

Daily System Generation Summary on Saturday

Saturday, December 28, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,467 MW
Distillate	0 MW
Total TNB	2,467 MW
Total IPP	17,616 MW
Total Co-Gen	0 MW
Total System	23,026 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,404	4.64 %
Gas	30,279	9.13 %
Total TNB	45,683	13.77 %
ST-Coal	226,782	68.38 %
LSS	2,282	0.69 %
Gas	55,552	16.75 %
Total IPP	284,616	85.81 %
Co-Gen	174	0.05 %
Total Co-Gen	174	0.05 %
Total Generation	330,473	99.64 %
PLTG	-501	-0.15 %
HVDC	-694	-0.21 %
Interconnection	-1,195	-0.36 %
Net Energy	331,668	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:	20:00:00 Hour
Total Set On Bus	16,886 MW
TNB Generation	2,463 MW
IPP Generation	12,708 MW
Spinning Reserve	1,709 MW
Maximum Demand	15,226 MW
Net Energy	331,668 MWH
Load Factor	90.76 %

Fuel Cost

Total Cost:	50,874,467.85 RM
Cost per Unit	15.38 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	489
Hydro	200
Syncon	1,141
Thermal	430
Total	2,260

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	187
Total TNB	215
CBPS	50
NPRI	144
PGLA	2
PLPS	51
SKSP	43
Total IPP	289
Total Gas	505
Total Gas Required	505

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	14458	13832	13332	12895	12622	12324	12287	12264	11998	13137	13973	14367	14207	13986	14369	14573	14622	14505	14123	14344	15226	15034	14593	14377

