

Daily System Generation Summary on Tuesday

Tuesday, October 08, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,289 MW
Distillate	0 MW
Total TNB	2,289 MW
Total IPP	14,312 MW
Total Co-Gen	65 MW
Total System	18,963 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,857	3.30 %
Gas	44,751	12.45 %
Total TNB	56,608	15.75 %
ST-Coal	169,640	47.19 %
ST-Gas	6,999	1.95 %
LSS	2,362	0.66 %
Gas	122,537	34.09 %
Total IPP	301,538	83.88 %
Co-Gen	1,236	0.34 %
Total Co-Gen	1,236	0.34 %
Total Generation	359,382	99.97 %
PLTG	-819	-0.23 %
HVDC	721	0.20 %
Interconnection	-98	-0.03 %
Net Energy	359,480	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:	14:30:00 Hour
Total Set On Bus	18,583 MW
TNB Generation	3,101 MW
IPP Generation	14,011 MW
Spinning Reserve	1,421 MW
Maximum Demand	17,163 MW
Net Energy	359,480 MWH
Load Factor	87.27 %

Fuel Cost

Total Cost:	72,128,817.78 RM
Cost per Unit	20.13 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	431
Hydro	419
Syncon	742
Thermal	210
Total	1,802

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	13
PAKA	46
PGPS	47
SRDG	4
TJGS	216
Total TNB	326
CBPS	54
KLPP	103
MPSS	54
PGLA	107
PKLG	15
PLPS	97
SGB3	97
SGRI	162
SKSP	51
YPKA	93
PKLG	69
Total IPP	902
Total Gas	1,229
Total Gas Required	1,229

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	14217	13407	13100	12730	12586	12363	12784	12750	13351	15097	16051	16632	16522	16349	16858	17133	17109	16485	15626	15745	16150	15911	15280	14702

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, November 04, 2019 11:41:31 AM

