

Daily System Generation Summary on Tuesday

Tuesday, April 16, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,516 MW
Distillate	0 MW
Total TNB	2,516 MW
Total IPP	16,608 MW
Total Co-Gen	0 MW
Total System	21,626 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,528	2.19 %
Gas	48,747	12.52 %
Total TNB	57,275	14.71 %
ST-Coal	196,505	50.47 %
ST-Gas	7,180	1.84 %
LSS	1,546	0.40 %
Gas	125,267	32.17 %
Total IPP	330,498	84.88 %
Co-Gen	1,743	0.45 %
Total Co-Gen	1,743	0.45 %
Total Generation	389,516	100.04 %
PLTG	845	0.22 %
HVDC	-702	-0.18 %
Interconnection	143	0.04 %
Net Energy	389,373	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:	16:00:00 Hour
Total Set On Bus	20,175 MW
TNB Generation	3,209 MW
IPP Generation	15,199 MW
Spinning Reserve	1,694 MW
Maximum Demand	18,470 MW
Net Energy	389,373 MWH
Load Factor	87.84 %

Fuel Cost

Total Cost:	76,364,789.40 RM
Cost per Unit	20.04 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	530
Hydro	284
Syncon	865
Thermal	186
Total	1,865

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	50
PAKA	46
PGPS	38
SRDG	6
TJGS	216
Total TNB	357
CBPS	55
KLPP	107
MPSS	45
NPRI	160
PGLA	111
PLPS	91
PTEK	2
SGRI	128
SKSP	47
YPKA	76
PKLG	72
Total IPP	894
Total Gas	1,251
Total Gas Required	1,251

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	15844	15102	14762	14270	13828	13543	13817	13635	14117	16018	16904	17568	17569	17255	17896	18348	18470	18016	16765	16598	17488	17615	17023	16511

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, April 24, 2019 10:29:51 AM

