

Daily System Generation Summary on Friday

Friday, January 31, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,322 MW
Distillate	0 MW
Total TNB	2,322 MW
Total IPP	17,561 MW
Total Co-Gen	0 MW
Total System	22,706 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,106	2.57 %
Gas	34,236	9.68 %
Total TNB	43,342	12.26 %
ST-Coal	235,185	66.50 %
LSS	1,872	0.53 %
Gas	73,893	20.89 %
Total IPP	310,950	87.93 %
Co-Gen	229	0.06 %
Total Co-Gen	229	0.06 %
Total Generation	354,521	100.25 %
PLTG	146	0.04 %
HVDC	725	0.21 %
Interconnection	871	0.25 %
Net Energy	353,650	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:	16:30:00 Hour
Total Set On Bus	18,079 MW
TNB Generation	2,553 MW
IPP Generation	13,945 MW
Spinning Reserve	1,572 MW
Maximum Demand	16,468 MW
Net Energy	353,650 MWH
Load Factor	89.48 %

Fuel Cost

Total Cost:	55,589,189.66 RM
Cost per Unit	15.68 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	387
Hydro	431
Syncon	870
Thermal	132
Total	1,820

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	197
Total TNB	245
CBPS	50
KLPP	79
NPRI	144
PGLA	105
PLPS	51
Total IPP	428
Total Gas	673
Total Gas Required	673

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	14503	13837	13417	13016	12691	12505	12691	12859	13142	14646	15457	15850	15698	15323	15517	16168	16415	16264	15225	15040	16125	16002	15492	15272

