

Daily System Generation Summary on Sunday

Sunday, February 04, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	1,740 MW
Hydro	2,482 MW
Distillate	0 MW
Total TNB	4,222 MW
Total IPP	13,873 MW
Total Co-Gen	0 MW
Total System	18,659 MW

Generation Mix

Type	MWh	Percentage
Gas	22,813	7.38 %
Hydro	29,199	9.45 %
Total TNB	52,012	16.83 %
ST-Coal	164,516	53.22 %
Gas	91,812	29.70 %
Total IPP	256,328	82.92 %
Co-Gen	1,448	0.47 %
Total Co-Gen	1,448	0.47 %
Total Generation	309,788	100.21 %
PLTG	-41	-0.01 %
HVDC	695	0.22 %
Interconnection	654	0.21 %
Net Energy	309,134	100.00 %

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	16,040 MW
TNB Generation	2,351 MW
IPP Generation	12,125 MW
Spinning Reserve	1,502 MW
Maximum Demand	14,555 MW
Net Energy	309,134 MWH
Load Factor	88.50 %

Fuel Cost

Total Cost:	52,881,970.72 RM
Cost per Unit	18.84 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	664
Hydro	296
Syncon	658
Thermal	29
Total	1,647

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	46
PGPS	21
TJGS	103
Total TNB	170

CBPS	55
KLPP	92
NPRI	152
PGLA	54
PLPS	84
SGB3	46
SKSP	45
YPKA	75
Total IPP	604
Total Gas	774

Total Gas Required 774

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	13821	13225	12737	12269	12076	11804	11761	11623	10993	11690	12296	12781	12803	12768	13032	13250	13340	13196	12872	13058	14405	14511	14396	14159

Prepared By: Siti Nurhamizatul Aini

Checked By: -Select Name-

Printed on: Monday, February 05, 2018 1:32:11 AM

(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Sunday

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	GT21	133	133	132	126	64	64	63	125	126	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
YPKA	ST20	63	63	63	63	38	37	37	58	58	57	58	57	57	58	58	42	38	38	38	38	37	37	38	37
Total CCGT-Gas		4725	4660	4510	4390	4216	4040	3871	4296	4294	4226	4120	4179	4042	3996	4149	4020	3801	4134	4328	4526	4733	5033	5163	5317
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	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
BSIA	HY02	23	23	22	22	22	22	22	23	23	23	23	23	22	22	23	22	22	22	22	22	22	22	22	
BSIA	HY03	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	22	23	23	22	22	22	22	23	
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
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	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
HTRG	HY01	124	123	124	-1	-1	-1	-1	124	125	124	123	124	125	124	-1	-1	-1	-1	-1	-1	-1	-1	-1	
HTRG	HY02	124	124	124	125	125	125	124	125	125	125	124	124	124	-1	-1	-1	0	0	0	0	0	0	0	
KNRG	HY01	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
KNRG	HY03	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	
KNYR	HY01	98	100	99	100	99	101	98	101	101	100	98	100	99	99	98	96	95	100	97	98	99	97	94	
KNYR	HY02	99	101	100	101	99	102	98	102	103	101	99	102	100	101	99	98	96	101	98	99	100	98	95	
KNYR	HY03	100	102	101	102	101	103	100	102	102	101	99	101	100	101	99	97	97	101	99	100	101	98	96	
KNYR	HY04	100	101	101	101	100	102	99	102	102	101	99	101	100	100	99	97	96	101	98	99	100	98	96	
LPIA	HY01	26	26	26	26	26	26	26	26	26	26	26	26	26	25	25	25	25	25	25	25	25	24	24	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
MNOR	HY01	7	7	7	7	7	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
PGAU	HY01	112	112	112	111	111	112	112	113	114	114	114	114	114	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	80	80	80	80	80	-1	-1	112	112	112	112	112	112	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	112	112	112	111	112	112	112	112	112	112	111	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	22	22	22	22	22	22	22	22	21	0	0	0	0	
SIHY	HY01	49	49	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY02	51	51	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY03	51	51	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY01	25	25	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY03	25	25	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	25	25	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	62	62	62	62	62	62	82	82	81	82	82	83	81	62	0	-1	-1	-1	62	60	60	60	59	
TMGR	HY02	65	65	65	65	64	64	64	84	84	84	84	85	85	85	84	64	62	64	64	64	64	64	61	
TMGR	HY03	60	60	60	60	60	60	79	74	74	73	74	74	74	73	60	58	60	60	60	60	58	58	56	
TMGR	HY04	61	61	61	61	61	61	81	81	81	80	81	81	81	81	61	60	61	61	61	61	59	59	58	
UJLI	HY01	-1	-1	-1	-1	-1	-1	94	-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	
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	
UPIA	HY02	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		1690	1696	1611	1437	1339	1268	1251	1675	1579	1574	1562	1598	1593	1595	1254	937	864	887	877	858	903	885	1576	
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	
PCUF	CUFG	27	26	28	27	28	27	28	27	29	29	29	29	29	29	28	29	28	28	26	27	27	27	26	
PCUF	CUFK	36	37	32	33	33	33	34	32	33	32	32	33	32	35	34	34	34	33	33	33	32	34	32	
Total Co-Gen		63	63	60	60	61	60	62	59	61	59	61	62	61	64	63	63	62	62	61	62	60	60	61	
Total Gen		13857	13547	13207	12992	12779	12486	12264	12170	12051	11964	11829	11793	11818	11835	11688	11257	11041	11448	11710	11933	12322	12611	12770	

