

Daily System Generation Summary on Tuesday

Tuesday, April 30, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,504 MW
Distillate	0 MW
Total TNB	2,504 MW
Total IPP	16,479 MW
Total Co-Gen	0 MW
Total System	22,062 MW

Generation Mix

Type	MWh	Percentage
Hydro	4,897	1.32 %
Gas	35,282	9.48 %
Total TNB	40,179	10.80 %
ST-Coal	208,172	55.94 %
LSS	971	0.26 %
Gas	121,079	32.54 %
Total IPP	330,222	88.74 %
Co-Gen	1,387	0.37 %
Total Co-Gen	1,387	0.37 %
Total Generation	371,788	99.91 %
PLTG	348	0.09 %
HVDC	-697	-0.19 %
Interconnection	-349	-0.09 %
Net Energy	372,137	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:	16:30:00 Hour
Total Set On Bus	19,255 MW
TNB Generation	1,727 MW
IPP Generation	15,379 MW
Spinning Reserve	2,094 MW
Maximum Demand	17,237 MW
Net Energy	372,137 MWH
Load Factor	89.96 %

Fuel Cost

Total Cost:	70,693,956.44 RM
Cost per Unit	19.01 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	761
Hydro	191
Syncon	1,091
Thermal	81
Total	2,124

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	203
Total TNB	250
CBPS	52
KLPP	94
NPRI	150
PGLA	104
PLPS	91
SGB3	39
SGRI	151
SKSP	50
YPKA	61
Total IPP	791
Total Gas	1,041
Total Gas Required	1,041

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	15680	14976	14456	13997	13608	13507	13627	13578	13841	15549	16202	16620	16504	16106	16725	16963	17168	16830	15763	15511	16514	16367	15870	15566

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, May 08, 2019 2:44:22 PM
(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			
TJGS	GT1A	222	228	195	199	173	155	180	154	152	152	149	151	155	228	156	154	136	166	229	224	224	228	226	226	225	225	174	230	224	225	216	220	222	223	217	211	140	182	219	224	213	222	218	222	209	224	225	200		
TJGS	GT1B	214	212	178	190	165	148	169	145	145	144	143	142	148	213	146	144	130	160	217	216	216	215	214	217	216	216	166	214	211	212	211	211	210	213	209	203	132	172	208	214	210	211	205	212	200	215	214	193		
TJGS	ST1C	243	235	205	204	219	189	198	187	183	183	183	186	186	222	187	184	182	187	239	246	246	243	243	243	243	204	230	240	240	244	244	244	244	244	240	181	200	239	243	239	239	240	240	236	239	239	233			
TJGS	GT2A	212	212	212	212	214	214	214	214	145	145	148	145	147	147	147	147	215	212	212	212	212	212	212	212	166	209	209	209	209	209	209	209	209	209	209	209	147	147	147	210	209	209	209	209	209	209	209			
TJGS	GT2B	211	211	211	211	211	211	212	212	144	144	144	144	144	144	144	144	213	210	210	211	211	211	211	211	162	208	206	206	206	206	206	206	206	206	206	141	144	144	204	207	207	206	206	206	207	207				
TJGS	ST2C	259	259	259	259	259	259	259	259	211	211	211	211	211	211	211	211	254	259	259	259	259	259	259	259	259	259	259	257	257	257	257	257	257	257	211	211	211	257	257	257	257	257	257	257	257	257				
YPKA	GT11	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	128	127	125	125	89	64	65	125	98	97	99	99	99	99	99	99	61	61	62	62	124	128	128	127	57	0	0	0			
YPKA	GT12	129	131	119	68	69	68	69	69	69	69	69	68	69	68	69	69	69	68	69	126	130	129	130	130	95	65	65	66	133	101	100	101	101	101	100	62	62	63	63	129	130	130	130	130	130	130	130			
YPKA	ST10	72	55	54	32	32	33	32	32	32	33	32	32	32	32	32	32	32	32	98	123	125	123	124	113	79	80	80	116	103	102	103	102	102	102	77	77	76	77	112	124	125	125	55	56	57	57	57			
YPKA	GT21	122	125	108	65	65	65	65	65	65	65	65	65	65	65	65	65	65	64	65	65	65	0	0	0	0	0	70	130	128	130	130	130	65	65	65	65	65	65	65	65	120	125	125	124	124	123	125	126	123	
YPKA	ST20	60	61	58	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	0	0	0	0	0	4	62	63	63	63	63	39	38	38	39	38	39	38	39	38	54	61	61	61	61	61	62	62	61
Total CCGT-Gas		6868	6569	6125	5915	5851	5636	5477	5275	5077	4985	4974	4978	5059	5326	5064	4836	5341	6058	6402	6867	7076	7466	7580	7587	7345	7200	6852	7116	7330	7569	7408	7454	7480	7586	7254	6743	6269	6552	6714	7584	7432	7384	7280	7075	6806	6771	6726	6424		
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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
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	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	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	-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	-1				
KNRG	HY02	23	24	23	23	24	23	23	23	23	23	23	23	23	23	23	23	22	23	23	23	23	23	23	23	23	23	23	24	23	23	23	23	23	23	23	23	23	23	23	23	24	23	23	23	23	24	23	23		
KNYR	HY02	57	59	56	57	60	57	60	58	57	56	56	56	58	59	60	58	55	57	58	59	58	58	59	59	59	59	57	59	59	58	58	58	58	58	58	56	56	58	59	61	59	59	59	59	59	60	60	60		
KNYR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1																													

