

Daily System Generation Summary on Saturday

Saturday, October 05, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,339 MW
Distillate	0 MW
Total TNB	2,339 MW
Total IPP	13,527 MW
Total Co-Gen	65 MW
Total System	18,805 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,986	3.51 %
Gas	43,291	12.67 %
Total TNB	55,277	16.18 %
ST-Coal	167,309	48.98 %
LSS	1,945	0.57 %
Gas	115,277	33.75 %
Total IPP	284,531	83.30 %
Co-Gen	1,176	0.34 %
Total Co-Gen	1,176	0.34 %
Total Generation	340,984	99.82 %
PLTG	-810	-0.24 %
HVDC	210	0.06 %
Interconnection	-600	-0.18 %
Net Energy	341,584	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:	19:30:00 Hour
Total Set On Bus	17,358 MW
TNB Generation	2,676 MW
IPP Generation	12,858 MW
Spinning Reserve	1,792 MW
Maximum Demand	15,559 MW
Net Energy	341,584 MWH
Load Factor	91.48 %

Fuel Cost

Total Cost:	67,017,922.13 RM
Cost per Unit	19.63 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	459
Hydro	430
Syncon	711
Thermal	202
Total	1,802

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
PAKA	48
PGPS	36
SRDG	9
TJGS	219
Total TNB	311
CBPS	55
KLPP	114
MPSS	45
PGLA	113
PKLG	7
PLPS	100
SGB3	94
SGRI	127
SKSP	37
YPKA	80
Total IPP	770
Total Gas	1,081
Total Gas Required	1,081

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	14537	13894	13446	13079	12868	12640	12602	12414	12358	13623	14475	15117	15136	15005	15296	15411	15323	14945	14514	15030	15506	15358	14833	14506