Daily MW Generation on Sunday

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																											
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									
TIE-HVDC		30	30	30	30	31	31	30	31	30	29	29	30	30	31	31	30	30	31	31	30	30	31	31	30	30	30	30	31	31	30	30	30	30	31	31	31	31	30	30	30	30										
TIE-PLTG		6	-15	-48	-5	11	-39	-35	-15	-54	34	-4	2	27	26	34	-9	18	-8	-11	-37	-4	8	21	0	66	7	8	-20	-24	11	-17	12	-34	-1	-12	42	47	-7	11	4	14	-48	-21	10	3	23	-36	-25			
Interconnection		36	15	-18	26	42	-8	-5	16	-25	64	25	32	57	56	65	21	48	22	20	-6	26	38	-11	31	96	38	38	10	7	42	13	42	-4	29	19	73	77	24	41	34	45	-17	9	41	33	52	-7	5			
System Total		13821	13532	13225	12966	12737	12494	12269	12154	12076	11900	11804	11761	11779	11623	11236	10993	11426	11690	11939	12296	12573	12781	12888	12803	12819	12768	12958	13032	13202	13250	13288	13340	13386	13196	12913	12872	12867	13058	13873	14405	14555	14511	14536	14396	14267	14159	13914				
SRev ST-Coal		144	215	122	88	80	145	78	118	131	230	219	201	104	136	123	128	75	172	140	99	150	141	75	67	54	37	2	10	-20	-83	29	38	24	56	84	64	61	6	44	44	34	32	46	60	71	105	143	127			
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	0	
SRev CCGT-Gas		890	955	685	805	979	1155	1324	899	901	969	1075	1016	1153	1199	1046	1175	1394	1061	867	669	615	725	669	658	645	559	697	1027	938	764	815	814	911	849	1078	1255	1251	1296	1122	597	405	409	498	357	462	390	483	518			
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	0	0
SRev Co-Gen		-6	-6	-3	-3	-4	-3	-5	-2	-4	-2	-4	-5	-4	-7	-6	-6	-5	-5	-4	-5	-3	-3	-4	-3	-2	-4	-2	-2	-4	0	-1	-2	-3	-1	-4	-2	-1	-2	-3	-3	-5	-2	-3	-1	-2	-2	-5				
Syncon		374	374	374	500	500	651	651	187	374	374	374	374	374	651	928	928	1013	1013	1164	1079	1079	0	0	187	676	827	827	953	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	1079	626	626	500	500	500	626	777	777	
Hydro		268	262	347	320	268	188	205	245	154	159	171	285	290	288	352	392	381	357	367	235	125	143	381	468	397	255	130	190	209	121	130	136	192	191	193	243	406	500	489	286	468	440	478	356	386	409	340	431			
S.Reserve Total		1670	1800	1525	1735	1823	2136	2253	1447	1556	1730	1835	1871	1917	1990	2166	2617	2773	2598	2383	2162	1966	2085	1121	1190	1281	1523	1654	2052	2076	1881	2052	2065	2203	2174	2430	2639	2796	2879	2731	2003	1530	1502	1520	1270	1418	1528	1741	1848			