

Daily System Generation Summary on Friday

Friday, July 05, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,342 MW
Distillate	0 MW
Total TNB	2,342 MW
Total IPP	16,192 MW
Total Co-Gen	0 MW
Total System	21,309 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,459	2.78 %
Gas	34,054	9.05 %
Total TNB	44,513	11.84 %
ST-Coal	229,405	60.99 %
LSS	1,798	0.48 %
Gas	99,888	26.56 %
Total IPP	331,091	88.03 %
Co-Gen	1,201	0.32 %
Total Co-Gen	1,201	0.32 %
Total Generation	376,805	100.19 %
PLTG	-30	-0.01 %
HVDC	729	0.19 %
Interconnection	699	0.19 %
Net Energy	376,106	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:	15:30:00 Hour
Total Set On Bus	19,547 MW
TNB Generation	2,374 MW
IPP Generation	15,269 MW
Spinning Reserve	1,862 MW
Maximum Demand	17,732 MW
Net Energy	376,106 MWH
Load Factor	88.38 %

Fuel Cost

Total Cost:	67,988,671.95 RM
Cost per Unit	18.03 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	558
Hydro	519
Syncon	749
Thermal	232
Total	2,058

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	5
TJGS	206
Total TNB	240
MPSS	4
NPRI	152
PGLA	107
PLPS	93
PTEK	5
SGRI	154
SKSP	50
YPKA	75
Total IPP	640
Total Gas	880
Total Gas Required	880

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	15676	15040	14539	14007	13749	13387	13556	13456	13714	15402	16437	17042	16982	16597	16910	17658	17671	17331	16058	15699	16658	16539	16102	15870

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, July 12, 2019 9:52:11 AM

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

Daily MW Generation on Friday

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	
YPKA	GT12	123	111	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	125	127	127	127	135	136	136	135	134	134	135	134	125	125	125	125	125	100	66	67	129	126	127	127	127	106	102	101	132
YPKA	ST10	121	113	54	34	33	33	33	33	33	33	34	34	33	33	33	33	34	34	112	120	123	124	124	128	129	129	129	129	129	128	128	123	124	124	124	123	108	82	81	112	123	122	122	122	117	103	103	125		
YPKA	GT21	121	65	65	65	65	65	64	65	65	65	65	65	65	65	65	65	65	129	118	117	118	118	129	130	65	65	129	128	129	128	119	119	120	120	120	65	65	65	66	121	124	123	123	106	64	64	100			
YPKA	ST20	57	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	62	54	55	54	55	60	62	39	39	60	62	62	61	56	56	56	56	56	39	39	39	40	57	57	57	57	55	39	38	47			
Total CCGT-Gas		5813	5591	5382	5281	5298	5033	4763	4346	4203	3881	3804	3967	4010	4117	3931	3788	4161	4913	5296	5414	5865	6111	6193	6535	6367	6239	6146	6261	6415	6492	6645	6552	6308	6431	6335	6278	5870	5564	5567	6204	6393	6401	6295	6176	5885	6005	5896	5973		
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	0	0	0	0	0	0	88	87	93	93	0	0	0	0	0	0	0	0	0	0	0	0				
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	87	91	79	70	0	0	0	0	0	0	0	0	0	0	0			
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	89	89	0	0	0	0	0	0	0	0	0	0	0	0	0			
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	89	88	90	75	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	0	0	0	0	0	0	0	224	353	355	337	238	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	0	0	0	0	0	0	22	12	22	22	22	22	22	22	22	21	21	21	21	0	0	0	0			