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, November 04, 2019 11:39:05 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																									
JMAH	U001	682	700	693	693	694	692	693	695	692	691	693	693	692	691	692	696	691	692	693	693	694	692	692	691	694	692	694	693	692	694	693	684	699	691	692	693	691												
JMAH	U002	695	695	694	694	693	693	694	694	693	696	691	694	694	697	693	697	694	692	684	695	692	693	690	694	694	693	692	693	693	695	694	692	695	694	692	695	693	695	695										
JMHE	U001	977	900	898	895	901	852	850	781	782	784	782	781	779	774	777	786	781	779	782	981	980	982	987	977	979	980	978	982	982	980	982	979	978	977	975	984	981	980	980	981	980	981	978	978	979	901	895		
JMHE	U002	752	749	749	748	753	750	750	751	751	754	750	752	750	744	745	754	752	722	494	320	325	324	176	0	0	0	0	0	0	0	110	138	412	496	805	812	365	315	501	500	501	501	500	498	498	671	750	748	
JMJG	U001	616	496	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	159	198	250	250	246	96	0	0	0	0	0	0	0	0					
JMJG	U003	664	663	666	594	579	575	588	579	649	670	671	668	677	669	667	668	668	668	668	667	667	670	666	660	666	663	662	662	668	658	667	583	589	591	587	589	591	587	588	590	542	584	594	577	595	593	596	592	
JMJG	U004	980	908	904	903	887	853	849	785	785	782	785	785	782	785	785	785	971	978	979	978	979	979	977	979	976	977	977	977	977	977	977	977	978	977	976	978	977	977	978	977	977	978	914	905					
JMJG	U005	980	898	900	900	866	854	833	781	780	782	782	779	780	778	779	785	782	778	782	906	981	985	979	983	975	982	978	978	977	980	982	977	977	977	974	975	975	975	975	975	975	976	977	900	899				
PKLG	U004	278	277	277	276	278	279	278	278	276	281	282	278	282	276	281	280	279	278	278	279	279	281	279	280	279	278	279	278	279	282	280	279	281	279	279	284	277	280	278	279	280	281	280	279					
PKLG	U005	470	471	470	470	470	471	467	468	471	471	469	469	470	470	469	471	471	471	470	470	472	469	469	473	470	471	471	472	470	470	470	471	470	471	469	470	470	469	469	469	468	470	469	471					
TBIN	U004	983	909	904	902	901	850	846	781	785	782	780	782	783	782	781	783	781	779	781	869	958	981	983	981	983	982	982	983	981	982	983	983	982	982	982	981	980	982	981	982	982	982	982	982	919	903			
Total ST-Coal		8077	7666	7155	7075	7022	6869	6848	6593	6664	6693	6685	6681	6694	6666	6666	6701	6681	6645	6420	6849	7024	7057	6900	6721	6717	6719	6712	6724	6722	6711	6838	6773	7053	7139	7444	7605	7204	7203	7383	7388	7188	7137	7134	7126	7140	7316	7117	7078	
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CBPS	BLK2	360	360	357	364	359	362	365	358	359	368	364	360	359	359	355	362	367	362	369	354	362	358	361	355	362	359	359	355	359	363	360	357	358	356	358	357	359	360	362	360	357	362	358	360	360	362	360		
KLPP	GT13	132	131	132	131	129	130	133	134	135	125	133	135	134	136	118	113	114	132	133	113	120	117	111	130	134	133	132	134	133	134	133	112	113	132	124	124	134	132	134	133	133	133	133	133	135	133	134		
KLPP	GT14	153	151	152	152	138	140	149	148	150	135	144	151	145	151	131	111	119	152	150	123	129	125	123	138	153	151	152	144	153	141	148	144	143	142	120	119	143	133	137	151	147	150	149	149	147	148	153	152	
KLPP	GT15	152	153	151	150	141	144	150	147	150	135	146	151	145	151	131	123	85	153	148	123	131	127	122	140	151	151	149	146	153	140	149	146	141	139	121	119	143	132	134	151	147	147	148	149	145	149	152	152	
KLPP	ST17	202	202	204	204	204	204	200	203	192	200	204	204	200	192	168	204	204	192	188	192	192	200	204	204	204	204	206	200	204	204	204	201	200	187	187	204	200	193	204	204	204	204	204	204	204	204	204	204	204
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	70	99	102	102	101	101	101	100	101	102	102	99	100	99	71	83	101	100	101	101	100	102	100	100	77	0	0		
MPSS	GT02	85	86	86	89	87	86	87	105	89	87	88	86	88	86	88	86	88	86	87	87	100	104	104	104	104	104	104	104	105	99	99	100	72	83	101	100	101	101	101	100	101	99	101	81	102	87			
MPSS	ST01	37	35	36	36	36	36	36	36	36	36	35	36	36	34	34	36	36	37	34	34	38	103	111	111	113	112	112	111	113	107	107	107	81	74	105	107	107	107	106	105	105	88	48	37					
PAKA	GT4A	84	85	85	85	85	85	84	85	85	85	85	85	84	84	85	85	85	85	85	84	85	92	92	93	93	93	91	92	92	92	91	93	87	86	87	85	85	85	85	88	88	89	88	87	85	85	84		
PAKA	GT4B	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	82	80	81	81	80	80	80	80	80	80	80	77	77	77	75	75	75	75	78	78	78	78	78	75	75	75			
PAKA	ST4C	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	80	81	81	84	89	89	89	89	89	90	90	90	90	89	87	85	85	82	82	82	82	84	84	84	84	84	84	81	80	80			
PCCP	PGRG	602	603	592	602	602	595	600	601	603	593	604	604	604	598	581	597	622	600	618	591	603	603	602	587	603	602	599	593	622	602	601	598	599	602	593	598	597	602	600	602	601	603	602	585	582	587	602	598	
PGLA	GT11	205	213	162	195	167	164	215	207	214	209	213	215	214	214	208	189	216	214	224	220	221	220	219	224	221	220	221	219	223	221	220	221	219	221	219	221	202	200	191	219	219	220	218	216	214	216	219	218	
PGLA	GT12	214	222	168	204	175	171	222	215	222	218	223	222	221	215	197	226	223	232	228	229	229	225	219	228	228	226	231	228	229	229	229	229	228	227	211	209	198	226	226	226	226	223	222	223	222	223	227	226	
PGLA	ST10	238	236	212	219	204	207	237	232	236	232	236	236	238	236	233	227	240	236	248	245	246	245	244	245	248	248	247	247	248	248	246	246	246	245	234	231	217	243	244	243	243	243	242	242	243	243			
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	93	94	94	93	94	95	93	94	94	87	87	88	66	65	87	88	88	89	89	88	89	89	88	89	65	0	0	
PGPS	GT3B	71	72	71	71	71	71	94	71	71	71	71	71	71	71	71	71	72	71	72	71	71	71	71	95	94	95	94	94	96	95	95	94	88	89	89	67	67	89	89	89	89	89	89	89	89	89	67	71	72
PGPS	ST3C	28	28	28	28	28	28	40	28	28	28	28	28	28	28	28	28	28	28	29	28	28	28	28	77	90	91	91	92	91	91	91	85	83	84	61	60	81	82	82	82	81	81	81	81	81	60	28	27	
PLPS	GT11	126	126	125	125																																													

Daily MW Generation on Saturday

[illegible]

