

Daily System Generation Summary on Sunday

Sunday, September 29, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,214 MW
Distillate	0 MW
Total TNB	2,214 MW
Total IPP	14,521 MW
Total Co-Gen	65 MW
Total System	19,558 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,035	2.51 %
Gas	43,094	13.44 %
Total TNB	51,129	15.94 %
ST-Coal	182,334	56.86 %
LSS	2,031	0.63 %
Gas	84,347	26.30 %
Total IPP	268,712	83.80 %
Co-Gen	1,094	0.34 %
Total Co-Gen	1,094	0.34 %
Total Generation	320,935	100.09 %
PLTG	-452	-0.14 %
HVDC	726	0.23 %
Interconnection	274	0.09 %
Net Energy	320,661	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:	20:30:00 Hour
Total Set On Bus	16,550 MW
TNB Generation	2,666 MW
IPP Generation	12,065 MW
Spinning Reserve	1,774 MW
Maximum Demand	14,752 MW
Net Energy	320,661 MWH
Load Factor	90.57 %

Fuel Cost

Total Cost:	59,599,198.33 RM
Cost per Unit	18.55 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	505
Hydro	302
Syncon	1,009
Thermal	366
Total	2,182

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	53
PAKA	10
PGPS	39
TJGS	210
Total TNB	312
CBPS	53
KLPP	94
PGLA	93
PLPS	64
SGB3	34
SGRI	55
SKSP	51
YPKA	82
Total IPP	526
Total Gas	838

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required 838

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	14495	13968	13299	12894	12622	12311	12395	11951	11544	12196	13013	13428	13480	13537	13744	13724	13627	13382	13229	13772	14670	14747	14479	14242