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

Daily MW Generation on Tuesday

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	694	693	693	692	693	693	693	691	693	693	693	692	694	694	693	692	689	694	691	694	692	692	693	692	693	692	693	692	695	693	692	700	694	692	691	691												
JMAH	U002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	159	202	242	304	360	439	475	528	606	621	704	704	701	699	696	693	694	696	695	693					
JMHE	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	43	135	133	437	514	516	515	515	516	369	316	321	317	518	517	514	515	517	517	514	517	576	888	987	902	907	901					
JMJG	U001	678	677	672	673	672	672	671	672	671	673	675	671	672	672	676	667	671	685	669	699	670	673	671	671	672	674	671	671	671	670	672	667	671	671	674	668	670	672	664	672	669	673	672	673				
JMJG	U002	662	672	672	673	671	673	674	671	673	672	672	671	667	676	672	670	671	674	672	674	669	672	676	671	672	668	672	673	671	673	672	672	671	673	674	670	672	667	672	677	666	673	672	671				
JMJG	U003	666	665	666	666	666	666	668	667	666	666	666	666	666	672	666	665	665	667	666	666	665	665	667	667	663	666	664	666	667	666	670	662	668	665	664	665	666	662	663	666	666	666	662	667	668	666	667	666
JMJG	U004	972	972	887	848	847	845	848	846	846	819	781	777	785	846	845	845	846	845	912	983	983	983	983	983	986	985	985	983	985	986	979	974	986	986	983	987	986	985	985	983	985	985	987	985	985	986	986	
JMJG	U005	971	977	974	856	838	842	842	842	840	838	842	843	843	838	843	839	843	841	919	980	980	980	979	978	982	979	978	980	982	977	980	977	980	979	978	980	979	978	979	980	978	980	980	983	983	977		
PKLG	U003	282	281	279	282	280	281	283	282	284	282	282	284	285	284	283	282	281	281	281	283	282	284	283	281	280	281	280	280	282	281	279	280	283	282	283	284	284	282	281	281	282	274	280	282	257	253	252	252
PKLG	U004	284	280	279	278	279	280	279	276	280	278	280	280	280	269	279	278	276	277	276	281	279	280	281	280	281	280	278	276	275	276	272	277	279	278	279	278	280	281	280	280	279	279	279	279	280			
PKLG	U005	470	471	470	472	471	470	469	471	471	470	470	470	469	469	468	466	470	471	469	468	468	468	468	465	471	471	471	470	471	470	471	470	470	469	469	470	472	470	468	470	468	468	470	468	470			
TBIN	U001	690	689	691	690	689	691	690	691	689	689	690	690	689	692	689	687	690	690	689	690	687	688	689	689	687	690	690	688	689	690	689	690	689	689	688	691	689	690	690	689	689	690	689	689	689	690	689	
TBIN	U002	689	691	692	687	692	690	690	690	692	691	690	690	691	691	692	692	690	691	689	691	691	691	691	691	689	691	692	690	691	690	693	690	691	691	690	691	689	691	690	690	690	689	689	689	693	693	691	692
TBIN	U003	692	692	689	692	692	688	691	691	691	690	692	691	691	691	691	690	691	691	691	693	689	692	689	691	692	690	691	691	691	690	689	689	690	691	690	691	690	692	693	693	692	691	689	692	691	692	692	
Total ST-Coal		7760	7760	7664	7509	7490	7491	7500	7487	7497	7460	7431	7429	7438	7498	7493	7480	7486	7487	7629	7783	7779	7839	7905	7891	8199	8269	8279	8323	8436	8482	8379	8370	8440	8519	8754	8817	8895	8898	8993	8981	8982	8985	9022	9361	9423	9346	9345	9333
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	146	146	147	147	147	147	147	147	147	147	147	147	147	145	145	175	215	250	252	250	250	180	145	145	202	250	250	250	251	251	249	203	144	78	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	U002	159	147	147	141	141	147	147	147	147	147	147	147	147	147	147	147	175	250	250	250	249	185	146	146	209	250	249	249	249	249	249	235	146	146	146	146	189	241	207	146	85	0	0	0	0	0		
Total ST-Gas		305	293	294	288	288	294	294	294	294	294	294	294	294	294	292	292	350	465	500	502	499	499	365	291	291	411	500	499	500	500	498	438	290	224	146	146	189	241	207	146	85	0	0	0	0	0		
CBPS	BLK2	359	353	354	360	360	361	359	359	363	361	359	365	360	361	354	363	362	365	363	370	365	369	369	360	351	361	359	360	360	360	361	361	361	361	354	361	354	361	361	361	361	359	360	360	360	354	358	
GLGR	GT01	67	65	80	101	100	64	64	64	64	64	64	64	64	64	64	67	66	93	100	99	100	99	98	98	98	66	68	66	67	68	66	84	100	99	99	72	65	65	67	96	100	102	99	84	67	68	68	68
GLGR	GT02	69	69	84	103	103	67	67	67	67	67	67	67	67	67	69	69	95	103	102	101	102	102	102	68	69	68	69	68	69	68	86	103	101	101	75	69	69	69	99	103	102	103	86	68	69	70	70	
GLGR	ST1C	70	70	76	88	86	77	77	77	77	77	77	77	77	70	81	89	90	90	90	89	90	89	72	71	71	70	70	80	80	89	89	90	79	71	86	88	88	88	82	75	70	70	70	70				
KLPP	GT13	143	143	143	143	142	142	73	73	73	72	73	71	72	73	72	92	143	142	142	141	144	143	143	144	133	138	143	142	143	143	144	143	143	144	116	112	114	137	144	143	142	123	112	115	111	5		
KLPP	GT14	152	151	153	152	151	151	104	85	80	81	80	81	78	80	78	78	82	149	147	149	149	150	151	150	149	142	151	150	151	151	150	150	150	151	151	125	125	126	150	157	152	153	136	124	128	123	120	
KLPP	GT15	147	147	146	147	147	146	102	84	82	80	82	82	80	81	80	82	85	145	150	150	142	146	145	146	148	141	146	146	146	146	145	148	149	149	149	152	122	123	122	146	150	151	151	136	123	122	118	120
KLPP	ST17	198	198	202	199	199	198	170	142	142	142	146	142	143	143	137	142	201	201	207	202	198	198	198	198	194	198	198	198	198	198	197	197	199	199	200	182	183	183	198	202	206	206	191	187	184	187	155	
MPSS	GT01	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	52	106	106	107	106	106	105	106	106	105	106	104	105	106	106	106	107	99	68	68	70	99	107	108	108	83	69	104	86	88	
MPSS	GT02	106	87	95	90	86	84	89	88	86	85	84	86	87	86	86	86	88	86	88	107	106	106	106	106	106	106	106	105	106	105	105	105	106	105	107	97	70	69	71	96	107	107	81	68	7	0	0	
MPSS	ST01	50	37	41	39	35	34	34	36	36	35	33	37	36	36	34	34	37	33	38	39	96	110	110	110	111	113	112	112	112	112	112	112	113	108	67	67	66	87	107	108	109	89	66	44	35	35		
NPRI	BLK1	502	504	505	511	509	509	512	512	512	506	501	510	511	508	507	509	511	512	514	515	509	524	511	509	494	510	512	510	511	511	511	511	512	510	509	500	506	496	508	510	505	511	511	511	505	511	497	510
NPRI	BLK2	535	529	527	538	536	534	538	538	538	533	527	538	536	535	507	511	514	514	514	512	511	513	512	512	512	511	512	512	511	512	512	514	512	512	512	500	508	499	511	512	506	512	511	512	504	511	500	514
PAKA	GT4A	89	84	84	84	84	84	84	84	84	84	84	84	84	84	85	85	84	84	92	93	92																											

Daily MW Generation on Tuesday

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
SGRI	GT12	113	142	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

