

Daily System Generation Summary on Friday

Friday, October 25, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,417 MW
Distillate	0 MW
Total TNB	2,417 MW
Total IPP	15,541 MW
Total Co-Gen	0 MW
Total System	20,255 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,428	4.02 %
Gas	42,196	11.75 %
Total TNB	56,624	15.76 %
ST-Coal	192,408	53.56 %
ST-Gas	4,003	1.11 %
LSS	2,132	0.59 %
Gas	103,360	28.77 %
Total IPP	301,903	84.04 %
Co-Gen	915	0.25 %
Total Co-Gen	915	0.25 %
Total Generation	359,442	100.05 %
PLTG	-546	-0.15 %
HVDC	731	0.20 %
Interconnection	185	0.05 %
Net Energy	359,257	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:	15:30:00 Hour
Total Set On Bus	18,634 MW
TNB Generation	2,855 MW
IPP Generation	14,177 MW
Spinning Reserve	1,563 MW
Maximum Demand	17,074 MW
Net Energy	359,257 MWH
Load Factor	87.67 %

Fuel Cost

Total Cost:	66,852,858.48 RM
Cost per Unit	18.59 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	500
Hydro	303
Syncon	1,029
Thermal	148
Total	1,980

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	8
PAKA	47
PGPS	30
TJGS	218
Total TNB	302
CBPS	55
KLPP	93
MPSS	40
PGLA	111
PKLG	2
PLPS	95
SGB3	78
SGRI	88
SKSP	48
YPKA	74
PKLG	41
Total IPP	725
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	14337	13638	13278	12974	12747	12561	12673	12882	13264	14823	15730	16277	16337	15969	16330	16929	17064	16614	15712	15942	16189	16006	15472	15147

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 06, 2019
8:51:13 AM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Friday

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	693	693	694	693	693	695	692	693	692	693	687	694	692	692	692	691	693	692	691	692	694	692	693	692	692	693	692	694	693	691	694	692	692															
JMAH	U002	689	695	693	695	693	693	695	694	695	690	695	695	694	693	697	694	693	693	695	703	693	697	692	693	692	693	694	695	695	696	695	694	694	693	694	693	694	692	696									
JMHE	U001	963	900	784	786	789	790	789	789	793	794	792	790	791	786	788	789	790	790	887	983	981	981	983	982	984	977	979	975	982	976	982	981	979	982	980	975	982	976	977	975	979							
JMJG	U001	585	584	579	590	599	590	585	587	587	585	585	589	587	581	589	587	591	586	584	588	588	585	584	586	589	592	590	585	589	585	587	591	588	587	587	586	585	587	590	585	588	590	589	587	586	585	589	578
JMJG	U004	953	904	862	788	787	788	789	790	791	791	785	789	789	780	788	788	787	786	824	958	957	958	959	960	958	957	958	955	952	955	957	958	956	956	958	958	960	958	960	958	956	957	958	958	957	958		
JMJG	U005	970	896	830	786	792	799	791	789	791	787	791	790	791	792	791	791	789	714	818	834	951	974	982	979	973	976	976	979	978	979	977	983	977	980	977	978	980	982	981	977	977	976	976	978	980	977	977	976
PKLG	U003	281	283	281	282	281	282	294	282	282	283	287	284	282	281	283	279	281	280	283	283	282	281	284	280	285	282	282	281	282	283	282	283	284	286	283	281	280	283	283	285	279	281	279	282	281	274	282	284
PKLG	U004	280	279	279	278	279	279	276	282	280	280	279	277	279	278	279	280	286	282	281	282	281	279	281	279	286	278	280	280	281	281	280	278	278	279	279	280	280	281	282	280	278	278	279	280	280	279	282	282
PKLG	U005	466	466	469	470	468	468	468	470	468	469	469	466	466	466	470	468	469	470	470	473	470	468	470	468	470	470	470	470	474	472	472	472	470	467	471	468	468	471	468	468	470	471	468	468	470	469	469	
TBIN	U002	692	692	687	686	690	689	693	686	687	692	691	687	690	694	693	687	688	686	690	689	689	689	692	685	690	692	690	689	689	689	693	690	691	689	690	691	689	690	691	689	685	682	689	690	690	687	690	692
TBIN	U003	690	691	691	692	694	688	696	692	691	693</																																						