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																								
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	12	16	19	22	24	26	27	24	11	28	4	0	2	4	3	2	2	2	1	1	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	3	9	15	22	28	33	38	41	24	15	11	48	48	11	16	10	8	8	20	3	2	1	1	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	9	11	22	22	35	35	35	44	44	34	44	44	47	47	47	47	22	23	23	12	3	1	1	1	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	2	9	13	18	13	41	46	50	20	24	50	16	12	50	27	6	0	0	0	0	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	3	9	16	23	30	36	31	16	46	50	50	14	28	30	25	15	11	11	15	8	9	4	0	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	3	3	4	10	15	17	30	41	42	37	28	26	17	45	2	6	3	5	2	0	0	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	4	8	20	25	35	37	33	48	47	50	45	50	50	50	46	42	35	29	22	3	1	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	3	10	19	29	36	43	49	53	56	57	40	55	57	53	24	10	21	45	34	12	6	3	1	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	2	5	4	13	12	29	37	26	26	27	34	44	42	46	23	22	3	1	2	1	2	2	1	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	19	59	106	169	212	262	316	330	361	327	290	342	330	298	237	185	145	130	127	71	36	15	5	1	1	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	-3	-5	-4	-4	-3	1	2	3	0	2	3	6	12	13	13	16	21	19	20	22	23	26	25	25	26	25	24	27	26	27	24	24	26	25	27	28	27	26	26	26	27	24	23	28	18	19		
PCUF	CUFK	38	39	40	39	39	41	39	39	40	40	41	39	40	41	41	40	41	41	40	37	36	34	33	35	35	34	34	33	33	32	40	34	31	31	30	12	15	6	7	6	8	14	13	22	25	31		
Total Co-Gen		35	34	36	35	36	42	41	42	40	42	44	46	53	52	53	57	62	59	57	58	57	59	60	60	60	59	58	60	59	60	56	56	64	60	56	58	58	39	41	32	33	33	35	38	36	50	43	50
Total Gen		14547	14076	13907	13676	13417	13214	13060	12834	12882	12649	12603	12533	12602	12698	12449	12212	12324	13011	13615	14059	14471	14920	15100	15278	15135	14983	14999	15120	15118	15373	15260	15165	15197	15099	14858	14541	14533	14541	14998	15566	15516	15397	15302	15120	14799	14674	14472	14278
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		31	31	31	31	31	31	29	29	30	30	31	31	31	31	30	30	30	30	30	31	31	31	31	30	30	30	30	-98	-98	-99	-99	-98	-98	-99	-99	-99	30	30	29	29	29	29	30	30	30	30	31	31
TIE-PLTG		-21	-67	-17	-30	-60	-19	-48	-50	-16	-25	-68	-41	-30	30	5	-24	-64	-39	-38	-22	-35	-6	-47	-32	-31	-41	-36	-81	-79	13	-53	-25	-28	-5	11	9	-12	-36	-61	-22	-19	-31	-85	-42	-64	-49	-65	-26
Interconnection		10	-37	13	1	-29	12	-19	-21	14	4	-37	-11	0	60	35	6	-34	-9	-8	8	-4	24	-17	-2	-1	-11	-6	-51	-178	-85	-151	-124	-126	-103	-87	-90	19	-5	-32	7	10	-2	-56	-12	-34	-19	-34	5
System Total		14537	14113	13894	13675	13446	13202	13079	12855	12868	12645	12640	12544	12602	12638	12414	12206	12358	13020	13623	14051	14475	14896	15117	15280	15136	14994	15005	15171	15296	15458	15411	15289	15323	15202	14945	14631	14514	14546	15030	15559	15506	15399	15358	15132	14833	14693	14506	14273
SRev ST-Coal		112	521	432	419	430	439	429	434	412	426	431	437	422	439	447	427	434	466	629	639	165	132	289	168	172	170	177	165	117	128	111	126	246	160	125	309	490	241	216	181	161	112	115	123	109	-67	392	426
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	
SRev CCGT-Gas		762	679	676	479	619	612	511	425	441	833	873	941	912	767	1037	1313	1275	775	565	692	841	834	760	408	204	209	216	311	158	299	249	245	375	456	693	943	591	639	592	471	410	481	428	541	575	815	693	746
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
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
SRev Co-Gen		30	31	29	30	29	23	24	23	25	23	21	19	12	13	12	8	3	6	8	7	8	6	5	5	5	6	7	5	6	5	9	9	1	5	9	7	7	26	24	33	32	32	30	27	29	15	22	15
Syncon		915	915	476	789	789	915	1016	1016	1016	1203	1203	1203	1052	1203	1052	1203	1203	1203	951	951	1037	951	476	325	476	512	663	676	676	302	676	676	676	888	964	1203	1052	1016	1016	789	789	789	789	915	915	678	1016	865
Hydro		239	238	340	300	301	238	270	270	271	270	270	270	401	270	401	269	270	271	390	392	336	391	591	719	542	617	487	324	444	458	426	423	516	401	573	316	404	271	271	296	393	391	300	234	234	446	239	368
S.Reserve Total		2058	2384	1978	2017	2168	2227	2250	2168	2165	2755	2798	2870	2799	2692	2949	3220	3185	2721	2543	2681	2387	2314	2121	1625	1399	1514	1550	1481	1401	1306	1477	1482	1885	1980	2435	2848	2615	2261	2190	1792	1807	1826	1735	1912	1862	1887	2362	2420