	602	605	588	601	603	603	587	604	603	602	610	604	606	602	611	596	590
PGLA	GT11	211	216	212	192	162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	146	217	158	165	162	168	216	221	224	224	222	225	228	216	176	162	168	178	216	231	232	233	232	232	232	232	
PGLA	GT12	216	223	218	198	168	202	226	217	210	153	153	164	186	182	156	152	151	169	155	158	155	202	202	222	163	170	167	173	222	228	228	230	228	228	232	221	180	168	173	183	221	234	235	236	235	235	237	239
PGLA	ST10	240	228	235	231	92	94	110	110	107	91	90	93	90	95	90	87	88	95	90	90	92	97	149	247	212	207	205	207	242	245	249	247	249	254	253	240	223	205	208	208	239	254	256	256	256	256	256	
PLPS	GT11	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	72	112	141	136	137	134	135	133	134	131	126		
PLPS	GT12	149	145	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	138	141	137	139	137	138	138	134		
PLPS	GT13	140	137	137	140	139	139	139	140	125	125	124	124	125	125	125	123	123	125	123	124	125	125	125	125	124	125	125	125	134	134	134	136	134	134	135	133	133	112	136	131	134	130	132	130	130	133	67	
PLPS	ST18	192	170	106	61	60	60	60	60	57	58	58	59	58	58	60	59	58	58	59	59	58	59	59	59	59	59	60	60	59	61	61	61	60	60	60	60	60	116	134	143	211	212	213	212	211	210	211	186
SGRI	GT21	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	135	131	133	133	115	110	125	114	131		
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	140	110	113	141	138	140	118	115	128	118	64	
SGRI	GT23	129	123	126	125	125	125	125	127	64	63	65	63	67	66	67	63	59																															

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
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	24	23	23	23	24	23	23	23	24	24	23	22	24	23	24	24	23	24	24	24	24	24	23
KNYR	HY01	0	0	0	0	0	0	0	96	97	96	96	97	96	95	96	96	96	95	93	96	0	0	0	0
KNYR	HY02	0	0	0	0	0	0	0	96	95	95	95	95	95	95	95	95	95	95	94	95	56	61	60	58
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	97	97	97	97	97	97	97	97	97	97	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	62	67	61	60	59	60	69	61	60	96	97	97	97	97	95	93	97	96	97	97	95	94	96	0
LPJA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4
PGAU	HY01	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	20	21	20	20
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	21	-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
SIHY	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	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	32	33	33	32	33	32	32	33	32	31	31	32	33	32	31	30	32	32	33	32	33	32	32	32
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	88	-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	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		251	169	162	160	160	160	170	161	181	485	485	484	486	508	485	481	528	540	541	541	566	587	567	560
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
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	43	43	43	43	43	43	44	43	43	42	42	41	44	44	44	42	42	43	41	41	41	41	41	41
PCUF	CUFK	38	31	29	31	31	30	29	29	32	32	31	31	31	31	31	30	30	31	31	31	30	30	31	31
Total Co-Gen		81	74	72	74	74	73	73	72	75	74	73	72	75	75	73	73	73	71	72	72	71	71	72	70
Total Gen		14878	14520	14222	13955	13726	13518	13264	13078	12939	12830	12606	12629	12736	12677	12340	11920	11837	12132	12453	12617	12918	13155	13373	13557
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	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		34	-2	-52	38	19	38	65	-30	-21	-2	14	21	9	-22	20	40	16	-9	47	0	-16	3	-11	44
Interconnection		65	29	-21	69	48	67	95	0	9	28	45	51	39	8	51	70	47	22	77	30	14	33	18	73
System Total		14820	14498	14250	13893	13685	13458	13176	13085	12937	12809	12568	12585	12705	12677	12297	11858	11797	12119	12389	12602	12925	13146	13383	13527
SRev ST-Coal		180	199	324	414	414	417	415	417	367	360	427	445	448	419	405	366	439	639	727	351	383	396	360	446
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		463	354	513	399	630	474	512	242	447	865	1023	864	767	763	1190	1651	1686	1164	911	800	520	559	376	651

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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