

## Daily System Generation Summary on Thursday

Thursday, January 25, 2018

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,441 MW
Hydro	2,507 MW
Distillate	0 MW
<b>Total TNB</b>	<b>4,948 MW</b>
<b>Total IPP</b>	<b>15,838 MW</b>
<b>Total Co-Gen</b>	<b>57 MW</b>
<b>Total System</b>	<b>21,407 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	31,283	9.19 %
Hydro	32,666	9.59 %
<b>Total TNB</b>	<b>63,949</b>	<b>18.78 %</b>
ST-Coal	182,908	53.72 %
Gas	91,693	26.93 %
<b>Total IPP</b>	<b>274,601</b>	<b>80.66 %</b>
Co-Gen	1,331	0.39 %
<b>Total Co-Gen</b>	<b>1,331</b>	<b>0.39 %</b>
<b>Total Generation</b>	<b>339,881</b>	<b>99.83 %</b>
PLTG	122	0.04 %
HVDC	-696	-0.20 %
<b>Interconnection</b>	<b>-574</b>	<b>-0.17 %</b>
<b>Net Energy</b>	<b>340,455</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:	14:30:00 Hour
Total Set On Bus	17,505 MW
TNB Generation	3,410 MW
IPP Generation	12,844 MW
Spinning Reserve	1,194 MW
Maximum Demand	16,340 MW
Net Energy	340,455 MWH
Load Factor	86.82 %

### Fuel Cost

Total Cost:	57,771,382.37 RM
Cost per Unit	18.80 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	719
Hydro	462
Syncon	224
Thermal	147
<b>Total</b>	<b>1,552</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
GLGR	46
PAKA	1
PGPS	29
SRDG	6
TJGS	150
<b>Total TNB</b>	<b>232</b>

CBPS	50
KLPP	88
MPSS	21
NPRI	148
PGLA	101
PLPS	76
PTEK	2
SGB3	46
SKSP	44
YPKA	36
<b>Total IPP</b>	<b>612</b>
<b>Total Gas</b>	<b>844</b>

<b>Total Gas Required</b>	<b>844</b>
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### 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	13088	12445	12043	11775	11513	11519	12063	12214	12595	14125	14990	15710	15749	15377	16053	16208	16134	15900	14868	14865	15645	15561	14930	14356

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Checked By: -Select Name-

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(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi





### Daily MW Generation on Thursday

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																												
UPIA	HY02	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S																												
Total Hydro		929	818	775	795	768	787	758	806	769	831	789	811	913	966	898	890	914	1265	1307	1590	1624	1630	1714	1721	1722	1706	1720	1764	1838	1875	1876	1892	1898	1924	1905	1755	1855	1753	1783	1678	1605	1562	1555	1566	1444	1314	1248	919				
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	0	0	0	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	CUFK	26	25	25	25	23	26	24	26	25	26	26	25	25	25	26	26	27	19	8	5	4	13	22	22	22	22	29	28	27	26	26	28	27	24	24	25	27	27	27	27	26	26	27	27	12	10	10	12	13			
PCUF	CUFK	33	34	33	34	34	34	33	34	34	33	33	35	34	33	35	33	35	33	34	33	33	33	33	32	34	30	30	30	31	31	31	30	30	31	31	34	34	33	37	33	33	34	32	34	33	35	34	32				
Total Co-Gen		59	59	58	59	57	60	57	60	59	59	59	60	59	58	61	59	62	52	42	38	37	46	55	54	56	59	58	57	57	57	59	57	54	55	56	61	61	60	64	59	59	61	59	46	43	45	46	45				
Total Gen		13026	12805	12400	12240	11986	11889	11732	11696	11461	11537	11447	11526	12040	12329	12162	12240	12540	13547	14065	14654	14963	15291	15701	15902	15717	15484	15367	15701	16062	16311	16231	16172	16118	16223	15910	15307	14898	14685	14833	15570	15655	15585	15550	15295	14909	14623	14321	13973				
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	0		
TIE-HVDC		-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28		
TIE-PLTG		-33	-6	-16	0	-28	-44	-13	-38	-23	-13	-44	-9	7	25	-23	-2	-26	-2	-31	30	1	32	21	21	-3	-15	18	9	39	0	52	12	13	6	39	93	59	36	-3	40	39	16	18	37	9	-27	-6	-20				
Interconnection		-62	-35	-45	-30	-57	-72	-43	-67	-52	-42	-72	-38	-23	-4	-52	-30	-55	-31	-60	1	-27	3	-9	-9	-32	-43	-10	-20	9	-29	23	-17	-16	-23	10	64	30	6	-32	11	10	-12	-11	7	-21	-55	-35	-49				
System Total		13088	12840	12445	12270	12043	11961	11775	11763	11513	11579	11519	11564	12063	12333	12214	12270	12595	13578	14125	14653	14990	15288	15710	15911	15749	15527	15377	15721	16053	16340	16208	16189	16134	16246	15900	15243	14868	14679	14865	15559	15645	15597	15561	15288	14930	14678	14356	14022				
SRev ST-Coal		173	227	330	157	168	204	185	388	402	397	394	391	233	243	251	246	217	164	272	272	197	141	60	134	156	145	128	133	129	135	138	113	117	119	113	74	97	160	185	174	132	130	138	119	183	198	249	279				
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	0	
SRev CCGT-Gas		1464	1323	1603	1715	1913	1878	1942	1826	1936	1852	1903	1857	1616	1401	1516	1603	1504	1130	1281	1001	983	969	735	547	758	1203	1349	960	645	427	617	624	628	488	789	1286	1611	1614	1475	639	523	554	572	627	824	754	724	487				
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	0
SRev Co-Gen		-2	-2	-1	-2	0	-3	0	-3	-2	-2	-2	-3	-2	-1	-4	-2	-5	5	15	19	20	11	2	3	1	-2	-1	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		500	802	953	953	953	953	766	579	579	579	579	579	827	827	827	827	525	525	374	374	374	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187		
Hydro		654	563	431	411	438	419	449	402	439	397	439	417	469	440	508	516	492	593	551	419	385	379	482	475	474	490	476	432	458	445	444	428	422	396	416	379	465	467	437	442	465	508	515	504	626	582	497	338				
S.Reserve Total		2789	2913	3316	3234	3472	3451	3342	3192	3354	3223	3313	3241	3163	2910	3098	3190	3035	2417	2644	2132	1957	1871	1464	1344	1574	2020	2137	1803	1419	1194	1382	1351	1405	1192	1319	1922	2356	2425	2277	1440	1305	1375	1410	1448	1834	1883	1969	1942				