

Daily System Generation Summary on Monday

Monday, October 29, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,018 MW
Distillate	0 MW
Total TNB	4,820 MW
Total IPP	15,083 MW
Total Co-Gen	44 MW
Total System	20,233 MW

Generation Mix

Type	MWh	Percentage
Gas	47,055	13.17 %
Hydro	16,456	4.60 %
Total TNB	63,511	17.77 %
ST-Coal	198,666	55.59 %
Gas	93,583	26.18 %
Total IPP	292,249	81.77 %
Co-Gen	976	0.27 %
Total Co-Gen	976	0.27 %
Total Generation	356,736	99.81 %
PLTG	-57	-0.02 %
HVDC	-611	-0.17 %
Interconnection	-668	-0.19 %
Net Energy	357,404	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:	15:30:00 Hour
Total Set On Bus	18,657 MW
TNB Generation	3,654 MW
IPP Generation	13,638 MW
Spinning Reserve	1,326 MW
Maximum Demand	17,356 MW
Net Energy	357,404 MWH
Load Factor	85.80 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	286
Hydro	581
Syncon	399
Thermal	117
Total	1,383

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
CBPS	39
GLGR	51
PGPS	29
SRDG	17
TJGS	209
Total TNB	345
KLPP	97
MPSS	40
NPRI	156
PDPS	1
PKLG	2
PLPS	93
PTEK	31
SGB3	92
SGRI	16
YPKA	80
Total IPP	607
Total Gas	952
Total Gas Required	952

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	13601	12974	12608	12181	11897	11832	12174	12270	13029	14989	15992	16638	16685	16459	17031	17239	17244	16769	15697	15938	16540	16369	15726	15220

Prepared By: Mohd Yusof bin Ismail

Checked By: -Select Name-

Printed on: Tuesday, October 30, 2018 4:01:52 AM
(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Monday