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

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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 Hydro		381	398	378	380	398	378	375	379	378	284	146	147	145	146	145	165	145	208	202	203	178	540	605	595	568	313	254	606	806	1136	1034	1042	1040	1039	688	484	216	215	412	915	821	764	850	849	560	547	470	477						
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	0	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	2	6	9	13	16	19	22	21	27	28	9	7	5	1	2	27	17	0	1	2	2	2	1	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	3	10	16	24	30	16	20	39	47	35	35	24	40	43	47	35	25	19	14	17	6	7	4	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	4	11	22	12	33	33	44	44	49	23	34	34	23	12	34	33	12	22	12	12	13	13	1	1	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	1	8	12	22	29	35	40	44	47	50	47	30	36	22	38	49	8	6	13	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	11	25	22	34	29	27	41	47	49	41	40	49	14	3	6	23	29	30	6	2	1	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	3	8	14	20	27	32	36	40	42	44	45	43	19	20	18	4	6	41	20	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	19	27	34	42	34	29	50	50	26	16	6	23	21	24	40	24	31	23	13	4	1	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	3	10	22	22	42	24	31	24	56	58	47	46	53	48	52	45	29	41	46	34	4	2	3	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	3	6	14	20	24	32	36	40	42	44	36	41	20	10	43	18	34	27	28	14	2	1	1	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	21	71	128	195	236	267	281	308	396	405	317	282	253	239	247	239	198	193	204	142	49	31	24	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	25	23	22	24	24	25	23	23	24	22	24	23	23	24	22	24	23	24	22	24	23	23	24	23	23	24	23	23	23	22	23	24	23	23	23	24	24	21	23	24	23	24	24	24	24	23	23	23	23					
PCUF	CUFK	30	29	30	30	29	31	29	30	30	29	30	29	30	26	23	29	31	30	28	27	28	28	28	27	26	26	27	28	27	28	26	27	25	27	28	28	27	29	28	28	27	28	28	30	29	30	28	28						
Total Co-Gen		55	52	52	54	53	56	52	53	54	51	54	52	53	49	45	53	54	54	50	51	51	51	52	52	50	49	50	51	51	50	51	48	50	49	50	51	51	51	53	49	51	51	51	52	54	53	53	51	51	51				
Total Gen		14204	13868	13445	13213	13112	12941	12742	12648	12598	12443	12328	12538	12786	13103	12793	12721	13335	14392	15112	15578	15975	16440	16596	16718	16526	16234	16264	16545	16829	17162	17152	17149	17087	16970	16474	16043	15646	15337	15730	16340	16164	16092	15923	15736	15288	15044	14721	14409	14409	14409	14409			
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	0	0	0	0	0			
TIE-HVDC		31	31	30	30	31	31	31	31	30	30	30	30	29	29	30	30	31	31	30	30	31	31	29	29	31	31	30	30	31	31	30	30	29	29	29	29	29	29	30	30	29	29	29	29	31	31	31	31	31	31	31			
TIE-PLTG		-43	-19	9	-28	-19	-42	-18	-4	-18	-4	-66	2	-27	0	13	-70	-47	-38	-15	-29	-107	-56	-65	-44	-27	-110	-115	-32	-59	-32	-11	-18	-51	-65	-40	-34	-10	-22	-46	-1	-15	-54	-17	0	-23	-70	-12	-40	-40					
Interconnection		-13	12	38	2	12	-11	12	26	12	26	-35	32	2	30	43	-40	-16	-7	15	1	-76	-25	-36	-14	4	-80	-85	-3	-29	-1	19	12	-22	-35	-11	-5	20	7	-15	29	14	-25	12	30	8	-40	19	-10	-10					
System Total		14217	13856	13407	13211	13100	12952	12730	12622	12586	12417	12363	12506	12784	13073	12750	12761	13351	14399	15097	15577	16051	16465	16632	16732	16522	16314	16349	16548	16858	17163	17133	17137	17109	17005	16485	16048	15626	15330	15745	16311	16150	16117	15911	15706	15280	15084	14702	14419	14419	14419				
SRev ST-Coal		135	216	425	444	451	445	448	445	438	444	433	444	442	443	444	437	432	435	208	214	215	217	223	218	230	224	225	222	233	286	304	200	207	177	81	110	141	145	109	107	84	150	110	89	76	225	138	137	137					
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	-1	-1	0	-1	-1	0	0	28	-4	0	46	49	69	72	71	73	72	-4	-4	-7	36	-10	0	0	0	0	0						
SRev CCGT-Gas		1105	1431	1026	1015	1047	1244	1432	1534	1591	1642	1634	1422	1192	907	1196	1375	1001	470	657	477	352	334	423	381	519	465	297	380	294	301	339	372	390	480	520	413	524	710	433	323	422	374	436	385	452	502	694	626	626					
SRev ST-Gas		0	0	0	0	0	0	0	0	0	0	0	30	30	32	32	65	68	70	72	76	79	54	52	84	82	40	61	48	6	-2	-1	-25	1	1	1	1	1	1	72	69	4	1	1	1	1	1	1	1	1	2	2	2		
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SRev Co-Gen		10	13	13	11	12	9	13	12	11	14	11	13	12	16	20	12	11	11	15	14	14	13	13	15	16	15	14	14	15	14	14	17	15	16	15	14	14	14	12	16	14	14	14	13	11	12	12	14	14					
Syncon		915	764	915	915	951	1102	1102	1102	1203	1203	1203	1203	1052	1203	1102	1102	1102	1102	1102	1117	764	764	699	850	1203	1052	850	764	302	489	489	489	489	489	613	890	1203	1203	1102	764	764	850	850	850	850	825	1102	1102	1102					
Hydro		241	371	240	238	370	239	242	238	239	232	270	269	271	270	271	402	271	309	315	314	324	465	480	580	456	358	418	443	358	490	405	447	449	450	577	354	309	310	314	299	393	450	278	279	468	456	256	249	249					
S.Reserve Total		2406	2795	2619	2623	2831	3039	3237	3331	3381	3535	3551	3381	3150	2871	3166	3343	2986	2397	2369	2197	2101	1943	1954	1974	2152	2305	2067	1957	1669	1421	1546	1500	1597	1662	1876	1854	2263	2527	2111	1509	1674	1746	1725	1607	1858	2021	2204	2130	2130					