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, October 11, 2019 11:24:10 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	693	694	691	693	692	694	693	692	693	694	694	693	690	692	691	692	693	692	694	691	691	694	693	692	693	692	693	691	652	653																		
JMAH	U002	687	697	694	692	694	694	697	692	695	694	693	697	695	694	695	689	703	693	695	694	696	693	695	694	695	693	693	702	693	694	693	695																	
JMHE	U001	980	980	981	982	984	980	771	782	781	780	780	778	779	778	785	780	779	774	780	779	782	807	891	889	892	886	892	888	889	884	892	889	892	894	891	891	887	937	953	952	948	950	949	947	953	951	950		
JMHE	U002	499	499	500	501	501	498	498	502	500	500	501	500	501	498	503	500	501	497	501	498	502	499	500	498	499	497	501	499	502	499	501	500	496	497	501	502	498	500	498	497	500	500	499						
JMJG	U001	643	636	634	640	634	639	638	651	660	672	660	633	639	645	668	668	683	674	670	663	666	661	665	664	664	660	665	655	657	662	662	657	659	662	660	662	660	660	654	654	652	662	662	662	661	662			
JMJG	U003	667	660	654	657	654	660	661	655	657	657	658	658	660	657	657	666	662	660	660	665	666	657	659	663	665	662	662	662	667	661	662	662	665	662	660	662	662	662	663	662	662	668	662	652	576				
JMJG	U004	977	979	978	978	977	979	919	833	788	782	786	785	785	785	786	785	785	785	783	897	896	896	897	896	895	899	899	897	897	897	897	897	896	895	896	896	896	917	953	956	956	955	955	955	956	956	956		
JMJG	U005	981	978	981	977	982	983	874	777	782	783	783	789	785	787	785	787	787	786	782	787	785	878	892	894	888	890	894	892	887	890	887	894	889	892	891	887	891	889	902	958	953	953	954	952	952	949	950		
PKLG	U003	283	284	281	280	279	285	281	282	283	282	282	283	285	284	284	284	283	285	285	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PKLG	U004	280	285	281	280	282	280	279	278	282	282	281	281	280	280	279	280	281	280	281	280	280	280	280	282	281	281	281	279	274	280	283	280	281	281	281	280	280	283	281	279	279	281	279	282	283	280			
PKLG	U005	468	471	471	471	470	470	470	470	470	471	469	470	470	468	468	470	470	469	471	470	470	470	468	471	471	470	470	471	471	477	472	472	471	468	469	467	469	467	468	467	471	470	468	470	471	471	470		
TBIN	U004	981	982	981	980	982	984	922	832	782	781	783	783	782	782	783	784	784	784	784	784	890	890	890	890	890	890	890	890	890	890	890	890	893	893	892	893	892	891	891	904	952	952	952	953	954	953	951	952	952
Total ST-Coal		8139	8144	8130	8129	8132	8144	7704	7447	7372	7377	7367	7353	7351	7357	7373	7400	7404	7382	7385	7387	7177	7298	7442	7534	7528	7532	7528	7529	7527	7522	7516	7535	7533	7537	7526	7527	7531	7509	7620	7779	7767	7758	7762	7775	7769	7774	7720	7643	
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		
CBPS	BLK2	365	365	361	357	357	358	369	368	368	362	361	360	363	362	361	215	223	322	360	352	364	363	367	359	354	352	356	361	351	358	355	355	359	359	366	357	354	357	362	357	358	361	361	359	360	360	360	360	
GLGR	GT01	100	101	103	102	101	100	89	68	69	70	69	70	68	69	69	68	69	70	69	87	99	86	93	85	85	91	86	93	88	100	92	97	93	85	85	85	84	85	85	96	94	97	93	92	89	92	92	68	
GLGR	GT02	101	101	101	102	101	101	88	68	69	70	69	69	69	69	69	68	68	86	98	85	93	84	85	90	85	93	89	100	93	98	94	85	85	85	86	84	85	95	93	98	94	92	89	91	93	68			
GLGR	ST1C	90	89	90	90	90	89	86	70	70	69	70	70	70	70	70	70	69	70	80	87	82	86	83	82	84	83	85	84	87	85	85	87	82	81	81	81	82	81	85	85	85	84	86	84	84	84	70		
KLPP	GT13	132	133	138	133	132	113	116	117	119	112	112	113	113	103	68	68	69	111	119	120	121	128	129	130	115	115	126	117	132	125	129	123	133	116	115	115	112	111	129	123	133	125	133	121	128	130	113		
KLPP	GT14	147	154	153	98	0	0	0	0	0	0	0	0	0	0	0	0	58	148	149	151	149	122	124	137	131	145	135	139	139	142	124	122	124	123	123	137	131	148	136	148	131	138	140	122					
KLPP	GT15	147	150	154	154	152	122	126	125	128	122	123	123	124	123	91	79	80	85	116	128	132	131	139	143	144	124	125	136	129	148	137	138	134	141	124	124	124	124	123	137	130	146	134	146	130	138	139	123	
KLPP	ST17	196	196	196	187	128	113	117	117	119	113	115	115	113	117	105	81	79	85	118	126	116	190	194	194	196	186	186	190	186	194	194	190	190	195	183	186	186	186	186	191	191	191	191	195	186	191	191	183	
PAKA	GT4A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	75	75	75	74	75	74	74	75	75	95	92	93	92	92	90	90	90	90	90		
PAKA	ST4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	36	36	39	40	41	40	39	39	39	39			
PCCP	PGRG	601	602	603	601	599	600	611	612	620	601	599	599	604	596	589	591	604	600	600	590	604	600	603	592	592	595	597	595	581	602	590	591	589	599	599	599	595	591	594	591	602	600	597	603	601	592	599	603	599
PGLA	GT11	212	176	68	0	0	0	0	0	0	0	0	0	0	0	0	0	114	138	211	213	213	214	211	211	211	212	213	210	214	212	211	209	214	199	203	204	175	211	213	212	213	214	214	211	214	214	213		
PGLA	GT12	220	182	184	235	235	234	234	235	235	235	236	235	236	234	235	162	161	162	172	220	221	220	219	218	219	219	219	219	219	219	219	221	206	210	212	183	217	221	222	220	221	221	218	222	220	221			
PGLA	ST10	238	217	97	115	116	116	115	115	117	117	116	116	116	116	116	90	90	87	87	227	244	241	243	241	241	241	242	239	237	241	242	239	240	224	233	228	215	236	239	236	236	238	239	236	236	237	237		
PGPS	GT3A	87	88	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	80	93	94	65	89	89	89	65	65	66	66	65	65	66	66	66	66	66	66	88	88	88	88	89	88	89	88	
PGPS	GT3B	89	89	88	89	89	89	89	90	89	89	89	89	89	89	89	71	71	71	72	71	71	71	79	94	94	66	89	89	89	67	66	66	66	66	66	67	67	67	67	89	88	89	89	89	89	89	89	89	
PGPS	ST3C	84	84	84	40	40	40	40	41	41	40	40	40	40	40	39	31	30	30	30	31	32	31	46	90	92	63	84	86	86	62	60	60	61	61	59	58	58	58	58	81	82	82	83	83	83	83	83	83	
PLPS	GT11	69	68	69	66	64	65	67	69	70	64	65	63	65	65	62	61	64	72	115	124	129	129	127	126	12																								

