

Daily System Generation Summary on Saturday

Saturday, February 02, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,391 MW
Distillate	0 MW
Total TNB	2,391 MW
Total IPP	16,746 MW
Total Co-Gen	55 MW
Total System	22,271 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,736	2.31 %
Gas	37,810	11.29 %
Total TNB	45,546	13.60 %
ST-Coal	199,364	59.52 %
LSS	933	0.28 %
Gas	88,463	26.41 %
Total IPP	288,760	86.21 %
Co-Gen	952	0.28 %
Total Co-Gen	952	0.28 %
Total Generation	335,258	100.09 %
PLTG	-438	-0.13 %
HVDC	729	0.22 %
Interconnection	291	0.09 %
Net Energy	334,967	100.00 %

Maximum Demand Record

Date: 8/15/2018	18,338 MW
Date: 8/15/2018	388,524 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	16,923 MW
TNB Generation	2,095 MW
IPP Generation	13,146 MW
Spinning Reserve	1,642 MW
Maximum Demand	15,272 MW
Net Energy	334,967 MWH
Load Factor	91.39 %

Fuel Cost

Total Cost:	66,695,738.93 RM
Cost per Unit	20.36 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	461
Hydro	333
Syncon	1,009
Thermal	313
Total	2,116

Time Weather Temperature

Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	216
Total TNB	267
KLPP	96
NPRI	156
PGLA	108
PLPS	36
SGRI	49
SKSP	49
YPKA	42
Total IPP	536
Total Gas	803
Total Gas Required	803

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	14997	14344	13768	13256	12979	12665	12663	12575	12126	13097	13778	14383	14249	14014	14323	14522	14540	14235	13918	14050	15272	15205	15069	14956

Prepared By: Abu Bakar bin K.K. Ibrahim

Checked By: -Select Name-

Printed on: Sunday, February 03, 2019 1:15:38 AM
(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Saturday

[illegible]

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
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
BSIA	HY01	22	22	22	22	22	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY02	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	23	12	12	11	11	11	22	22	11
BSIA	HY03	23	24	24	24	24	24	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
CEND	HY02	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
CEND	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
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
KNRG	HY01	23	23	23	23	23	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	25	25	25	25	25	25	25	26	25	25	25	26	26	26	25	25	25	25	26	26	26	26	26	26
KNYR	HY02	62	59	58	59	60	57	58	59	58	57	59	59	59	58	60	58	59	58	100	59	59	57	54	52
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
LPJA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
LPJA	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
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
PGAU	HY01	20	20	20	20	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	22	22	22	22	21	21	22	22	23	22	23	22	22	23	22	22	22	23	23	23	23	23	22	21
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50
SIHY	HY02	52	52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	24
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25
TMGR	HY01	64	64	64	64	64	64	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	84	2	0	33	33	63	63	62	36	36	36	36	36	36	36	36	35	36	32	36	35	36	34	34
TMGR	HY03	83	83	83	83	83	83	83	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	63	63	63	63	63	63	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5
UPIA	HY02	4	4	4	4	4	5	5	5	4	4	4	4	5	5	5	5	4	5	4	4	4	5	5	5
Total Hydro		642	558	534	516	516	544	525	396	253	217	219	218	218	220	220	220	220	220	216	214	208	211	237	240
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	10	13	18	20	10	21	24	15	21
KKLS	LSS1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	2	4	13	21	19	31	32	40	36	32	37
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	13	14	29	30	44	50	50	41	30	41
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	16	22	27	32	35	43	41	42	45
Total LSS		-1	-1	0	0	0	0	0	0	0	0	0	0	0	11	32	53	85	94	127	127	154	142	119	144
PCUF	CUFG	5	4	4	4	3	4	3	3	2	2	4	4	5	4	4	2	6	5	4	4	3	3	3	3
PCUF	CUFK	38	38	36	38	37	37	38	38	39	38	38	37	39	38	38	39	37	36	37	36	33	33	34	32
Total Co-Gen		43	42	40	42	40	41	42	41	42	40	40	39	43	43	42	43	41	38	43	41	41	40	36	36
Total Gen		14975	14643	14342	13987	13734	13527	13259	13139	13010	12834	12736	12723	12698	12657	12565	12140	12098	12558	13088	13427	13722	14111	14382	14372
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	29	30	30	31	31	30	30	31	31	29	29	30	30	31	30	30	30	30	30	31	31	31	31
TIE-PLTG		-48	-8	-27	-71	-61	-34	-24	-8	4	-14	45	-22	9	-50	-37	-30	-54	-41	-36	-67	-82	-62	-27	-13

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																									
Interconnection		-18	22	2	-42	-30	-3	7	22	35	17	75	7	39	-20	-6	1	-24	-10	-5	-37	-52	-32	3	18	22	29	37	4	12	33	-20	24	25	61	61	35	88	38	32	-1	16	-15	30	45	-5	-2	24	40	
System Total		14997	14625	14344	14033	13768	13534	13256	13121	12979	12821	12665	12720	12663	12681	12575	12143	12126	12572	13097	13468	13778	14147	14383	14358	14249	14169	14014	14131	14323	14486	14522	14465	14540	14428	14235	14040	13918	13972	14050	14984	15272	15213	15205	15067	15069	14919	14956	14760	
SRev ST-Coal		194	202	214	445	432	432	439	439	436	423	416	413	414	407	402	410	419	407	426	431	405	520	366	351	372	309	322	323	323	404	351	301	303	300	170	166	176	163	172	114	94	80	81	247	263	270	263	272	
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	0
SRev CCGT-Gas		515	611	728	450	329	547	793	728	672	752	863	871	906	952	1049	1467	1512	1082	567	574	327	383	311	379	447	639	910	825	644	450	441	400	323	384	508	644	731	942	999	387	253	360	316	371	317	331	258	303	
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		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	4	2	10	2	5	-1	6	10	7	14	-12	7	22	13	23	-2	4	10	2	1	1	0	0	0	0	0	0	0	0	0	
SRev Co-Gen		12	13	15	13	15	14	13	14	13	15	15	16	12	12	13	12	12	14	17	12	14	14	15	19	19	18	20	19	21	21	17	20	19	17	17	15	15	14	15	15	15	15	15	15	16	14	15		
Syncon		601	601	752	752	752	903	989	989	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	1075	974	1075	1075	1075	1075	1075	1075	1075	924	924	1075	1075	1075	1075	1075	1075	1075	1075	924	773	773	773	1075	1075	1075	888	1075		
Hydro		550	577	420	423	423	447	315	273	329	279	277	278	278	276	276	276	275	278	276	277	233	274	274	278	280	286	283	408	405	288	288	289	290	290	289	279	286	286	417	504	551	557	321	310	283	257	258		
S.Reserve Total		1873	2005	2164	2083	1951	2192	2463	2443	2439	2544	2646	2653	2685	2722	2815	3240	3296	2859	2367	2370	2108	2126	2046	2097	2197	2331	2620	2539	2308	2211	2194	2097	2032	2064	2064	2199	2278	2482	2547	1857	1639	1779	1742	2029	1980	1975	1680	1923	