

Daily System Generation Summary on Tuesday

Tuesday, December 24, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,319 MW
Distillate	0 MW
Total TNB	2,319 MW
Total IPP	15,941 MW
Total Co-Gen	0 MW
Total System	20,773 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,856	5.01 %
Gas	31,614	8.88 %
Total TNB	49,470	13.89 %
ST-Coal	228,602	64.19 %
LSS	2,387	0.67 %
Gas	75,014	21.06 %
Total IPP	306,003	85.92 %
Co-Gen	236	0.07 %
Total Co-Gen	236	0.07 %
Total Generation	355,709	99.88 %
PLTG	272	0.08 %
HVDC	-696	-0.20 %
Interconnection	-424	-0.12 %
Net Energy	356,133	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:	16:00:00 Hour
Total Set On Bus	18,177 MW
TNB Generation	2,843 MW
IPP Generation	13,963 MW
Spinning Reserve	1,362 MW
Maximum Demand	16,845 MW
Net Energy	356,133 MWH
Load Factor	88.09 %

Fuel Cost

Total Cost:	58,773,841.99 RM
Cost per Unit	16.51 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	569
Hydro	474
Syncon	633
Thermal	181
Total	1,857

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	28
PGPS	8
TJGS	188
Total TNB	224
CBPS	50
KLPP	45
NPRI	146
PGLA	79
PLPS	7
SKSP	49
YPKA	55
Total IPP	432
Total Gas	655
Total Gas Required	655

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	14533	13802	13316	12879	12664	12527	12553	12812	13199	14900	15678	16301	16191	16013	16402	16740	16845	16383	15432	15228	16018	15661	15100	14869

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, January 05, 2020 10:42:00 AM
(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Tuesday