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, March 09, 2020 2:56:40 PM

(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	U002	691	695	694	695	692	693	693	694	697	692	693	693	696	693	691	696	694	693	696	693	694	697	695	700	694	691	693	695	696	694	689	698	696	688	696	695	696											
JMHE	U001	777	779	779	777	780	790	780	778	779	777	781	778	782	780	779	780	779	778	779	779	780	779	778	778	778	775	783	780	778	779	778	779	780	779	778	781	780											
JMHE	U002	977	980	980	979	776	780	781	782	778	778	781	778	781	781	780	782	777	780	985	977	980	979	980	980	977	981	981	980	981	979	982	981	981	981	982	979	979	978	983	980								
JMJG	U001	668	672	668	668	673	671	668	675	673	551	550	545	548	557	604	672	673	671	670	670	668	672	673	676	672	671	674	672	668	675	670	671	669	672	669	675	668	667	670	671	669	669	673	673	671	667	668	673
JMJG	U003	669	663	666	666	666	661	662	665	664	582	544	545	542	553	596	653	663	672	666	673	666	669	669	662	666	667	667	666	666	667	671	667	667	671	668	666	670	664	667	668	668	667	668					
JMJG	U004	903	871	787	786	788	789	786	789	788	787	788	789	788	789	788	787	842	900	903	901	900	901	902	900	900	901	900	900	900	900	901	901	901	900	899	900	902	901	900	900	900	900	901	900				
JMJG	U005	978	944	799	778	782	780	782	779	781	780	783	780	779	780	780	783	779	861	955	977	978	977	978	978	977	979	974	976	977	977	977	977	975	975	976	976	976	974	977	976	976	975	977	974	975	978		
PKLG	U003	282	282	287	285	284	283	283	281	282	284	282	285	283	283	284	281	280	280	280	280	281	280	277	282	281	279	274	281	280	282	280	284	279	281	278	278	285	284	282	285	280	273	285	279	280	286	283	282
PKLG	U004	141	141	141	141	139	143	141	138	141	142	143	142	139	141	140	139	141	142	142	141	139	143	143	141	141	142	141	136	143	143	142	142	147	139	141	140	141	139	142	140	143	139	138	146	142	139	141	143
PKLG	U005	465	468	466	468	468	466	468	468	466	466	467	468	467	466	468	466	468	466	468	467	468	467	468	467	468	467	468	465	467	468	467	467	466	466	468	467	466	468	467	466	468	467	468	464	464			
PKLG	U006	449	446	449	448	441	448	449	448	449	447	449	448	447	450	446	449	445	449	445	447	447	445	447	445	447	452	450	450	449	450	449	449	448	446	448	447	447	447	447	447	448	441	414	269				
TBIN	U001	690	690	691	691	691	688	691	689	690	691	692	692	693	690	692	691	689	690	691	692	690	692	688	690	691	692	690	689	691	690	693	686	689	691	690	690	691	690	692	690	690	691	690	691	690	693	693	
TBIN	U002	700	691	693	692	693	691	694	691	691	692	690	671	691	692	694	689	693	691	693	689	692	692	690	687	693	695	691	692	688	693	692	697	694	685	692	691	695	692	692	692	692	692	692	694	692	689	689	695
TBIN	U003	692	690	692	690	692	691	690	690	691	690	691	690	691	690	691	690	692	691	692	690	692	690	692	689	690	693	692	690	691	691	691	693	692	692	691	693	691	691	691	691	691	691	690	691	690	691	690	
TBIN	U004	982	927	834	783	784	782	782	783	783	782	782	782	783	783	784	782	840	928	985	981	981	983	983	981	983	983	982	982	982	982	982	982	983	982	982	982	983	983	983	981	981	983	983	981	982	981		
Total ST-Coal		10064	9939	9626	9546	9349	9356	9350	9350	9353	9141	9121	9086	9105	9128	9219	9342	9341	9536	9994	10067	10057	10063	10057	10067	10055	10059	10068	10059	10052	10072	10067	10072	10067	10058	10061	10052	10051	10065	10065	10062	10059	10048	10070	10065	10058	10011	9930	9893
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		
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		
CBPS	BLK2	357	356	362	359	243	220	220	223	213	220	220	220	222	223	222	222	361	361	362	362	362	362	362	362	362	362	362	362	362	362	361	361	361	361	361	352	352	265	342	357	362	364	357	356	362	359	361	
GLGR	GT01	67	68	69	67	67	67	68	67	67	68	67	68	67	68	66	67	67	66	102	101	101	100	83	68	66	68	67	79	84	85	99	100	100	66	67	68	67	79	98	98	73	67	67	68	67			
GLGR	GT02	68	68	68	68	67	68	68	68	68	68	67	68	69	68	68	68	68	68	102	101	101	101	82	68	68	68	68	81	86	85	100	101	101	67	68	68	68	81	98	97	73	68	68	68	68	68		
GLGR	ST1C	70	71	71	71	72	71	71	71	71	71	71	71	71	71	71	71	70	71	86	89	89	83	117	71	71	71	71	74	80	80	90	91	90	73	71	70	71	74	85	86	78	70	71	71	71			
KLPP	GT13	116	116	118	117	117	118	118	117	113	118	117	117	118	118	117	118	122	120	121	121	123	133	117	115	114	119	119	120	128	129	130	134	130	115	110	115	113	120	124	120	113	118	118	118	118			
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	151	132	140	149	126	126	124	129	129	129	138	144	140	145	137	125	123	124	123	136	132	133	123	76	75	34	0			
KLPP	GT15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	104	152	152	132	141	149	126	126	126	129	129	132	141	138	139	144	137	125	125	124	124	132	137	129	129	124	124	129	125	72	
KLPP	ST17	83	50	50	51	51	51	51	50	50	49	49	51	51	50	54	58	58	54	109	129	200	196	200	200	193	193	188	188	193	188	196	196	196	196	196	188	184	188	188	188	193	193	193	188	171	172	168	106
NPRI	BLK1	501	477	497	420	388	399	325	356	316	325	322	331	374	496	488	430	507	506	508	520	509	508	510	509	505	509	503	509	508	509	510	510	515	514	513	509	502	395	499	515	515	515	515	509	514	512	514	514
NPRI	BLK2	504	508	511	502	509	316	312	312	303	314	308	317	317	320	311	350	508	509	505	510	508	511	511	506	511	505	509	508	510	511	511	516	515	516	510	502	508	438	515	515	515	516	511	515	514	516	516	
PCGP	PGRG	588	594	601	583	600	601	581	363	344	363	354	369	370	374	371	357	506	599	595	594	601	600	603	598	593	603	588	602	597	602	601	605	600	599	592	578	591	600	602	604	605	594	600	597	600	600		
PGLA	GT11	162	163	163	161	174	174	161	170	161	162	161	165	172	171	164	162	163	164	164	163	163	201	209	204	193	168	163	170	180	173	210	210	209	211	204	204	161	163	185	193	210	209	212	198	181	209	200	212
PGLA	GT12	185	187	186	185	197	197	187	193	185	186	185	189	195	196	189	187	186	186	187	187	187	227	233	227	216	190	184	194	202	195	234	233	232	236	226	227	182	184	208	216	234	233	236	221	203	231	221	232
PGLA	ST10	207	205	207	205	210	208	205	210	201	203	203	203	212	210	205	205	205	205	205	205	205	221	237	238	231	216	205	212	220	211	240	240	237	239	234	238	205	205	219	215	228	238	238	228	210	236	231	238
PLPS	GT11	142	147	129	128	128	128	128	129	129	128	128	128	129	128	126	128	129	129	129	129																												