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																									
Total Co-Gen		54	59	62	63	64	62	63	61	60	61	61	61	60	62	61	62	61	60	60	58	57	59	59	56	54	61	57	57	60	54	56	56	57	55	54	53	54	52	55	55	56	55	54	56	54	55	57	53	
Total Gen		15676	15370	14950	14664	14413	14184	13995	13844	13599	13499	13496	13498	13582	13869	13592	13357	13908	14861	15469	15981	16214	16515	16606	16753	16492	16319	16155	16481	16672	16921	16932	17056	17105	17161	16823	16270	15781	15398	15509	16404	16508	16446	16356	16140	15883	15628	15576	15326	
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		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-28	-28	-30	-30	-29	-29	-29	-29	-28	-28	-28	-28	-29	-29	-28	-28
TIE-PLTG		26	-1	3	-9	-14	1	27	18	19	-4	18	20	-16	67	42	-23	96	13	-51	20	41	23	15	57	18	60	78	-12	-24	-40	-2	-14	-35	-48	23	83	47	34	27	-36	23	5	18	12	42	-53	38	60	
Interconnection		-4	-30	-26	-38	-43	-28	-2	-11	-9	-33	-11	-9	-45	38	14	-52	67	-16	-80	-9	12	-6	-14	28	-12	30	49	-42	-53	-69	-31	-43	-63	-76	-7	53	18	5	-2	-65	-6	-23	-11	-16	13	-82	10	31	
System Total		15680	15400	14976	14702	14456	14212	13997	13855	13608	13532	13507	13507	13627	13831	13578	13409	13841	14877	15549	15990	16202	16521	16620	16725	16504	16289	16106	16523	16725	16990	16963	17099	17168	17237	16830	16217	15763	15393	15511	16469	16514	16469	16367	16156	15870	15710	15566	15295	
SRev ST-Coal		122	139	113	192	277	252	284	273	273	285	275	278	275	280	273	93	51	-165	-226	107	104	171	132	103	106	131	129	129	122	64	-111	75	68	131	129	143	141	128	127	103	108	120	104	118	124	-813	85	140	
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	0	
SRev CCGT-Gas		938	672	1116	1326	1390	1605	1764	1966	2164	2256	2267	2263	2182	1915	2199	2355	2003	1501	1231	796	627	539	515	642	835	1195	1523	1059	845	906	919	808	782	676	1008	1519	1993	1710	1332	462	614	662	550	690	829	645	690	992	
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	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	0	0
SRev Co-Gen		18	13	10	9	8	10	9	11	12	11	11	11	12	10	11	10	11	12	12	14	15	13	13	16	18	11	15	15	12	18	16	16	15	17	18	19	18	20	17	17	16	17	18	16	18	17	15	19	
Syncon		1115	1115	1115	1115	1115	1115	964	1115	1115	1115	1115	1115	964	1115	1115	1115	1115	1115	1115	1050	1201	1203	1203	928	1115	1115	1115	1115	1115	964	964	1115	1115	1115	1115	1115	1115	813	1115	1115	1115	1115	1115	1115	964	1115	1115	1115	
Hydro		157	152	157	155	147	151	148	409	152	154	154	153	150	278	148	150	159	152	149	267	165	91	131	277	138	139	148	142	142	271	277	150	149	150	152	156	156	406	149	145	190	191	192	191	322	189	190	149	
S.Reserve Total		2350	2091	2511	2797	2942	3138	3325	3628	3721	3826	3827	3825	3739	3452	3751	3728	3344	2620	2286	2239	2112	2017	1994	1966	2217	2596	2935	2465	2241	2228	2070	2169	2134	2094	2427	2957	3428	3082	2745	1847	2043	2105	1979	2130	2257	1153	2095	2415	