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	694	693	693	693	692	693	688	692	691	693	693	693	694	689	692	696	692	693	692	690	694	690	695	691	693	692	692	693	693	686	701	691	693	692															
JMAH	U002	695	691	697	694	691	692	693	695	688	694	690	694	692	693	693	694	692	695	697	695	699	693	695	694	693	697	695	694	693	697	695	694	697	693	693	688													
JMHE	U001	924	776	781	779	777	782	775	782	786	778	779	781	782	778	779	783	778	781	780	776	782	908	896	899	780	745	751	748	750	752	751	750	750	751	751	753	748												
JMHE	U002	751	748	751	750	745	752	746	752	753	752	751	752	750	748	751	751	751	751	971	996	1002	1003	997	1001	995	996	1001	996	999	1003	1002	999	1000	1000	998	670													
JMIG	U003	662	666	664	665	662	663	672	661	668	662	665	660	662	665	662	666	653	666	662	665	663	665	664	663	662	659	662	662	661	664	665	662	661	665	666	666													
JMIG	U004	933	848	787	788	791	789	785	788	788	789	787	788	792	789	788	787	785	970	977	978	977	978	976	977	978	975	977	976	979	978	977	977	976	975	977	955													
JMIG	U005	908	777	779	780	781	777	781	781	781	779	778	780	779	779	781	779	780	879	955	970	979	977	983	978	975	973	979	979	982	977	977	977	977	980	978	975													
PKLG	U003	292	284	288	287	284	287	281	278	252	207	205	206	204	263	274	283	283	282	282	279	282	281	279	282	279	280	280	278	280	282	280	283	281	280	281	280	283												
PKLG	U004	281	281	279	280	280	282	278	275	260	216	240	279	281	281	281	279	277	279	282	279	278	280	281	278	282	281	279	280	279	281	280	288	281	281	278	281	288												
PKLG	U005	468	466	468	468	467	466	467	441	375	295	269	269	270	314	390	466	469	469	468	471	470	466	466	466	466	466	466	467	467	466	469	468	467	467	468	466	466												
TBIN	U001	692	691	690	687	687	692	688	691	691	691	693	691	690	692	689	689	690	692	691	689	689	690	690	691	687	691	692	689	691	690	690	690	688	692	690	689	690												
TBIN	U002	693	692	691	692	691	692	689	691	693	693	691	691	691	690	690	695	689	695	691	688	691	692	691	691	692	691	692	687	691	691	692	693	689	692	690	691	691												
TBIN	U003	691	691	692	690	689	692	689	691	692	691	692	692	690	690	692	691	691	690	689	688	692	690	691	691	691	692	687	691	691	690	689	690	690	690	690	690	690												
TBIN	U004	956	867	783	784	783	782	784	782	783	783	785	783	784	783	783	783	783	814	906	984	983	982	982	982	982	982	982	982	982	982	983	983	981	983	983	981	982	983											
Total ST-Coal		9640	9171	9043	9037	9020	9041	9016	9000	8902	8727	8717	8757	8760	8858	8946	9036	9023	9342	9751	9847	9882	9994	9982	9987	9857	9825	9827	9832	9838	9836	9843	9837	9834	9828	9828	9850	9838	9820	9834	9839	9835	9848	9841	9830	9851	9831	9850	9479	
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	353	360	353	357	354	223	209	217	216	223	223	218	221	226	226	219	272	362	357	357	354	355	360	357	357	353	352	358	357	362	359	362	360	361	354	359	356	357	358	362	362	351	363	356	358	351	361	361	
GLGR	GT02	95	95	95	96	95	95	95	95	95	95	95	95	95	95	95	95	97	97	96	96	96	96	96	96	96	96	96	96	96	96	96	97	95	95	95	95	95	95	95	95	95	95	95	95	95	94			
GLGR	ST1C	38	38	37	38	37	37	37	36	36	37	37	37	37	37	37	36	37	37	37	37	37	38	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	38	38	38	38	38	39				
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	120	116	117	116	117	123	116	116	116	120	114	112	111	81	78	47	0	0	0	0	0	0	0	0	0		
KLPP	GT15	117	121	121	121	121	117	121	121	123	122	123	123	120	125	124	126	122	122	122	122	126	126	126	117	118	117	118	118	123	119	117	120	120	120	118	118	78	125	133	133	126	118	114	119	115	117	130		
KLPP	ST17	52	50	50	48	52	52	52	50	50	50	50	50	51	56	56	56	56	56	56	56	55	56	120	120	127	127	123	123	123	119	120	120	116	116	120	108	84	96	55	59	55	51	52	52	47	51	50		
NPRI	BLK1	505	503	500	505	497	455	338	359	356	463	419	385	472	516	416	346	406	512	504	495	505	498	513	502	499	495	496	506	500	509	505	505	507	506	497	503	497	475	506	506	502	499	505	492	497	494	505	506	
NPRI	BLK2	506	505	502	506	498	447	432	316	314	320	319	318	317	318	320	316	450	514	507	499	507	505	505	509	505	501	503	512	507	517	510	511	512	513	502	511	501	475	506	507	504	499	507	494	498	495	507	508	
PCGP	PGRG	587	587	581	589	576	601	565	498	412	400	401	400	398	399	504	601	601	604	592	574	593	587	585	597	589	578	582	602	590	610	595	602	601	605	585	599	582	596	602	601	595	587	603	572	584	577	598	600	
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	124	123	224	211	170	163	161	164	163	167	163	181	185	169	203	189	164	164	162	164	170	183	167	164	171	161	163	162	89	0	
PGLA	GT12	168	229	180	169	165	174	163	173	172	174	173	173	172	175	180	176	180	188	190	190	242	234	192	185	182	184	183	188	185	202	207	189	223	211	184	185	183	185	191	205	187	184	194	182	184	184	188	218	
PGLA	ST10	90	113	102	90	91	93	91	91	90	92	91	91	91	95	92	90	90	92	88	181	247	237	206	216	209	206	204	209	209	209	202	225	211	230	222	205	209	204	209	206	209	204	206	203	206	201	92	94	
PGPS	GT3B	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	80	79	79	79	80	79	79	79	79	79	79	79	80	79	80	79	51			
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	27	35	35	35	35	35	35	35	35	0			
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	63	63	63	63	36	34	35	35	142	130	127	128	125	130	129		
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	57	56	57	59	59	58				
SKSP	BLK1	219	274	219	218	219	222	217	220	219	226	218	220	218	228	219	222	221	317	314	296	299	298	308	309	308	308	307	308	308	309	307	308	308	308	308	309	307	307	294	318	322	317	287	232	238	240	247	273	253
TJGS	GT1A	202	219	196	137	134	142	130	143	140	138	141	141	141	147	141	141	139	146	144	131	140	192	220	196	219	165	138	139	186																				