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, January 05, 2020 10:45:26 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	692	693	695	692	693	692	694	692	694	692	693	692	694	692	691	692	693	692	694	693	691	693	692	691	693	693	691																							
JMAH	U002	693	690	692	694	695	694	694	694	688	694	693	695	695	694	692	688	692	693	693	696	694	689	693	697	694	696	693	695	694	694	693	696	692	695	698	695														
JMHE	U001	978	942	784	779	776	779	781	781	779	781	780	780	781	780	783	783	781	779	900	900	898	898	898	900	899	900	902	902	898	898	902	895	901	905	903	961	960	961	958	962	957	960	961	959						
JMHE	U002	978	940	783	779	775	780	781	782	781	782	776	783	781	782	783	783	780	781	780	781	779	899	898	898	898	899	901	899	899	902	903	901	899	898	900	896	900	904	899	962	961	959	958	960	956	957	961	961		
JMJG	U001	678	675	678	678	672	685	678	682	667	675	668	668	678	674	665	671	671	671	668	675	674	667	661	674	674	667	671	668	670	676	671	669	671	673	670	668	668	676	670	671	677	666	683	668	674	672	670	668		
JMJG	U004	976	904	816	786	785	782	787	787	786	786	789	790	787	788	787	783	786	785	786	866	901	900	901	901	900	903	902	903	902	904	904	903	902	904	905	903	902	904	960	963	963	962	962	963	963	963	963			
JMJG	U005	979	847	781	770	801	771	782	782	778	777	781	780	782	782	780	782	779	782	785	844	906	901	903	901	902	900	901	900	901	900	901	900	903	899	900	902	902	956	963	961	962	961	963	959	963	961	961			
PKLG	U003	282	276	281	285	284	287	285	280	286	280	210	207	205	213	203	206	208	256	284	283	281	286	284	282	280	278	284	282	284	279	283	281	279	283	282	284	281	220	209	214	267	283	278	280	281	282	282			
PKLG	U004	281	281	281	279	280	280	280	280	279	278	208	202	205	205	207	207	205	243	268	281	282	279	280	279	280	280	279	279	280	278	280	280	280	280	281	279	278	280	279	282	283	273	277	281	280	281	280	281		
PKLG	U005	469	466	470	468	465	465	466	468	466	468	404	390	360	359	356	278	269	315	405	455	466	468	463	468	468	466	467	466	468	467	467	466	468	467	470	468	468	470	468	468	467	466	466	467	468	468	470	468		
TBIN	U001	692	691	690	691	689	690	691	689	691	690	690	691	691	693	689	692	690	691	689	691	689	689	690	690	690	689	691	690	693	690	689	690	690	689	690	689	691	691	690	690	692	692	690	689	690	689	690	689		
TBIN	U002	691	690	691	693	690	691	686	691	692	690	691	694	690	690	694	693	690	694	690	690	692	693	691	691	692	691	692	687	694	690	692	689	690	693	690	692	693	691	692	691	691	694	690	694	693	692	689			
TBIN	U003	691	691	691	690	691	691	689	690	688	689	691	689	691	686	690	691	690	689	690	691	692	690	690	690	690	689	688	690	692	689	689	687	689	689	690	691	691	689	692	689	691	691	687	690	691	692	690			
TBIN	U004	982	905	814	782	782	780	782	781	784	782	782	783	783	782	783	781	782	783	782	782	835	901	903	902	904	903	905	904	903	902	904	903	904	903	902	904	903	903	904	963	963	963	963	964	963	963	962	962		
Total ST-Coal		10062	9691	9147	9066	9078	9067	9076	9079	9063	9060	8851	8843	8822	8823	8803	8734	8711	8856	8991	9068	9265	9663	9644	9662	9664	9649	9672	9654	9667	9669	9672	9667	9656	9658	9672	9658	9661	9684	9608	9895	9906	9935	9978	9960	9961	9965	9977	9959		
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			
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			
CBPS	BLK2	360	359	363	355	359	352	223	218	216	221	221	218	218	223	218	215	218	221	302	362	357	362	356	356	343	298	264	236	353	363	362	360	360	360	362	359	361	365	359	359	356	357	359	358	358	360	362	357	351	
GLGR	GT02	95	95	96	95	96	96	96	96	95	95	95	95	95	96	95	95	95	96	96	95	96	96	95	95	95	95	95	95	95	95	95	95	95	95	99	98	98	98	99	99	107	106	108	107	95	98	97	98	98	
GLGR	ST1C	38	38	38	38	38	38	37	38	37	37	37	37	37	38	37	36	37	37	37	37	37	37	38	37	38	38	38	40	39	39	39	40	40	40	41	41	41	41	41	43	46	45	46	41	39	40	38	40		
NPRI	BLK1	507	518	512	506	513	508	348	355	345	347	449	385	458	470	433	347	359	430	497	503	485	518	497	499	496	504	472	502	454	508	490	493	504	506	505	500	506	445	516	512	509	515	509	512	511	515	504	515	505	504
NPRI	BLK2	509	519	512	508	514	511	514	313	308	309	311	314	308	317	314	299	308	314	498	516	511	518	511	513	499	506	480	505	498	507	506	506	507	506	508	502	506	446	517	514	513	517	511	515	514	516	508	506		
PCGP	PGRG	585	606	594	584	594	586	596	602	587	394	391	407	388	400	402	374	387	604	603	597	585	602	587	590	563	580	581	600	584	602	599	605	602	600	600	592	602	597	603	593	591	601	590	599	595	601	579	579		
PGLA	GT12	167	142	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PGLA	ST10	91	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	139	138	138	115	115	113	115	133	134	139	119	112	79	62	126	128		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	151	137	138	145	123	119	94	64	49	0	
PLPS	GT13	124	129	126	124	129	126	130	129	128	127	129	130	127	129	129	130	129	130	130	130	129	129	129	130	129	130	130	129	129	130	127	128	132	132	131	111	113	111	112	131	136	115	52	0	0	0	0	0		
PLPS	ST18	59	59	59	59	59	59	59	59	58	59	59	59	59	59	59	59	58	59	59	59	58	59	59	60	59	59	59	59	59	59	57	144	145	142	134	133	132	200	209	208	208	201	186	125	91	113	59			
SKSP	BLK1	246	272	218	220	219	217	218	217	218	221	218	216	217	219	218	218	219	220	218	223	217	225	220	218	217	218	218	220	217	233	219	285	226	314	220	223	224	223	219	222	222	248	219	219	217	232	216	149		
TJGS	GT1A	139	167	224	179	143	138	140	158	143	143	141	142	142	141	141	137	145	142	138	219	212	160	218	215	149	148	139	223	211	225	222	210	217	228	206	209	190	179	174	166	195	220	177	229	170	229	141	135		
TJGS	GT1B	131	163	214	178	133	131	131	143	137	134	133	135	133	133	134	129	135	135	132	214	204	152	213	210	141	140	129	212	204	211	212	199	208	217	198	201														