Daily MW Generation on Sunday

[illegible]

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		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	62	102	172	223	257	247	335	366	313	380	357	313	341	268	227	172	117	125	77	64	37	14	1	1	0	0	0	0	0	0	0	0	0
PCUF	CUFG	20	22	22	22	22	22	24	23	23	23	22	22	23	22	23	24	22	23	22	20	20	18	19	18	20	19	19	19	21	22	21	20	20	21	21	22	23	21	21	21	21	22	22	21	22	22	21		
PCUF	CUFK	36	24	25	25	26	24	24	25	23	25	23	24	23	25	22	24	24	23	23	24	24	25	22	24	24	23	24	25	23	24	23	24	24	24	25	23	24	23	24	24	23	24	24	26	24	24	24	27	
Total Co-Gen		56	46	47	47	48	46	46	49	46	48	46	46	45	48	44	47	48	45	46	46	44	45	40	43	42	43	43	44	42	45	45	45	44	44	46	44	46	46	45	45	44	45	46	48	45	46	46	48	
Total Gen		14511	14206	13959	13557	13311	13289	12850	12761	12617	12461	12356	12282	12374	12319	12024	11557	11549	11980	12232	12522	12990	13152	13492	13571	13527	13479	13560	13737	13760	13885	13727	13730	13632	13722	13378	13226	13209	13255	13850	14681	14674	14776	14728	14666	14497	14331	14214	13901	
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		32	29	31	31	30	30	31	31	30	30	31	31	30	30	29	29	30	30	30	31	31	29	29	31	31	30	30	30	30	31	31	30	30	30	30	30	30	30	31	31	30	30	31	30	30	31	31		
TIE-PLTG		-12	4	-36	-42	-14	-18	-71	-80	-31	-46	18	-29	-48	5	47	-3	-22	14	7	1	-50	-42	37	-14	21	18	-3	-38	-10	10	-24	-53	-22	-9	-31	-10	-47	-14	50	-39	-24	-3	-47	-52	-8	-34	-55	-58	
Interconnection		20	33	-5	-11	16	12	-40	-49	-1	-15	49	2	-17	35	76	26	8	43	39	32	-20	-12	68	17	51	48	27	-8	20	40	7	-22	8	21	-1	20	-17	16	81	-8	7	27	-16	-21	22	-4	-24	-28	
System Total		14495	14177	13968	13572	13299	13281	12894	12814	12622	12480	12311	12284	12395	12288	11951	11534	11544	11940	12196	12493	13013	13167	13428	13558	13480	13435	13537	13749	13744	13849	13724	13755	13627	13704	13382	13209	13229	13242	13772	14692	14670	14752	14747	14691	14479	14339	14242	13933	
SRev ST-Coal		134	129	143	144	141	129	414	449	446	437	445	467	460	461	440	443	437	474	464	469	580	482	482	478	475	475	474	480	477	484	481	480	473	474	486	480	477	495	419	260	112	121	117	104	150	145	179	256	
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		
SRev CCGT-Gas		655	671	688	581	678	535	515	556	514	638	671	730	652	714	1019	1527	1611	1370	983	666	441	399	367	459	442	562	455	363	575	480	611	592	633	556	843	980	1120	1039	807	492	542	412	465	485	646	652	571	809	
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		
SRev Co-Gen		9	19	18	18	17	19	19	16	19	17	19	19	20	17	21	18	17	20	19	19	21	20	25	22	23	22	22	21	23	20	20	20	21	21	19	21	19	19	20	20	21	20	19	17	20	19	19	17	
Syncon		728	728	728	915	915	764	915	764	915	915	1102	1102	1102	1102	1102	1102	951	1102	1052	1203	1016	1203	1203	1077	1077	1077	1077	926	1077	926	1077	1077	1077	1077	1077	1077	1077	1077	1077	976	825	976	976	850	850	976	976	976	
Hydro		247	245	245	246	246	377	245	376	333	372	245	246	244	246	249	248	380	247	406	277	196	224	276	276	277	277	276	405	280	404	277	279	278	277	277	278	277	277	285	283	377	246	246	336	335	276	280	280	
S.Reserve Total		1773	1792	1822	1904	1997	1824	2108	2161	2227	2379	2482	2564	2478	2540	2831	3338	3396	3213	2924	2634	2254	2328	2353	2312	2294	2413	2304	2195	2432	2314	2466	2448	2482	2405	2702	2836	2970	2907	2608	2031	1877	1775	1823	1792	2001	2068	2025	2338	