

Daily System Generation Summary on Thursday

Thursday, November 28, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,467 MW
Distillate	0 MW
Total TNB	2,467 MW
Total IPP	14,195 MW
Total Co-Gen	65 MW
Total System	18,385 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,718	4.61 %
Gas	29,169	8.04 %
Total TNB	45,887	12.65 %
ST-Coal	194,546	53.65 %
ST-Gas	5,265	1.45 %
LSS	1,662	0.46 %
Gas	113,458	31.29 %
Total IPP	314,931	86.85 %
Co-Gen	503	0.14 %
Total Co-Gen	503	0.14 %
Total Generation	361,321	99.64 %
PLTG	-50	-0.01 %
HVDC	-1,246	-0.34 %
Interconnection	-1,296	-0.36 %
Net Energy	362,617	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:00:00 Hour
Total Set On Bus	19,017 MW
TNB Generation	2,607 MW
IPP Generation	14,394 MW
Spinning Reserve	1,996 MW
Maximum Demand	17,156 MW
Net Energy	362,617 MWH
Load Factor	88.07 %

Fuel Cost

Total Cost:	67,915,549.53 RM
Cost per Unit	18.79 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	421
Hydro	698
Syncon	723
Thermal	187
Total	2,029

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	52
PAKA	27
PGPS	41
SRDG	4
TJGS	102
Total TNB	226
CBPS	53
KLPP	70
MPSS	45
NPRI	158
PKLG	3
PLPS	88
PTEK	19
SGB3	30
SGRI	152
SKSP	52
YPKA	77
PKLG	54
Total IPP	802
Total Gas	1,028
Total Gas Required	1,028

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	14499	13801	13290	13008	12581	12483	12632	12893	13406	15211	16118	16745	16609	16294	16757	17156	17082	16814	15807	16085	16353	16133	15621	15129

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, December 05, 2019 8:49:14 AM

