

Daily System Generation Summary on Tuesday

Tuesday, August 20, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,935 MW
Distillate	0 MW
Total TNB	1,935 MW
Total IPP	15,165 MW
Total Co-Gen	75 MW
Total System	20,176 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,488	2.23 %
Gas	36,128	9.48 %
Total TNB	44,616	11.71 %
ST-Coal	213,190	55.95 %
LSS	1,973	0.52 %
Gas	119,454	31.35 %
Total IPP	334,617	87.82 %
Co-Gen	1,187	0.31 %
Total Co-Gen	1,187	0.31 %
Total Generation	380,420	99.84 %
PLTG	73	0.02 %
HVDC	-694	-0.18 %
Interconnection	-621	-0.16 %
Net Energy	381,041	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	19,191 MW
TNB Generation	2,432 MW
IPP Generation	15,518 MW
Spinning Reserve	1,185 MW
Maximum Demand	18,040 MW
Net Energy	381,041 MWH
Load Factor	88.01 %

Fuel Cost

Total Cost:	72,407,318.68 RM
Cost per Unit	19.02 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	433
Hydro	428
Syncon	379
Thermal	271
Total	1,511

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	203
Total TNB	255
CBPS	52
KLPP	92
NPRI	153
PGLA	106
PLPS	93
PTEK	16
SGB3	81
SGRI	81
SKSP	52
YPKA	62
Total IPP	788
Total Gas	1,042

Total Gas Required 1,042

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	15598	14867	14291	13843	13592	13313	13542	13554	13785	15634	16554	17183	17171	16876	17607	17918	18040	17526	16300	15988	17324	17249	16796	16437

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 26, 2019 8:06:21 AM

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

Daily MW Generation on Tuesday

[illegible]

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
TJGS	GT2B	210	210	208	208	208	204	142	142	144	143	143	143	143	143	143	143	143	143	143	143	143	143	143	143
TJGS	ST2C	255	255	255	255	255	255	214	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPKA	GT12	129	129	130	129	68	68	68	67	68	68	68	68	68	72	67	68	68	86	137	137	136	134	136	134
YPKA	ST10	57	57	56	57	34	33	33	33	33	33	33	33	35	33	30	87	104	118	118	117	116	117	117	117
YPKA	GT21	126	125	125	125	65	65	65	65	65	65	65	65	65	69	65	65	65	65	65	65	65	65	65	65
YPKA	ST20	59	59	59	59	39	39	39	38	38	39	38	39	39	40	39	39	39	39	39	39	39	39	39	39
Total CCGT-Gas		6416	6122	5708	5482	5388	5140	5007	4769	4660	4497	4410	4397	4641	4822	4716	4488	4903	5951	6383	6758	6847	7221	7532	7590
PTEK	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT2B	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 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
BSIA	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
BSIA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
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
CEND	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
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	62	63	99	100	100	100	99	63
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	63	100	64	125	125	125	63	0
KNRG	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
KNRG	HY02	25	25	24	25	25	25	24	24	25	23	23	23	24	22	22	23	22	22	23	23	23	23	23	23
KNRG	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
KNYR	HY02	60	60	59	59	60	59	59	59	60	59	58	60	65	57	53	59	60	59	59	59	59	61	60	60
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1
KNYR	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
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	27	20	20	26	26	20	20	17	26
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	18	18	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	32	33	33	32	33	33	33
TMGR	HY03	32	32	32	32	32	32	31	32	31	31	31	31	31	32	29	27	31	31	30	31	31	31	31	31
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
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		156	156	154	155	156	155	154	164	156	171	171	151	153	160	147	141	152	153	154	172	232	244	241	379
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

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
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	27	27	27	27	26	26	26	26	27	27	26	27	26	26	26	26	26	27	27	27	27	26	27	27
PCUF	CUFK	8	28	29	28	30	28	28	28	29	29	31	28	28	28	26	27	28	28	30	32	27	28	30	30
Total Co-Gen		35	55	56	55	56	54	54	54	56	56	57	55	54	55	55	55	53	54	56	58	53	55	55	56
Total Gen		15575	15296	14825	14442	14252	14001	13865	13633	13517	13370	13272	13252	13495	13697	13565	13349	13783	14928	15608	16084	16484	16878	17102	17329
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		-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		5	58	-14	-18	-11	-28	50	2	-47	13	-12	14	-19	-27	41	48	31	9	17	6	-14	9	-22	-38
Interconnection		-24	29	-43	-47	-40	-56	21	-27	-76	-16	-41	-14	-47	-55	11	19	2	-19	-12	-23	-42	-19	-51	-67
System Total		15598	15266	14867	14488	14291	14056	13843	13659	13592	13386	13313	13266	13542	13752	13554	13330	13785	14957	15634	16130	16554	16923	17183	17423
SRev ST-Coal		122	127	183	258	278	276	278	280	285	282	295	280	281	268	280	269	283	284	167	134	259	246	363	373
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		993	715	830	1056	1150	1398	1531	1769	1878	2041	2128	2141	1897	1716	1822	2180	1765	852	869	726	735	491	423	365
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
SRev LSS		3	3	3	3	3	3	3	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		40	20	19	20	19	21	21	19	19	18	20	21	23	22	21	20	20	22	21	19	17	22	20	20
Syncon		829	829	829	829	829	829	678	829	678	678	829	829	829	829	829	829	829	655	504	655	554	554	590	554
Hydro		144	144	146	145	144	145	146	287	144	280	280	149	147	140	153	159	148	147	146	128	242	381	233	321
S.Reserve Total		2131	1838	2010	2311	2423	2672	2808	3038	3158	3301	3400	3420	3176	2974	3105	3457	3044	2130	2031	1838	1914	1644	1695	1633