Daily MW Generation on Friday

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	GT1A	220	227	227	226	226	228	223	206	216	209	221	227	231	225	230	220	214	226	219	225	223	223	224	224	225	225	220	223	224	224	222	222	224	223	222	221	223	222	218	225	220	219	222	222	221	222	220	217		
TJGS	GT1B	210	219	216	218	218	220	217	198	205	199	215	217	218	219	215	216	207	217	217	217	218	216	217	216	215	215	211	216	214	216	215	215	218	217	215	217	214	214	212	215	215	216	217	214	216	210	214	209		
TJGS	ST1C	238	242	242	242	242	238	242	239	239	223	247	238	245	248	243	240	242	246	246	246	246	246	246	249	249	249	246	246	246	249	249	249	249	249	249	249	249	249	246	246	246	242	242	242	242	242	238			
TJGS	GT2A	216	216	216	216	216	216	216	187	150	150	187	212	212	212	212	212	213	213	213	213	212	212	212	212	211	211	211	211	211	211	211	211	211	212	211	211	211	211	211	211	211	211	211	211	211	211	211			
TJGS	GT2B	211	211	211	211	211	211	211	183	145	145	182	208	208	208	209	209	209	209	209	208	208	206	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208			
TJGS	ST2C	256	254	254	254	254	254	254	233	206	206	232	250	250	250	250	250	250	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253	253				
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	115	112	111	112	112	111	111	66	66	66	99	111	111	112	111	112	111	112	104	95	112	112	112	111	111	112	112	111	112	112			
YPKA	GT12	122	66	66	66	66	65	65	65	65	65	66	65	65	66	66	65	66	137	142	138	138	138	136	135	134	67	66	67	106	136	137	136	135	133	136	135	115	100	135	136	136	137	139	137	137	137	139	140		
YPKA	ST10	56	31	31	30	30	30	30	30	30	30	30	30	30	31	30	30	30	54	116	117	118	119	119	119	120	79	79	79	94	118	119	119	119	119	119	119	119	111	107	118	119	119	119	119	120	120	119	120		
YPKA	GT21	136	65	65	65	65	65	65	65	65	65	64	65	64	65	65	65	65	136	135	133	133	133	133	130	129	66	65	66	107	131	132	131	129	129	128	130</														