(Ir. Shanmugam Thoppalan)
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																									
JMAH	U001	682	683	681	684	693	693	692	692	692	691	694	694	693	692	693	693	691	693	693	682	681	680	681	683	682	682	683	681	682	679	681	683	679	682	681	678	681	683	683	680	669	685							
JMHE	U001	981	975	983	817	817	822	820	820	820	821	820	820	821	819	819	820	856	978	982	978	980	982	982	981	981	975	981	982	974	980	982	980	982	982	981	980	980	976	979	980	980	982	976	979	980	975	979		
JMHE	U002	1001	991	900	817	816	822	820	819	819	821	820	823	821	820	818	820	821	837	949	950	1009	1009	1011	1008	1008	1006	1009	1012	1002	1010	1010	1010	1012	1010	1012	1012	1010	949	950	949	950	950	948	949	950	947	949		
JMJG	U003	657	662	665	658	667	669	668	665	663	666	669	670	666	676	666	661	662	664	660	662	662	662	657	656	664	662	661	661	664	654	661	659	662	662	662	659	664	667	656	665	665	662	662	660	657	663			
JMJG	U005	977	975	979	839	815	820	822	822	820	821	822	823	819	821	823	821	891	977	991	981	974	976	978	978	975	972	977	978	976	978	977	973	977	973	975	977	978	977	976	977	977	977	977	977	976				
PKLG	U003	283	281	281	281	281	280	281	283	279	282	284	283	282	280	281	282	280	282	281	282	286	280	283	281	282	283	282	281	277	281	283	281	281	283	281	280	276	280	283	281	279	284	282	281					
PKLG	U004	281	284	281	281	279	278	279	279	279	281	281	279	280	285	280	280	281	280	279	282	279	280	280	280	279	277	277	278	283	280	280	280	281	281	279	280	280	279	280	281	280	277	280	281	281	280	282		
PKLG	U005	463	461	462	463	463	462	460	462	463	462	463	464	466	466	464	463	462	462	462	462	463	463	463	462	462	463	464	463	463	463	463	463	464	462	463	467	466	469	462	462	463	242	0	0	0	0			
TBIN	U001	680	679	680	680	688	691	689	690	690	689	689	689	689	690	689	691	689	690	689	688	678	679	681	680	679	679	681	679	680	680	676	678	681	679	679	680	678	680	680	678	679	680	680	680	680	680			
TBIN	U002	684	684	685	682	693	692	692	694	691	694	691	686	691	692	687	693	693	690	691	691	682	684	681	682	682	681	683	682	682	681	685	684	683	685	682	684	683	681	682	683	683	681	683	681	683	682			
TBIN	U003	681	681	681	682	690	690	690	691	691	689	689	691	692	691	694	688	695	689	692	691	692	681	682	681	682	681	682	682	679	683	682	681	683	681	682	682	683	681	681	682	681	681	681	681	681	682			
TBIN	U004	983	982	982	897	822	822	822	823	824	822	822	824	821	822	822	823	823	960	982	983	983	983	984	982	980	980	981	983	981	982	983	982	983	983	983	982	983	982	981	982	982	981	982	983	983				
Total ST-Coal		8353	8338	8260	7781	7724	7742	7735	7738	7735	7734	7741	7749	7743	7752	7741	7740	7755	7843	8203	8355	8341	8357	8368	8365	8357	8346	8341	8362	8366	8345	8364	8352	8364	8367	8367	8354	8365	8365	8295	8311	8288	8297	8302	8075	7834	7834	7814	7842	
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PKLG	U001	140	140	140	140	140	140	144	144	144	144	144	144	144	144	144	186	200	200	198	140	115	142	142	142	140	140	140	140	140	140	140	146	146	146	146	146	147	147	146	147	147	146	147	147	147	147			
PKLG	U002	146	146	142	66	67	112	147	147	147	146	146	146	146	147	146	146	190	200	200	140	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total ST-Gas		286	286	282	206	207	252	287	291	291	290	290	290	290	290	290	290	376	400	400	400	400	438	280	115	142	142	140	140	140	140	146	146	146	146	146	146	147	147	147	147	146	147	146	147	147	147	147		
CBPS	BLK2	349	350	343	354	357	350	348	350	349	222	220	221	296	372	364	368	355	362	369	353	361	360	357	359	354	354	352	360	357	354	354	356	361	356	355	357	357	354	355	356	360	355	358	358	356	356	362	357	
GLGR	GT01	67	68	68	68	67	69	68	67	68	69	68	67	66	67	69	100	100	100	101	101	98	98	98	98	98	99	99	99	99	100	100	100	100	100	100	100	100	67	69	85	102	102	102	103	103	102	102	102	101
GLGR	GT02	68	68	69	69	68	68	69	68	68	68	68	68	69	69	69	68	68	68	102	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	101	101	67	68	87	103	103	103	103	102	102	102	102	103	
GLGR	ST1C	71	71	70	70	70	70	70	70	71	70	71	71	70	71	71	70	71	89	90	91	90	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	77	72	78	92	92	92	92	92	92	92	92		
KLPP	GT14	124	130	124	124	136	131	99	81	77	80	80	81	78	84	80	78	142	147	133	127	142	145	145	138	126	142	141	140	147	136	131	143	142	144	132	136	125	128	148	142	130	129	130	147	147	130	148	122	
KLPP	GT15	122	122	117	122	131	126	105	73	74	75	74	75	75	77	86	140	137	129	121	133	137	138	133	121	134	131	133	131	133	133	136	125	128	116	121	138	136	123	132	133	137	121	141	122					
KLPP	ST17	123	123	123	123	129	129	114	82	82	82	82	82	86	87	86	132	132	128	124	132	138	128	128	132	132	140	137	135	135	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140				
MPSS	GT01	87	90	89	88	90	88	90	90	87	89	89	90	88	91	89	89	86	90	100	100	101	100	101	100	100	100	99	100	100	100	100	102	102	71	71	72	83	104	104	104	105	70	71	71	105	104			
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	101	100	100	101	99	100	100	99	99	100	99	100	101	102	103	102	72	74	74	84	103	104	104	105	71	73	73	0	0		
MPSS	ST01	35	38	37	37	38	37	36	36	36	37	37	37	36	38	37	37	34	37	62	105	105	106	106	106	107	107	107	107	107	107	107	106	105	104	104	77	67	67	71	107	108	108	108	69	67	66	45	47	
NPRI	BLK1	506	511	500	509	515	514	515	511	413	443	384	452	477	527	520	518	510	521	517	517	510	517	520	521	521	521	511	519	514	520	520	514	513	520	520	522	520	520	520	520	521	520	521	523	521	521	524	517	
NPRI	BLK2	508	515	502	511	518	516	519	524	416	443	389	457	476	530	523	521	512	524	520	518	523	524	524	521	515	523	517	522	523	517	516	523	523	523	524	522	522	523	522	521	522	521	522	521	523	523	527	518	
PAKA	GT4B	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80		
PAKA	ST4C	41	41	41	41	41	41	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40			
PCGP	PGRG	596	601	579	593	602	600	602	602	595	604	602	603	599	619	602	598	582	604	597	594	602	601	603	603	583	604	595	602	605	598	592	601	601	607	601	600	603	599	602	604	601	599	607	596	601	603	609	592	
PGPS	GT3A	0	0	0	0	0																																												

Daily MW Generation on Thursday

[illegible]

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0