

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,892 MW
Distillate	0 MW
Total TNB	1,892 MW
Total IPP	15,541 MW
Total Co-Gen	0 MW
Total System	20,357 MW

Generation Mix

Type	MWh	Percentage
Hydro	6,282	1.67 %
Gas	38,561	10.23 %
Total TNB	44,843	11.90 %
ST-Coal	228,573	60.67 %
LSS	1,990	0.53 %
Gas	100,497	26.67 %
Total IPP	331,060	87.87 %
Co-Gen	1,573	0.42 %
Total Co-Gen	1,573	0.42 %
Total Generation	377,476	100.19 %
PLTG	-18	0.00 %
HVDC	729	0.19 %
Interconnection	711	0.19 %
Net Energy	376,765	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:	15:00:00 Hour
Total Set On Bus	19,315 MW
TNB Generation	2,454 MW
IPP Generation	15,316 MW
Spinning Reserve	1,479 MW
Maximum Demand	17,852 MW
Net Energy	376,765 MWH
Load Factor	87.94 %

Fuel Cost

Total Cost:	70,656,326.84 RM
Cost per Unit	18.70 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	485
Hydro	280
Syncon	624
Thermal	175
Total	1,564

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	28
PGPS	38
SRDG	5
TJGS	205
Total TNB	276
MPSS	46
NPRI	142
PGLA	106
PLPS	65
PTEK	8
SGB3	75
SGRI	73
SKSP	48
YPKA	77
Total IPP	639
Total Gas	916

Total Gas Required 916

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	15063	14534	13891	13478	13159	13072	13361	13302	13613	15508	16456	17073	17144	16799	17488	17852	17804	17612	16383	15989	17128	17189	16634	16166

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, July 12, 2019 9:54:50 AM

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

Daily MW Generation on Wednesday

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			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	20	27	33	39	32	48	52	55	53	39	50	41	31	22	38	36	28	13	13	5	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	0	1	2	4	8	17	16	28	31	27	36	38	39	39	38	37	39	16	7	2	4	6	6	4	1	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	4	25	60	104	161	175	232	222	289	288	295	287	278	252	251	222	163	161	145	149	89	72	41	20	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	34	34	36	35	35	36	34	34	35	35	37	36	33	35	33	35	36	34	35	34	35	37	37	34	34	35	37	35	35	36	35	34	35	34	34	35	37	35	35	33	36	34	36	35	35	34	36	36		
PCUF	CUFK	32	32	30	29	31	31	31	31	32	30	32	30	31	30	31	30	31	30	30	29	30	31	31	31	31	31	30	31	31	29	30	29	29	30	31	32	31	31	31	30	32	30	30	31	30	31	36	31		
Total Co-Gen		66	66	66	64	66	67	65	66	65	68	67	68	63	66	63	66	66	65	65	63	65	68	65	65	65	67	66	66	65	67	66	63	65	63	63	65	68	67	66	64	67	64	68	65	65	65	66	67		
Total Gen		15081	14698	14517	14183	13887	13669	13497	13371	13218	13116	13094	13069	13368	13535	13367	13143	13636	14829	15472	16099	16433	16788	17066	17233	17079	16862	16782	17213	17496	17838	17836	17865	17835	17841	17666	16973	16377	16046	15988	16874	17170	17282	17217	16996	16691	16443	16162	15824		
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	
TIE-HVDC		31	31	31	31	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	31	31	31	31	30	30	30	29	29	29	31	29	29	30	30	30	30	
TIE-PLTG		-12	6	-48	-2	-33	15	-12	-45	30	0	-8	-35	-24	29	34	11	-3	31	-46	7	-22	-13	-17	46	-50	3	2	-29	22	9	-24	13	41	30	48	40	-25	-44	-30	19	13	42	-3	-15	28	15	-35	1		
Interconnection		18	37	-17	29	-4	45	19	-15	59	29	22	-5	7	60	65	43	28	62	-16	38	9	18	14	76	-19	33	33	2	53	39	7	44	72	61	79	71	5	-14	1	49	42	71	28	14	57	45	-4	31		
System Total		15063	14661	14534	14154	13891	13624	13478	13386	13159	13087	13072	13074	13361	13475	13302	13100	13613	14786	15508	16088	16456	16811	17073	17205	17144	16877	16799	17241	17488	17828	17852	17847	17804	17806	17612	16919	16383	16065	15989	16827	17128	17211	17189	16982	16634	16398	16166	15793		
SRev ST-Coal		168	187	380	385	401	398	383	388	401	380	443	443	452	432	393	389	385	292	168	151	165	161	156	181	170	186	167	181	174	176	187	190	173	180	179	195	181	186	174	200	197	182	178	183	182	189	179	191		
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	9	10	13	13	14	13	13	59	0	0	0	0	0	0	0	0	0	0	0	0		
SRev CCGT-Gas		846	983	767	912	1174	1362	1557	1684	1822	1944	1903	1930	1619	1468	1680	1921	1443	855	800	653	547	505	429	420	463	576	809	533	600	414	474	380	425	400	420	581	1064	1353	1404	618	402	310	380	498	621	402	634	636		
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		1	1	1	3	1	0	2	1	2	-1	0	-1	4	1	4	1	1	2	2	4	2	-1	2	2	2	2	0	1	1	2	0	1	4	2	4	2	-1	0	1	3	0	3	-1	2	2	2	1	0	0	
Syncon		687	687	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	813	727	628	628	815	815	815	628	441	441	441	441	441	628	815	815	815	815	628	540	540	540	727	815	689	689	689	
Hydro		144	145	136	138	139	140	136	136	137	139	138	138	136	135	135	136	141	140	140	132	169	171	228	231	352	137	137	134	327	356	363	363	364	359	332	172	135	140	137	326	340	332	335	243	195	194	154	154		
S.Reserve Total		1846	2003	2097	2251	2528	2713	2891	3022	3175	3275	3297	3323	3024	2849	3025	3260	2783	2102	1923	1753	1696	1649	1542	1462	1615	1714	1929	1664	1740	1396	1479	1391	1419	1397	1576	1824	2194	2494	2531	1775	1479	1367	1432	1653	1815	1476	1657	1670		