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	692	695	693	692	693	691	696	693	693	692	693	695	694	692	692	691	695	691	691	694	693	693	692	691	691	689	689	694	692		
JMAH	U002	695	701	689	697	696	694	698	695	697	698	697	694	695	697	696	698	696	697	696	698	695	697	695	695	694	690	697	696	697	694	
JMJG	U002	667	667	667	672	663	662	667	667	666	667	666	668	669	668	666	667	670	668	662	678	671	673	668	671	666	666	667	678	673	676	673
JMJG	U003	662	662	662	665	665	660	664	664	663	666	662	662	666	667	666	663	667	662	678	672	665	669	669	662	660	661	677	668	667	666	661
JMJG	U004	951	891	804	782	782	782	782	783	785	783	781	785	782	782	783	782	818	906	980	981	981	980	979	981	980	982	982	982	981	981	980
JMJG	U005	952	910	785	777	781	778	778	780	781	778	779	782	780	778	781	781	782	839	981	767	781	781	782	779	780	780	782	800	894	983	982
PKLG	U003	285	282	284	282	285	283	282	282	282	281	281	280	281	282	283	281	283	282	281	281	279	283	277	280	281	280	281	281	279	282	279
PKLG	U004	278	279	280	279	280	280	280	278	272	276	273	274	275	274	275	277	280	278	278	280	279	280	281	280	281	279	276	276	278	275	276
PKLG	U005	468	465	471	468	470	469	467	467	468	466	470	474	468	468	465	467	470	472	470	467	469	470	467	469	470	466	467	468	468	470	471
PKLG	U006	468	472	470	469	472	455	470	469	473	468	469	468	468	469	469	472	469	468	470	466	471	459	470	466	470	466	473	467	471	469	469
TBIN	U002	690	691	692	691	691	694	689	693	689	691	691	694	689	691	692	692	691	692	692	690	690	691	688	689	689	691	689	689	692	690	690
TBIN	U003	690	690	691	692	691	690	689	508	692	690	691	687	692	693	693	691	690	692	689	691	690	689	690	691	691	690	689	689	692	690	691
TBIN	U004	901	903	902	901	903	903	901	903	902	904	901	901	903	904	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902
Total ST-Coal		8399	8308	8090	8067	8072	8041	8063	7881	8061	8062	8056	8058	8063	8068	8064	8063	8074	8163	8378	8280	8266	8272	8261	8269	8252	8249	8261	8279	8290	8386	8464
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
Total 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
CBPS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	47	99	100	99	98	97	97	97	97	97	96	96	97	97
CBPS	GT1B	0	0	9	8	9	28	28	28	38	67	96	101	101	101	101	101	79	79	96	99	99	99	100	97	98	98	98	98	98	98	94
CBPS	ST1C	0	0	0	0	0	0	0	7	20	37	41	42	44	44	45	45	45	34	33	92	101	103	101	102	102	102	101	102	100	101	103
GLGR	GT01	68	69	69	70	69	67	68	69	67	69	68	69	69	67	68	68	69	68	83	101	100	101	101	99	100	101	100	100	98	100	99
GLGR	GT02	69	68	69	69	69	68	69	68	68	68	69	69	69	69	68	69	69	84	101	101	101	100	101	100	100	100	100	101	101	101	101
GLGR	ST1C	70	70	70	70	70	70	70	70	70	70	70	70	70	71	70	71	69	75	90	90	90	90	90	90	90	90	90	90	89	90	89
KLPP	GT13	113	109	109	109	65	65	63	65	65	66	66	68	67	70	66	68	69	138	145	144	144	146	145	146	146	146	145	144	145	145	143
KLPP	GT14	125	129	122	86	75	77	75	76	76	79	77	82	81	80	78	78	149	154	154	155	155	155	155	155	155	154	154	155	155	154	157
KLPP	GT15	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	148	153	150	150	154	154	154	152	152	153	153	154	153	154	
KLPP	ST17	182	121	121	113	85	85	81	82	82	81	81	81	81	83	76	82	155	192	204	205	205	205	205	205	205	204	203	203	203	202	202
MPSS	GT01	0	0	0	0	0	0	0	0	0	11	50	73	83	82	89	110	109	104	89	106	106	105	104	104	105	104	104	104	104	104	105
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	86	107	107	107	106	106	106	105	105	105	105	105	105	105
MPSS	ST01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	49	38	114	114	114	114	114	114	114	113	113	113	113
NPRI	BLK1	502	509	508	505	505	504	494	498	500	487	329	401	478	522	503	488	520	520	518	532	523	520	525	524	520	515	519	522	520	521	523
NPRI	BLK2	508	510	509	506	506	505	496	502	399	403	329	394	492	521	504	493	520	521	507	532	523	523	526	527	521	515	520	526	526	533	523
PCGP	PGRG	573	578	576	573	571	443	424	453	447	451	452	444	454	445	455	454	490	577	558	648	638	638	642	639	632	625	632	646	647	645	636
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	80	79	80	79	80	79	95	84	75	93	94	94	93	93	98	97	97	99	99	94	94
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	75	95	94	94	95	95	95	99	98	98	99	95	95	95
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	40	37	39	88	90	92	92	92	94	96	96	96	92	91	
PLPS	GT11	113	116	116	116	67	64	62	65	67	65	65	65	67	66	67	66	65	131	126	134	134	131	134	134	131	132	131	133	135	134	130
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	135	130	137	138	135	138	137	134	135	134	139	140	138	134	
PLPS	GT13	111	112	112	111	112	61	60	64	64	64	63	65	62	64	63	63	63	127	122	132	129	125	128	128	126	127	126	131	131	130	127
PLPS	ST18	135	133	134	132	127	92	87	90	90	90	91	91	91	91	91	90	91	212	210	213	211	211	213	211	212	211	212	213	210		

