

Daily System Generation Summary on Sunday

Sunday, September 22, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,339 MW
Distillate	0 MW
Total TNB	2,339 MW
Total IPP	14,364 MW
Total Co-Gen	65 MW
Total System	18,562 MW

Generation Mix

Type	MWh	Percentage
Hydro	5,579	1.66 %
Gas	32,950	9.79 %
Total TNB	38,529	11.45 %
ST-Coal	170,940	50.80 %
ST-Gas	2,811	0.84 %
LSS	1,966	0.58 %
Gas	119,718	35.58 %
Total IPP	295,435	87.80 %
Co-Gen	1,401	0.42 %
Total Co-Gen	1,401	0.42 %
Total Generation	335,365	99.67 %
PLTG	-427	-0.13 %
HVDC	-697	-0.21 %
Interconnection	-1,124	-0.33 %
Net Energy	336,489	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:	21:00:00 Hour
Total Set On Bus	17,691 MW
TNB Generation	2,012 MW
IPP Generation	13,738 MW
Spinning Reserve	1,883 MW
Maximum Demand	15,865 MW
Net Energy	336,489 MWH
Load Factor	88.37 %

Fuel Cost

Total Cost:	65,362,103.08 RM
Cost per Unit	19.47 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	686
Hydro	335
Syncon	1,059
Thermal	298
Total	2,378

Time	Weather	Temperature
Afternoon	Haze	34
Morning	Haze	28

Gas Usage

Station	(mmscfd)
GLGR	52
PAKA	46
PGPS	46
TJGS	105
Total TNB	249
CBPS	53
KLPP	108
MPSS	51
NPRI	79
PGLA	107
PLPS	84
SGB3	78
SGRI	113
SKSP	52
YPKA	63
PKLG	27
Total IPP	815
Total Gas	1,065

Total Gas Required 1,065

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	15112	14452	13807	13531	13113	12842	12831	12444	11947	12504	13297	13814	13797	13778	14260	14499	14675	14459	14072	14611	15742	15865	15608	15288