Daily MW Generation on Friday

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	2	7	10	15	16	17	27	11	20	41	31	23	35	44	42	36	35	30	25	19	2	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	1	6	10	17	24	31	39	38	31	45	51	56	56	11	24	19	43	39	33	27	20	9	1	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	1	3	6	6	19	25	28	31	34	37	39	40	37	37	16	16	37	12	9	10	8	3	2	1	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	6	29	47	73	118	140	183	196	210	244	254	265	273	250	235	221	228	192	140	123	90	45	21	10	5	5	0	0	0	0	0	0	0
PCUF	CUFG	34	36	36	35	35	37	34	35	34	36	34	35	34	35	36	35	36	36	34	33	33	34	35	33	35	36	34	36	34	36	34	36	34	35	34	35	35	34	36	34	33	32	34	35	35			
PCUF	CUFK	8	6	6	8	8	8	5	6	7	7	8	8	9	8	7	8	8	6	7	8	6	6	7	7	7	7	5	7	5	6	6	6	11	20	35	36	38	37	36	37	36	38	36	38	36	35	38	37
Total Co-Gen		42	42	42	43	43	43	42	40	42	41	44	42	44	42	42	44	43	40	42	44	42	43	41	40	40	39	42	40	40	43	39	42	40	47	54	70	70	72	72	71	71	74	70	71	68	69	73	72
Total Gen		15728	15304	15039	14746	14572	14287	14006	13796	13780	13455	13388	13432	13542	13719	13511	13380	13746	14773	15377	15928	16428	16757	17001	17180	16972	16754	16596	16746	16945	17288	17676	17685	17665	17628	17398	16782	16109	15721	15731	16412	16701	16738	16640	16490	16139	15989	15877	15796
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	
TIE-HVDC		31	31	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	31	30	30	31	31	31	30	30	30	30	29	29	30	30	31	31	30	30	31	31	30	30	29	29	
TIE-PLTG		25	-45	-28	-15	5	54	-28	38	4	-1	-27	-7	-43	71	27	0	10	30	-37	-48	-8	-32	-45	18	-11	-30	-12	66	40	-5	0	-66	-25	-16	56	60	32	-51	5	-58	16	-5	72	-18	9	-35	-19	13
Interconnection		55	-14	2	15	36	85	2	69	35	30	4	24	-12	102	58	31	41	61	-6	-18	23	-1	-14	49	19	0	19	97	71	26	30	-36	5	15	86	89	62	-21	36	-27	46	25	103	13	39	-5	10	42
System Total		15676	15321	15040	14734	14539	14205	14007	13730	13749	13429	13387	13412	13556	13619	13456	13352	13714	14723	15402	15973	16437	16797	17042	17163	16982	16807	16597	16702	16910	17311	17658	17732	17671	17629	17331	16707	16058	15750	15699	16442	16658	16715	16539	16479	16102	15997	15870	15758
SRev ST-Coal		185	200	256	310	393	375	380	379	381	380	376	259	245	272	277	281	286	313	248	254	239	243	234	261	272	255	270	272	276	271	344	199	184	196	191	200	192	210	190	200	201	209	197	208	193	209	134	248
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	11	114	112	130	106	0	0	0	0	0	0	0	0	0	0	0		
SRev CCGT-Gas		835	585	794	658	641	906	1176	1432	1575	1897	1974	1811	1768	1661	1847	1990	1617	1008	1029	987	676	509	646	304	472	600	693	578	424	347	194	287	531	408	504	561	969	1275	1272	635	446	438	544	663	738	399	508	238
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
SRev LSS		0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	0	0	0	0	0	1	0	0	0	-1	-1	0	1	1	0	0	0	0	0	0	1	0	0	2	2	2	2	2	2	2	2	0	0
SRev Co-Gen		20	20	20	19	19	19	20	22	20	21	18	20	18	20	20	18	19	22	20	18	20	19	21	22	22	23	20	22	22	19	23	20	22	15	8	-8	-8	-10	-10	-9	-9	-12	-8	-9	-6	-7	-11	-10
Syncon		813	1115	1115	1115	1115	1115	1115	1014	1014	1014	1014	1014	1014	863	1014	863	1014	1014	1014	1014	712	712	712	727	727	1029	1115	1115	813	727	727	727	727	540	727	727	727	813	1115	1115	1115	727	727	727	727	727	727	863
Hydro		439	123	123	122	122	120	123	219	92	93	93	93	94	225	94	238	109	108	109	102	363	517	498	723	686	474	404	445	677	491	492	512	664	587	617	712	442	182	184	148	510	622	622	493	516	485	432	339
S.Reserve Total		2296	2047	2312	2228	2294	2539	2818	3070	3086	3409	3481	3201	3145	3047	3256	3394	3049	2469	2424	2380	2014	2004	2115	2040	2182	2385	2507	2437	2217	1859	1795	1863	2057	2067	2158	2196	2412	2776	2755	2095	1881	1990	2088	2088	2174	1819	1796	1682