2 of 3

Daily MW Generation on Monday

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	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	25	16	16	16	25	25	25	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	65	64	65	64	34	34	34	79	80	80	80	65	65	64	63	32	31	62	62	61	62	61	62	-1	-1	-1	-1	-1	-1
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	65	65	65	65	34	34	34	84	84	84	84	65	65	63	62	33	32	64	64	64	65	63	33	-1	-1	-1	-1	-1	-1
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	63	63	63	33	33	33	60	60	60	60	60	60	58	57	31	30	60	60	60	60	60	0	0	0	0	0	0		
TMGR	HY04	32	33	33	33	33	32	31	33	33	33	33	33	33	33	33	33	33	33	33	64	64	64	64	34	34	34	61	61	61	60	61	61	59	58	31	30	61	61	61	61	59	30	24	31	27	28			
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	93	93	93	-1	-1	-1	97	95	92	86	92	86	85	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
UPIA	HY02	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	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		620	401	340	278	258	259	255	259	244	239	272	252	250	249	250	352	353	416	469	700	913	1055	1062	1080	1068	810	843	954	1094	1275	1233	1189	1139	1097	1077	800	672	619	766	934	941	945	1033	827	714	673	612	568	
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		
PCUF	CUFG	17	17	17	18	17	18	18	18	19	20	19	18	19	19	18	17	15	17	16	16	15	17	15	19	18	19	18	16	16	17	19	20	19	17	18	17	20	20	18	18	20	18	19	20	21				
PCUF	CUFK	24	23	23	22	22	22	23	25	22	23	24	22	20	21	23	23	23	23	21	23	22	23	22	21	23	24	24	22	24	23	23	24	24	23	22	22	22	22	22	22	23	23	22	22	23	23			
Total Co-Gen		41	40	40	40	39	40	41	44	41	43	44	41	38	40	42	41	41	40	36	40	38	39	37	39	36	42	42	43	40	40	39	40	43	44	43	40	39	42	42	40	41	43	40	41	43	44			
Total Gen		13627	13294	12963	12730	12565	12277	12136	12044	11880	11841	11771	11961	12159	12414	12323	12287	13021	14139	14922	15438	15878	16322	16525	16657	16607	16381	16358	16546	16914	17208	17189	17331	17213	17137	16718	16126	15640	15434	15929	16591	16492	16459	16359	16161	15748	15542	15192	14846	
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			
TIE-HVDC		29	29	29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-29	-29	-29	-30	-30	-30	-30	-30	-28	-28	-30	-29	-29	-29	-29	-29	-29			
TIE-PLTG		5	-47	-33	-17	-6	32	-8	11	19	-10	-24	-18	21	26	90	28	36	-33	-7	-38	-45	-16	-48	-48	-5	10	-21	-30	-23	-26	2	41	34	-34	-9	-28	-17	-40	29	12	-12	-25	28	27	59	-2	10	36	
Interconnection		34	-18	-3	-46	-35	3	-37	-18	-9	-39	-53	-47	-8	-4	61	-2	7	-61	-36	-66	-73	-44	-77	-77	-33	-19	-50	-59	-51	-55	26	11	4	-63	-38	-59	-47	-70	-1	-19	-40	-53	-2	-2	30	-31	-20	7	
System Total		13601	13320	12974	12784	12608	12282	12181	12070	11897	11888	11832	12015	12174	12426	12270	12300	13029	14223	14989	15541	15992	16410	16638	16786	16685	16468	16459	16677	17031	17291	17356	17244	17248	16769	16196	15697	15514	15938	16618	16540	16520	16369	16171	15726	15581	15220	14846		
SRev ST-Coal		78	210	277	90	85	116	94	76	-104	95	101	99	94	89	93	94	83	114	206	87	101	95	106	98	115	118	106	88	77	101	103	119	135	131	141	129	155	125	172	116	113	118	120	129	136	118	121	126	
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			
SRev CCGT-Gas		732	523	610	758	907	1166	1325	1240	1582	1614	1712	1530	1332	1231	1383	1522	1403	832	514	268	215	143	103	101	265	140	167	83	104	89	143	236	183	171	319	481	812	996	618	192	192	146	262	247	486	516	658	663	
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	14	10	5	8	10	6	15	23	7	17	-5	12	-9	-8	29	33	21	9	-4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev Co-Gen		3	4	4	4	5	4	4	3	0	3	1	0	3	6	4	2	3	3	4	8	4	6	5	7	5	8	2	2	1	4	4	5	4	1	0	1	4	4	5	2	2	4	3	1	4	3	1	0	
Syncon		610	761	761	862	862	862	862	862	862	862	711	862	862	862	862	862	862	761	761	761	439	252	252	252	439	239	353	252	252	252	252	252	252	439	439	741	590	439	439	439	439	675	761	761	761	761			
Hydro		502	470	431	392	385	384	388	384	389	384	512	382	384	384	383	380	379	417	464	396	589	634	627	633	645	726	809	725	671	592	634	578	628	670	690	579	700	451	455	588	581	577	589	475	378	369	430	375	
S.Reserve Total		1925	1968	2083	2106	2244	2532	2673	2565	2729	2958	3037	2873	2675	2572	2725	2874	2740	2132	1957	1530	1354	1205	1119	1104	1304	1428	1594	1387	1262	1126	1229	1348	1454	1408	1604	1744	2223	2429	1933	1422	1521	1322	1413	1527	1765	1767	1971	1925	