Daily MW Generation on Tuesday

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
BSIA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	22	22	22	22	22	11	11	11	11
CEND	HY01	7	7	6	6	7	7	7	7	6	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6
CEND	HY02	6	6	7	6	6	6	6	6	6	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6
CEND	HY03	6	6	6	7	7	6	6	7	7	7	6	7	6	6	6	6	6	6	6	6	6	6	6	6
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	64	64	-1	-1	65	63	62	125	124
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	64	64	64	64	64	64	64	64	-1
KNRG	HY02	23	23	23	23	24	23	24	23	24	23	24	24	23	23	23	36	36	36	36	36	36	21	20	21
KNYR	HY01	105	106	105	105	105	105	105	105	106	106	106	105	106	106	106	106	106	106	106	106	106	106	105	106
KNYR	HY02	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	103	104	104
KNYR	HY03	104	0	0	0	0	0	0	0	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
KNYR	HY04	105	106	106	106	106	106	106	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
LPIA	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11	11	10	10	10	10	10	10	10
LPIA	HY02	18	18	18	18	18	18	18	18	18	18	18	15	15	15	17	17	17	17	17	16	16	16	16	16
MNOR	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7	7	7	7	7	7	7	5	5	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	21	21	21	21	21	21	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	21	21	22	22	22	22	20	-1	-1	-1
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	0	0	0	0
SIHY	HY01	31	30	30	0	0	0	0	0	0	0	0	0	0	0	5	50	31	31	31	31	0	0	0	0
SIHY	HY02	31	30	30	30	30	32	31	31	31	0	0	0	0	0	50	50	31	31	31	31	0	0	0	0
SYPS	HY01	25	24	25	23	27	25	23	0	0	0	0	0	0	0	25	25	25	25	25	25	0	0	0	0
SYPS	HY02	25	24	26	27	26	23	26	17	17	0	0	0	0	0	25	25	25	25	25	25	0	0	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	0	0	0	0	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	25	25	25	25	25	0	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	33	33	33	33	32	33	34	33	34
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	32	32	31	32	30	33	29	33	32	33	33	33	33	33	32	30	33	32	33	33	31	33	33	33
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	90	96	92	98	143	147	147	139	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	3	91	99	94	99	96	98	98	100
UPIA	HY01	5	5	5	5	5	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	5	5	5	5	4	4	4	4	4	4	4	4	4	4	5	5	5	5	4	4	4	4	4	4
Total Hydro		649	543	544	514	515	514	510	484	584	538	539	539	556	535	558	538	538	539	643	760	730	727	906	906
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	13	11	19	21	23	23	19	14	18
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	11	28	38	41	43	45	46	47	33
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	13	13	24	35	25	34	34	46	25	36	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	11	18	25	32	37	41	45	47	48	49	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	6	14	19	27	32	34	41	45	29	36	30	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	9	16	22	27	32	35	38	40	41	42	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	14	23	29	24	46	49	50	50	46	50	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	13	22	31	39	48	52	32	55	58	31	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	9	12	19	26	26	34	39	41	42	38	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	29	90	138	201	254	305	348	349	376	361	337	288
PCUF	CUFG	6	2	2	2	3	4	2	2	3	1	3	2	2	2	4	1	2	3	2	2	2	4	3	
PCUF	CUFK	5	4	6	5	7	6	4	3	5	4	4	6	4	4	5	6	6	6	7	6	6	7	6	
Total Co-Gen		11	6	8	7	10	10	6	5	8	5	7	8	6	8	9	7	8	8	6	10	8	11	8	6
Total Gen		14487	14060	13736	13481	13288	13143	12880	12717	12621	12527	12467	12467	12565	12724	12839	12917	13184	14254	14899	15279	15622	16081	16256	16357

Daily MW Generation on Tuesday

[illegible]