Daily MW Generation on Friday

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
Total Hydro		540	547	546	627	610	630	578	579	598	386	257	255	256	395	392	507	481	617	612	492	557	557	621	638	639	661	635	658	637	644	850	854	845	851	850	750	602	551	658	754	758	736	734	644	483	484	481	478	
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	13	13	21	13	24	27	14	29	11	6	1	0	1	6	11	7	7	5	3	1	0	0	0	0	0	0	0	0	0	0	0
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	12	16	28	22	28	24	23	35	41	48	32	12	3	9	9	12	12	8	4	2	0	0	0	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	33	33	33	45	43	33	22	22	32	43	32	11	21	11	11	0	0	0	0	0	0	0	0	0	0	0	0	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	24	27	37	42	34	42	47	47	46	41	48	42	8	8	1	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	16	16	26	18	30	45	32	34	43	50	49	40	23	36	33	20	10	4	4	2	1	0	0	0	0	0	0	0	0	0	0	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	18	18	14	23	37	32	35	46	27	36	44	24	34	19	43	4	3	4	3	3	0	0	0	0	0	0	0	0	0	0	0	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	24	29	22	42	46	49	50	50	25	27	20	18	28	30	23	28	23	18	9	6	0	0	0	0	0	0	0	0	0	0	0	0
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	9	14	18	24	28	48	47	33	53	53	42	48	52	14	21	41	20	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	8	15	23	24	37	31	32	41	23	23	38	16	23	11	15	21	23	10	10	4	1	0	0	0	0	0	0	0	0	0	0	0
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	46	105	141	159	217	298	324	322	327	331	326	242	242	188	201	174	110	79	56	34	6	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	25	30	30	29	29	31	29	29	29	28	31	30	30	30	31	29	30	30	29	30	29	30	28	28	27	26	26	27	26	26	27	26	28	27	26	29	28	28	29	28	29	29	30	4	2	4	1	5	
PCUF	CUFK	12	13	11	13	12	12	12	12	12	13	12	13	12	11	13	12	11	13	11	12	13	12	11	11	13	13	13	14	11	12	12	13	12	14	11	13	12	13	12	13	12	13	10	12	11	12			
Total Co-Gen		37	43	41	42	41	43	41	41	41	41	43	43	42	41	44	41	41	43	40	42	42	40	39	41	40	39	40	38	40	39	39	39	42	38	39	41	41	41	41	41	41	43	17	12	16	12	17		
Total Gen		14335	13990	13668	13492	13281	13283	12966	12788	12743	12477	12543	12630	12720	12899	12843	12832	13319	14233	14872	15319	15724	16092	16270	16460	16306	16174	15967	15940	16358	16652	16959	17071	17056	16973	16685	16163	15706	15530	15914	16389	16164	16155	16009	15810	15505	15266	15149	14892	
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	
TIE-HVDC		31	30	30	31	31	30	30	31	31	30	30	30	30	31	31	31	31	30	30	31	31	30	30	31	31	30	30	31	31	30	30	31	31	31	31	30	30	30	31	31	31	31	31	31	30	30	29		
TIE-PLTG		-29	-31	4	17	-23	-61	-34	-16	-31	-41	-44	-16	21	15	-66	11	28	-5	24	-41	-33	-23	-33	-36	-57	-61	-29	-23	2	-9	3	-30	-35	-54	44	-14	-32	-74	-54	-26	-51	-54	-24	-42	6	-6	-25	-6	
Interconnection		2	-1	34	47	7	-31	-4	14	0	-10	-14	14	51	46	-35	42	59	25	53	-10	-2	8	-3	-5	-27	-31	2	8	32	21	34	1	-4	-23	75	15	-2	-44	-24	5	-21	-23	7	-11	37	25	6	23	
System Total		14337	13995	13638	13449	13278	13318	12974	12778	12747	12491	12561	12620	12673	12857	12882	12794	13264	14212	14823	15333	15730	16088	16277	16469	16337	16209	15969	15936	16330	16635	16929	17074	17064	17000	16614	16152	15712	15578	15942	16388	16189	16182	16006	15825	15472	15245	15147	14873	
SRev ST-Coal		153	406	455	445	437	445	430	440	446	444	442	444	452	452	439	436	438	332	320	153	88	92	103	109	99	110	105	102	105	102	106	96	117	106	122	109	115	97	95	116	112	110	120	106	113	128	115	115	
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	18	-2	-3	-3	-2	-3	-1	-4	-3	-3	-1	-3	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		745	621	658	751	992	1007	1276	1443	1509	1564	1371	1283	1182	1138	1208	1349	1014	915	715	595	621	590	596	434	601	749	938	988	550	271	218	192	354	301	535	697	909	1009	759	428	659	590	546	537	614	703	826	795	
SRev ST-Gas		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	34	34	34	34	34	35	35	35	34	34	38	38	38	42	20	6	5	5	44	39	35	36	1	3	38	34	34	34	34	34	34	
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		28	22	24	23	24	22	24	24	24	24	22	22	23	24	21	24	24	22	25	23	23	23	25	26	24	25	26	25	27	25	26	26	26	23	27	26	24	24	24	24	24	22	48	53	49	53	48		
Syncon		974	974	974	697	848	848	848	848	848	949	1075	1075	1075	974	1100	949	1100	848	848	1100	1100	1100	1100	1100	1100	949	1100	949	1100	1100	913	913	913	913	913	1100	1100	1100	949	949	1100	1100	1100	1100	1100	1100	1100	1100	
Hydro		326	319	320	516	382	378	305	318	299	310	313	285	284	246	248	384	259	375	380	248	283	283	319	302	301	430	305	433	303	296	327	323	338	332	333	246	244	268	261	366	362	233	235	325	236	235	238	241	
S.Reserve Total		2264	2380	2469	2470	2721	2738	2921	3111	3164	3329	3261	3177	3084	2902	3054	3180	2873	2526	2322	2153	2149	2122	2196	2004	2157	2294	2506	2532	2122	1828	1629	1567	1753	1677	1934	2222	2431	2533	2275	1884	2109	2095	2057	2150	2150	2249	2366	2333	