

Daily System Generation Summary on Saturday

Saturday, October 27, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,117 MW
Distillate	0 MW
Total TNB	4,919 MW
Total IPP	15,652 MW
Total Co-Gen	54 MW
Total System	20,911 MW

Generation Mix

Type	MWh	Percentage
Gas	36,534	10.75 %
Hydro	12,286	3.61 %
Total TNB	48,820	14.36 %
ST-Coal	202,424	59.55 %
Gas	88,296	25.98 %
Total IPP	290,720	85.53 %
Co-Gen	1,034	0.30 %
Total Co-Gen	1,034	0.30 %
Total Generation	340,574	100.20 %
PLTG	-58	-0.02 %
HVDC	728	0.21 %
Interconnection	670	0.20 %
Net Energy	339,904	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:	19:30:00 Hour
Total Set On Bus	17,027 MW
TNB Generation	2,621 MW
IPP Generation	12,962 MW
Spinning Reserve	1,403 MW
Maximum Demand	15,608 MW
Net Energy	339,904 MWH
Load Factor	90.74 %

Fuel Cost

Total Cost:	65,261,448.47 RM
Cost per Unit	19.88 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	550
Hydro	567
Syncon	343
Thermal	136
Total	1,596

Time	Weather	Temperature
Afternoon	Sunny	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
CBPS	1
GLGR	49
PGPS	1
SRDG	9
TJGS	203
Total TNB	264
CBPS	33
KLPP	94
MPSS	2
NPRI	148
PLPS	86
PTEK	11
SGB3	63
SKSP	46
YPKA	73
Total IPP	555
Total Gas	819
Total Gas Required	819

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	14383	13769	13223	12852	12585	12379	12559	12308	12424	13620	14518	15060	15115	14805	15241	15314	15239	14742	14341	15018	15469	15429	15043	14646

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 29, 2018 10:30:44 AM

(Ir. Shanmugam Thoppalan)
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	
TJGS	GT2B	218	218	218	218	218	218	144	144	144	144	145	145	146	144	143	144	145	219	214	214	214	212	214	214	214	214	215	212	212	213	213	216	216	213	213	214	214	214	214	214	214	214	214	214	215	215	213	213	215	
TJGS	ST2C	264	264	264	264	264	264	211	211	211	211	211	211	211	211	211	211	211	250	260	260	260	260	263	263	263	263	263	263	263	263	263	263	260	260	260	260	263	263	263	263	263	263	263	263	263	261	261	261	261	261
YPKA	GT11	64	64	64	65	65	64	65	65	64	65	65	65	65	65	65	64	65	65	132	134	133	117	121	122	124	123	121	124	125	123	123	123	123	123	124	110	63	63	63	130	127	125	126	127	126	127	126	128	128	
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	85	135	120	125	125	126	126	126	126	126	126	126	126	126	126	125	107	64	63	63	131	129	128	129	129	129	129	129	129	129		
YPKA	ST10	33	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	33	54	100	126	117	119	120	121	120	118	119	121	121	122	121	122	121	121	122	119	79	77	77	125	123	122	123	122	122	122	122	122		
YPKA	GT21	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	127	133	132	137	132	133	133	130	125	135	131	131	131	129	128	129	100	65	65	65	70	123	123	123	123	122	123	123	123	123	123		
YPKA	ST20	38	38	38	38	38	38	38	37	38	37	37	38	38	37	37	38	37	38	59	64	64	63	63	63	63	63	63	63	63	63	63	62	62	62	62	53	39	39	38	38	61	61	61	61	61	61	61	61	61	
Total CCGT-Gas		5277	4915	4657	4434	4290	4226	4008	3899	3810	3730	3637	3664	3746	3841	3591	3836	4014	4760	5221	5406	5712	5816	5950	6122	6043	5813	5748	5884	6038	6132	6150	5726	5942	5887	5610	5369	5180	5294	5528	5932	5878	5846	5809	5711	5745	5622	5597	5418		
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	0	0	0	0	0	0	8	113	114	114	114	113	113	113	29	0	0		
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	109	108	108	108	107	108	69	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	0	0	0	0	0	0	0	0	123	123	123	122	122	89	67	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	0	0	0	0	0	0	0	96	125	124	126	125	89	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	0	0	0	0	0	0	0	8	317	470	470	471	468	432	309	204	69	0	
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	13	12	12	12	12	12	12	12	12	12	12	12	12	12	11	12	0	0	0	0	0	0	0	0	0	0	0	
BSIA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	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	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
KNRG	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	0	0	0	0	0	37	37	37	37	37	37	37	37	37	37	37	37			
KNRG	HY02	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	39	39	39	38	38	38	38	38	38	38	38	38				
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	61	61	61	95	95	95	95	95	95	95	95	95	95	95	95	94	94	95	95	95	95	95	95	95	95	95		
KNYR	HY02	56	56	56	56	56	56	56	56	56	56	57	58	58	58	58	58	58	57	56	55	55	57	58	58	59	60	95	97	97	97	97	94	94	97	97	97	97	97	96	97	97	96	96	97	97	97	97	97		
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	58	85	63	62	63	95	95	95	95	95	94	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95			
MNOR	HY01	5	5	5	5	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	6	6	6	6	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6				
PGAU	HY01	16	22	22	22	22	22	22	22	19	22	22	22	22	22	22	22	22	21	19	22	22	22	22	22	22	17	22	22	22	22	20	20	21	21	21	21	19	22	22	21	22	22	21	22	22	22				
PGAU	HY02	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21					
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	21	21	0	20	21	22	22	22	81	22	21	22	21	21	0	0	29	29	29	29	29	22	22	22	22			
SIHY	HY01	0	0	52	50	50	50	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	32	51	51	51	51	32	32	32	32	31	50	50	50	50	50	30	30	30	30	30	30	30	30			
SIHY	HY03	0	0	0	0	0	37	51	51	51	51	51	51	51	51	51	51	51	0	0	0	0	0	0	32	32	32	32	51	51	51	51	32	32	32	32	30	50	50	50	50	50	30	30	30	30	30	30	30		
SYPS	HY01	0	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0	0	0	0	16	16	16	0	0	0	0	25	16	16	16	16	16	25	0	0	17	17	17	17	0	0	0	0	0		
SYPS	HY02	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0	0	0	0	16	16	16	0	0	0	0	24	17	16	16	16	16	24	0	0	17	17	17	17	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	16	16	16	16	16	25	16	16	16	16	16	16	16	16	25	25	25	25	17	17	17	17	17	17	17	17			
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16</																								