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, October 10, 2019 3:43:45 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	U001	693	693	693	693	694	695	692	692	693	690	692	691	692	693	693	691	696	692	693	691	693	693	693	689	691	694	693	692																				
JMAH	U002	694	695	694	693	692	694	696	693	695	693	694	695	693	692	693	691	694	694	692	693	695	693	693	693	694	694	693	695	691	689	693	694	695	694														
JMHE	U001	983	984	967	779	780	781	781	782	782	780	781	780	779	779	781	778	781	782	780	777	908	909	911	909	911	910	909	912	911	909	911	915	911	912	911	910	912	961	977	981	978	980	978	980	982	983	976	
JMHE	U002	752	751	753	747	750	753	749	753	752	751	751	748	752	749	747	751	748	752	752	750	748	750	749	752	751	750	751	753	751	750	750	751	752	751	749	752	748	750	750	751	750	752	749					
JMJG	U001	666	671	667	669	667	666	668	668	668	664	668	664	667	668	666	666	667	667	666	668	665	667	667	667	666	666	670	666	667	666	667	667	666	667	662	667	666	666	662	665	667	668	665	667	667	661	667	667
JMJG	U003	660	673	662	668	662	666	657	668	667	662	662	662	665	666	666	664	664	668	662	665	664	662	665	664	662	660	664	666	666	658	666	661	667	662	667	663	660	660	668	664	664	664	668	663	666	585	589	585
JMJG	U004	977	977	972	886	808	810	805	806	808	810	809	809	808	809	809	810	809	808	808	808	809	914	914	914	914	915	916	914	915	915	915	915	914	914	915	914	914	913	979	979	983	980	981	982	983	980	983	979
PKLG	U003	279	285	281	285	281	281	283	278	281	280	280	282	282	283	282	284	283	284	283	284	281	282	281	284	284	283	280	276	280	281	283	282	279	281	284	285	280	279	282	279	282	278	284	282				
PKLG	U004	281	281	281	280	279	280	280	280	278	279	282	281	280	281	218	206	205	204	206	207	207	207	206	205	222	248	250	248	245	253	258	253	251	253	252	253	252	252	251	252	252	252	253	275	281	279	280	
PKLG	U005	472	471	471	471	468	470	471	473	471	471	468	470	470	470	468	470	470	469	470	473	473	471	470	470	469	470	470	468	464	471	470	469	470	470	468	470	470	471	468	470	468	468	470	470	470	470		
TBIN	U004	982	981	978	887	799	783	781	782	782	782	782	781	783	783	783	783	782	781	782	782	783	849	912	913	913	910	913	912	914	912	913	913	914	911	914	914	912	914	927	982	983	980	983	983	983	981	984	981
Total ST-Coal		7439	7462	7419	7058	6880	6879	6863	6875	6877	6862	6869	6863	6873	6874	6806	6801	6793	6805	6798	6797	6797	7100	7160	7161	7175	7195	7206	7208	7210	7205	7209	7202	7216	7205	7215	7204	7201	7206	7340	7410	7416	7407	7413	7401	7441	7356	7379	7355
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	
PKLG	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	31	48	83	143	225	287	240	167	152	147	188	199	250	249	252	227	144	144	144	144	144	174	260	283	286	225	229	251	204	204	
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	358	357	362	361	362	366	360	362	365	365	361	364	359	359	356	296	226	333	361	362	357	362	359	362	362	360	365	357	365	359	359	361	362	362	359	359	361	360	363	362	362	364	363	361	360	359	362	360
GLGR	GT01	103	102	102	101	102	104	103	68	69	69	67	69	69	69	69	69	69	68	85	84	86	86	70	67	69	69	73	85	88	86	87	98	91	85	70	69	70	86	100	101	101	101	100	102	101	100	100	
GLGR	GT02	103	104	103	104	103	104	104	67	68	68	68	68	69	69	68	68	69	68	86	86	85	85	69	68	68	68	75	85	86	86	84	97	89	84	69	69	70	86	101	100	101	101	100	101	101	101	100	
GLGR	ST1C	93	93	93	93	92	93	92	75	70	71	70	71	71	70	71	70	70	70	81	81	81	81	77	71	70	71	72	81	82	82	80	89	86	82	72	72	71	78	91	91	90	90	90	90	90	90	90	
KLPP	GT13	133	136	115	137	134	137	136	115	130	117	136	134	136	134	114	73	68	68	72	106	130	112	112	121	111	118	117	125	126	132	133	133	132	134	133	133	129	116	132	135	135	135	133	134	134	134	134	133
KLPP	GT14	143	144	128	148	144	157	151	122	140	125	154	154	149	148	123	79	77	76	77	109	138	122	132	135	118	131	130	146	149	147	152	152	153	152	142	156	139	128	147	153	149	154	153	145	149	149	153	144
KLPP	GT15	145	146	126	147	144	152	150	125	139	128	150	148	147	144	125	109	80	77	78	116	137	122	122	130	120	127	127	143	143	147	148	149	151	143	149	137	123	147	147	148	150	153	150	146	148	152	144	
KLPP	ST17	197	201	189	201	201	202	205	189	197	193	201	201	201	189	161	145	147	147	181	202	190	190	194	198	190	194	202	202	202	202	202	202	202	200	202	186	194	199	199	199	199	200	194	198	198	194		
MPSS	GT01	70	68	70	69	69	71	70	71	70	72	70	71	70	70	69	71	69	70	68	69	69	68	67	70	68	69	95	94	102	100	101	101	100	69	70	69	69	99	103	103	104	104	104	103	104	105		
MPSS	GT02	72	73	71	70	71	73	71	73	72	72	73	72	72	74	73	72	71	74	70	71	72	71	70	70	70	71	71	96	94	100	101	100	101	100	68	71	70	71	97	104	103	103	103	101	103	103	103	
MPSS	ST01	66	66	65	66	65	66	65	65	65	64	65	64	64	64	64	64	64	64	65	65	66	66	67	67	67	67	67	98	99	101	107	107	107	107	71	68	67	68	93	110	111	111	111	111	110	110	109	
NPRI	BLK2	511	512	512	512	512	518	508	512	514	509	512	515	511	507	502	505	436	503	504	506	498	503	502	507	505	506	506	511	508	507	505	509	506	507	508	508	505	506	508	507	509	507	505	509	508	508	507	498
PAKA	GT4A	85	85	85	85	84	85	85	84	84	85	85	85	84	85	85	85	84	84	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	84	85	90	88	87	86	87	86	87	87	87	
PAKA	GT4B	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	80	78	78	78	78	78	78	78		
PAKA	ST4C	80	80	80	80	80	80	80	80	80	80	80	80	80	80	79	79	79	79	80	81	81	81	81	81	82	82	82	82	82	82	82	82	82	82	82	82	82	82	81	81	84	83	83	83	83	83	83	82
PCGP	PGRG	600	599	601	602	601	610	601	603	602	604	604	601	604	600	591	596	599	599	600	603	592	600	599	602	599	603	602	608	603	603	602	606	604	602	603	604	604	605	602	601	604	602	601	603	599	604	601	593
PGLA	GT11	210	211	204	209	212	216	216	209	205	207	215	215	212	212	177	164	197	175	193	168	206	166	164	177	168	175	167	215	214	206	214	214	214	214	214	212	212	165	213	213	213	214	214	214	214	214	212	
PGLA	GT12	218	215	211	217	219																																											