Daily MW Generation on Friday

		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	
HTRG	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	
KNRG	HY02		23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	24	24	23	23	
KNYR	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	101	101	101	100	99	95	
KNYR	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	68	61	99	74	79	58	
KNYR	HY03		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	59	59	58	99	98	94	
KNYR	HY04		59	58	63	58	57	58	57	58	58	58	57	59	62	60	60	59	59	59	79	66	59	59	60	66	71
LPIA	HY01		18	18	18	18	18	18	18	18	18	18	18	20	21	21	21	21	21	21	21	21	21	20	20	20	20
MNOR	HY01		3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	5	5	6	6	6	6	6	6	
PGAU	HY01		-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGAU	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	21	-1	-1	
PGAU	HY03		-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	21	-1	-1	
PGAU	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	
SIHY	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	50	51	51	51	0	0	
SIHY	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	50	50	0	
SYPS	HY01		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	17	17	17	
SYPS	HY02		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	0	0	
SYPS	HY03		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	
SYPS	HY04		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	25	25	25	
TMGR	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	33	34	33	34	34	62	
TMGR	HY02		33	33	34	32	34	34	32	33	31	34	32	34	34	34	33	33	33	33	33	33	34	34	65	65	
TMGR	HY03		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY01		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	96	93	93	-1	-1	-1	
UJLI	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	
UPIA	HY01		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
UPIA	HY02		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Total Hydro			161	162	167	160	184	162	159	161	159	163	160	161	185	169	166	163	166	166	167	167	251	369	483	536	
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	0	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	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	0	0	0	0	
GNLS	LSS1		0	0	0	0	0	0	0	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	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	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	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	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	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	0	0	0	0	0	0	0	0	0	
PCUF	CUFG		-2	-1	6	4	4	5	4	5	4	5	4	6	5	6	6	5	4	5	4	5	4	5	4	5	
PCUF	CUFK		6	5	5	4	5	4	5	5	4	6	5	7	4	8	4	5	6	6	4	6	4	6	5	5	
Total Co-Gen			4	4	11	8	9	9	9	10	9	10	9	13	9	14	10	10	10	11	9	11	11	9	10	8	
Total Gen			14522	14236	13851	13644	13460	13268	13033	12905	12745	12595	12557	12571	12725	12921	12875	12911	13206	14030	14670	15093	15466	15682	15864		
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	
TIE-HVDC			30	31	31	30	30	30	32	31	31	29	29	30	32	29	29	29	30	30	30	30	30	30	30	30	
TIE-PLTG			-8	18	-14	9	16	-11	-11	2	26	10	26	20	5	-14	-10	60	37	1	-2	-19	-17	0	-15	0	
Interconnection			22	48	17	39	46	19	20	33	57	40	55	50	37	16	19	89	67	31	28	11	13	31	17	30	
System Total			14503	14191	13837	13608	13417	13252	13016	12875	12691	12558	12505	12524	12691	12908	12859	12825	13142	14003	14646	15086	15457	15654	15850		
SRev ST-Coal			127	252	376	382	461	456	462	464	459	558	543	569	555	553	551	477	465	436	197	124	134	128	134		

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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