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 Co-Gen		43	47	45	48	48	45	48	45	45	45	46	48	45	44	46	44	46	45	43	44	46	44	43	42	41	40	41	43	42	41	41	43	42	41	41	41	41	42	41	41	39	41	40	38	39	41	41	
Total Gen		14366	13955	13756	13491	13233	13128	12878	12762	12624	12470	12405	12476	12547	12613	12338	12211	12408	13143	13657	14043	14504	14750	15063	15218	15103	14850	14846	15032	15233	15403	15291	15249	15200	15141	14764	14629	14384	14447	15006	15624	15531	15485	15455	15295	15080	14868	14635	14385
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		30	31	31	31	31	30	30	31	31	30	30	31	31	31	30	30	29	29	31	31	30	30	31	31	30	30	30	30	30	31	31	31	30	31	31	31	31	31	31	30	30	30	30	29	29	30		
TIE-PLTG		-39	-75	-35	-24	-12	8	4	30	17	-22	5	-27	-35	-8	7	-24	-33	19	24	27	3	4	27	64	-8	-9	51	25	5	-3	-21	10	-47	-8	8	-32	23	-11	-36	-7	39	-3	4	24	13	37	-34	-41
Interconnection		-9	-44	-5	6	18	38	34	60	47	7	34	4	-4	23	38	6	-3	49	55	58	33	34	57	93	21	22	82	55	35	28	10	40	-17	22	38	-1	54	20	-5	24	70	27	34	55	44	67	-4	-11
System Total		14383	14007	13769	13493	13223	13098	12852	12710	12585	12471	12379	12480	12559	12598	12308	12215	12424	13114	13620	14026	14518	14766	15060	15168	15115	14881	14805	15023	15241	15401	15314	15242	15239	15138	14742	14642	14341	14435	15018	15608	15469	15466	15429	15247	15043	14808	14646	14404
SRev ST-Coal		146	153	151	79	95	171	79	82	166	55	28	-11	87	106	91	75	59	275	275	233	128	117	122	112	117	121	123	123	111	101	126	108	116	124	118	122	124	121	142	127	122	138	132	119	178	164	109	111
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	101	27	-3	-3	-4	-1	35	32	137	40	0	
SRev CCGT-Gas		971	1060	1219	1291	1291	1355	1438	1547	1636	1716	1809	1782	1700	1605	1855	1610	1432	974	855	809	558	667	533	361	440	670	735	599	445	565	547	597	381	436	713	954	1143	1029	795	391	445	477	514	398	364	487	512	504
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	
SRev 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 Co-Gen		11	7	9	6	6	9	6	9	9	9	8	6	9	10	8	10	8	9	11	10	8	10	11	12	13	14	13	11	12	13	13	11	11	12	13	13	13	13	12	13	13	15	13	14	16	15	13	13
Syncon		898	898	898	898	898	898	898	898	898	898	898	898	898	898	898	898	898	711	711	524	439	338	252	252	337	423	423	337	252	252	337	0	126	126	338	338	338	423	423	337	337	337	337	337	524	524	610	610
Hydro		386	377	377	377	377	389	373	374	379	373	373	370	370	371	371	372	371	374	376	381	432	612	713	739	684	602	354	543	592	575	595	570	701	696	589	517	521	336	350	538	582	579	577	566	585	587	533	532
S.Reserve Total		2512	2495	2654	2651	2667	2822	2794	2910	3088	3051	3116	3045	3064	2990	3223	2965	2768	2343	2228	1957	1565	1744	1631	1476	1591	1830	1648	1613	1412	1506	1618	1286	1335	1394	1771	1944	2139	2023	1749	1403	1496	1542	1572	1469	1699	1914	1817	1770