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	
SGRI	GT13	133	126	133	132	132	133	110	107	67	68	67	66	67	67	66	68	67	67	67	107	111	107	109	123	108	116	108	112	109	110	128	130	127	110	106	107	107	108	111	108	134	134	133	133	120	131	115	122	
SGRI	ST14	211	213	174	150	150	149	133	132	104	102	104	105	104	102	99	100	106	101	105	133	137	132	134	137	134	138	133	135	138	131	147	149	147	132	131	135	131	134	129	138	144	146	146	148	140	142	138	145	
SGRI	GT21	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67	116	132	132	132	135	134	116	131	115	129		
SGRI	GT23	139	139	109	110	110	112	113	109	110	109	110	109	111	109	106	110	109	109	109	112	109	109	109	112	109	112	109	112	109	136	137	136	136	136	136	108	107	110	114	138	134	141	141	141	112	129	113	130	
SGRI	ST24	120	66	59	60	60	62	61	60	60	59	60	59	60	59	60	59	58	59	62	62	57	61	61	59	60	60	60	60	60	67	66	67	69	69	69	61	58	108	129	143	142	140	143	132	134	124	133		
SKSP	BLK1	299	296	288	303	305	317	319	296	263	222	290	290	294	292	219	219	247	220	236	226	265	249	249	263	243	223	338	303	286	300	317	315	309	299	309	288	221	242	300	296	307	308	304	296	291	288	286		
TJGS	GT1A	224	222	227	226	225	223	224	222	226	224	225	223	222	226	225	143	143	187	228	194	219	202	213	228	226	227	227	217	218	219	220	218	223	216	218	219	220	210	222	221	217	219	218	221	217	220	222		
TJGS	GT1B	218	217	220	219	218	218	219	217	218	218	217	219	216	217	219	136	139	185	222	188	214	196	210	216	216	215	214	214	211	214	216	215	212	214	212	214	213	211	214	215	213	215	213	214	215	215	217	218	
TJGS	ST1C	247	247	247	247	247	247	247	244	244	244	244	244	244	244	181	177	213	247	205	247	239	245	245	249	247	248	248	245	245	245	245	245	245	245	245	245	245	243	243	243	243	243	243	243	243	243	243		
YPKA	GT11	114	113	113	113	114	6	0	0	0	0	0	0	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	108	66	115	116	115	116	115	115	115			
YPKA	GT12	135	137	135	135	135	137	133	99	66	67	67	66	66	66	66	67	66	67	67	67	66	105	102	81	67	67	66	68	106	119	119	120	118	117	117	117	117	103	67	133	133	134	134	136	138	136	139		
YPKA	ST10	119	119	119	119	117	59	58	48	32	32	32	31	32	32	31	31	32	31	32	32	47	49	42	34	32	31	32	49	54	55	54	55	54	54	52	116	80	117	118	118	119	119	119	119	119	119			
YPKA	GT21	133	134	132	133	134	133	130	134	134	133	65	65	65	65	65	65	65	65	65	65	65	105	103	65	65	65	65	66	105	117	117	118	118	117	117	117	65	66	123	123	123	123	123	123	123	122	122		
YPKA	ST20	64	65	64	65	65	63	64	64	64	64	38	38	38	38	38	38	38	38	38	38	38	38	48	49	39	39	38	38	39	49	56	56	56	55	56	55	55	55	39	38	58	58	58	58	59	58	59	58	
Total CCGT-Gas		7380	7069	6783	6862	6675	6597	6422	6088	5953	5846	5684	5691	5663	5652	5384	4940	4870	5096	5310	5670	6010	5883	5908	5943	5794	5844	5796	6134	6319	6406	6609	6626	6665	6593	6510	6325	6340	6428	6715	7429	7488	7519	7512	7528	7326	7417	7297	7362	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BSIA	HY02	23	23	23	23	17	17	17	16	17	17	17	16	16	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	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	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	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	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
KNRG	HY01	23	23	23	23	24	24	24	23	23	23	23	23	23	24	23	23	23	23	23	23	23	23	23	23	23	24	24	24	23	24	24	24	23	24	23	24	23	23	23	24	24	23	23	23	23	23			
KNYR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	59	60	59	59	60	61	60	61	63	63	62	62	61	67	60	60	62	67	95	75	95	71	59	60	59	
KNYR	HY03	55	55	55	54	55	55	54	55	55	55	55	55	55	55	55	55	54	55	55	55	55	55	54	0	0	0	0	0	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	55	55	61	61	55	96	96	96	61	0	
KNYR	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	19	-1	60	60	59	59	97	97	97	-1	-1			
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3																																

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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