

## Daily System Generation Summary on Saturday

Saturday, March 03, 2018

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,465 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,267 MW</b>
<b>Total IPP</b>	<b>15,463 MW</b>
<b>Total Co-Gen</b>	<b>59 MW</b>
<b>Total System</b>	<b>21,361 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	36,549	10.88 %
Hydro	14,116	4.20 %
<b>Total TNB</b>	<b>50,665</b>	<b>15.08 %</b>
ST-Coal	189,723	56.48 %
Gas	95,034	28.29 %
<b>Total IPP</b>	<b>284,757</b>	<b>84.77 %</b>
Co-Gen	1,388	0.41 %
<b>Total Co-Gen</b>	<b>1,388</b>	<b>0.41 %</b>
<b>Total Generation</b>	<b>336,810</b>	<b>100.26 %</b>
PLTG	164	0.05 %
HVDC	722	0.21 %
<b>Interconnection</b>	<b>886</b>	<b>0.26 %</b>
<b>Net Energy</b>	<b>335,924</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

### Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	16,341 MW
TNB Generation	2,513 MW
IPP Generation	12,473 MW
Spinning Reserve	1,296 MW
Maximum Demand	15,001 MW
Net Energy	335,924 MWH
Load Factor	93.31 %

### Fuel Cost

Total Cost:	59,160,358.98 RM
Cost per Unit	18.33 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	385
Hydro	418
Syncon	683
Thermal	41
<b>Total</b>	<b>1,527</b>

Time	Weather	Temperature
Afternoon	Rainy	31
Morning	Sunny	26

### Gas Usage

Station	(mmscfd)
GLGR	46
TJGS	214
<b>Total TNB</b>	<b>260</b>
CBPS	55
KLPP	97
NPRI	155
PGLA	111
SGRI	59
SKSP	49
YPKA	81
<b>Total IPP</b>	<b>608</b>
<b>Total Gas</b>	<b>868</b>
<b>Total Gas Required</b>	<b>868</b>

### Alternate Fuel Usage

Station	(mmscfd)
<b>Total</b>	<b>0</b>

### 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	14879	14212	13669	13200	12863	12698	12617	12553	12222	13455	14233	14899	14812	14594	14659	14698	14656	14331	13909	14041	14971	14907	14617	14248

Prepared By: Kannathason a/l Karuppiyah

Checked By: Abu Bakar bin K.K. Ibrahim

Printed on: Sunday, March 04, 2018 9:15:08 AM  
 (Gurcharan Singh)  
 Pengurus Besar Kanan  
 Jabatan Sistem Operasi



Daily MW Generation on Saturday

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
BSIA	HY01	22	22	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY02	22	22	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
BSIA	HY03	24	23	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEND	HY01	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	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	10	10	10	10	9	10	10	9	10	9	10	9	9	9	9	9	10	10	9	9	9	10	9	9
HTRG	HY01	63	63	63	110	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY02	63	63	63	110	61	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY02	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
KNYR	HY01	99	101	100	102	101	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	102	102	104	96	105	102	-1
KNYR	HY02	100	102	101	103	102	101	62	60	58	57	59	60	61	60	60	58	60	63	63	59	102	103	103	105
KNYR	HY03	100	100	100	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY04	101	103	102	103	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	17	17	17	17	17	17	17	17
LPIA	HY02	10	11	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	10	11	11	11	11
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6
PGAU	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
PGAU	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
PGAU	HY03	-1	22	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	23	24	23	25	15	15	23	30	23	23
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	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	HY01	64	65	64	64	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	66	66	67	66	66	35	35	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	63	63	63	63	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	64	64	64	64	33	33	33	31	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
UJLI	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
UJLI	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
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		954	984	929	1001	776	406	242	204	219	200	202	204	204	203	203	223	203	217	307	303	497	803	872	927
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
PCUF	CUFG	29	28	27	28	29	29	29	29	30	28	29	28	28	29	29	29	28	28	28	27	27	27	28	27
PCUF	CUFK	30	31	31	31	31	30	29	30	31	30	30	31	30	29	28	30	31	27	27	28	28	26	28	29
Total Co-Gen		59	59	58	59	60	59	58	59	61	58	59	59	58	58	56	58	59	55	54	55	55	54	55	54
Total Gen		14899	14564	14212	13976	13669	13397	13200	13098	12863	12860	12698	12658	12617	12596	12553	12384	12222	12852	13455	13783	14233	14602	14899	14950
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		30	30	30	30	30	31	31	31	31	31	31	30	30	30	30	31	31	30	30	29	29	29	29	29
TIE-PLTG		-10	6	-30	35	36	-18	-4	12	32	5	19	-36	22	-6	6	47	-37	0	-33	12	19	-6	-6	
Interconnection		20	36	-1	65	66	12	26	43	63	36	49	-6	52	25	37	76	-7	30	-3	42	50	24	24	
System Total		14879	14564	14212	13976	13669	13397	13200	13098	12863	12860	12698	12658	12617	12596	12553	12384	12222	12852	13455	13783	14233	14602	14899	14950
SRev ST-Coal		138	258	275	359	364	372	376	365	367	358	355	377	377	106	122	121	94	22	68	54	-12	36	55	
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		660	650	836	665	716	664	639	592	818	831	1016	970	957	1009	1027	1176	1388	807	737	487	284	231	275	
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

### Daily MW Generation on Saturday

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																								
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
Syncon		827	676	827	827	953	1079	1265	1351	1200	1351	1351	1351	1351	1351	948	777	626	626	626	711	586	813	489	464	651	500	500	928	1079	1079	1079	1079	1079	953	651	313	313	590	777	777	651	802						
Hydro		209	331	234	114	213	257	151	103	239	107	105	103	103	104	104	235	126	139	124	128	337	375	457	402	452	514	574	563	510	451	356	485	489	205	137	313	291	284	283	116	351	548	549	353	354	358	357	220
S.Reserve Total		1834	1915	2172	1965	2246	2372	2431	2411	2624	2647	2827	2801	2788	2570	2604	2732	2959	2319	2280	2020	1557	1419	1413	1318	1402	1549	1418	1637	1443	1268	1345	1384	1646	1810	1941	2438	2395	2417	2371	1759	1558	1296	1387	1456	1782	1903	1932	1834