Daily MW Generation on Saturday

		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			
KNYR	HY04	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	104	104	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105		
LPIA	HY01	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	8	8	8	8	8	8	10	10	10	10	10	
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	16	16	15	15	15	15	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	6	6	6	6	6	7	7	7	7	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	25	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	22	22	22	21	22	-1	-1	-1	-1		
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	0	0	0	0	0	51	51	51	51	51	51	51	51	51	31	31	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	50	50	50	50	50	50	50	50	50	30	30			
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	0	0	0	0	0	17	17	17	17	17	17	25	25	25	25		
SYPS	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	0	17	17	25	25	25	25	25	25	25	17	17	17	17	17	17	25	25	25	25				
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	25	25	25				
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	HY02	32	34	33	32	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	33	30	29	31	30	31	31	31	31	30	31	31	31	30	31	31	28	32	33	33	33	32	33	33	32	28	31	30	33	31	33	33	33	33	33	33	33	33	33	33	33	61	61	31	31	31	31	31	29	29
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	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	-1	-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	4	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	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
Total Hydro		584	587	715	647	584	550	576	549	548	547	549	548	547	569	548	523	414	551	554	554	616	617	636	613	609	611	610	593	625	628	664	665	643	589	587	585	586	585	699	1009	1027	840	840	775	789	732	690	713			
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	0	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	6	12	15	18	20	23	23	20	28	13	13	19	11	7	9	7	7	5	6	4	1	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	1	3	4	6	20	21	36	40	42	44	48	43	43	43	46	43	38	17	27	12	9	8	4	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	0	0	0	2	2	12	12	23	23	13	23	21	21	13	34	18	18	24	13	11	11	11	11	4	2	2	2	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	3	3	9	25	30	35	39	43	45	48	48	49	49	36	46	13	12	11	27	5	4	2	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	2	6	10	14	23	31	28	10	48	22	35	49	33	36	42	44	38	17	9	5	7	2	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	3	9	12	8	9	13	32	38	40	42	43	44	43	17	33	31	15	20	24	13	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	3	4	9	15	24	48	46	47	43	51	50	28	50	43	45	35	15	16	6	2	2	2	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	2	10	24	25	22	22	31	51	57	57	57	53	58	57	51	20	9	11	5	11	1	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	2	5	6	8	17	31	33	39	40	41	43	42	41	39	38	33	28	23	15	13	7	3	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	0	0	1	22	48	94	139	184	257	282	316	361	350	363	355	348	311	333	234	165	141	122	68	49	20	5	2	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	1	3	3	2	1	2	3	3	3	3	2	4	4	3	1	2	2	4	4	2	2	2	2	0	3	3	3	2	3	3	3	4	2	3	1	0	2	2	3	3	1	1	4	2	2	2	3	3			
PCUF	CUFK	6	5	4	6	5	4	4	7	4	5	5	4	5	6	4	5	4	8	7	5	5	5	5	5	1	5	4	5	6	6	6	5	5	5	5	2	4	6	6	5	5	3	4	5	5	4	6	5			
Total Co-Gen		7	8	7	8	6	6	7	10	7	8	7	8	9	9	5	7	6	12	11	7	7	7	7	5	4	8	6	8	9	9	9	9	7	8	6	2	6	8	9	8	6	4	8	7	7	6	9	8			
Total Gen		14387	14065	13749	13477	13260	13069	12834	12659	12576	12386	12275	12221	12242	12310	12217	11982	11923	12538	13046	13466	13885	14132	14288	14316	14172	14015	13934	14146	14317	14515	14534	14547	14553	14617	14441	14290	14134	13983	14274	15103	15177	15122	14982	14878	14531	14552	14318	14142			
TIE-EGAT																																																				

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	
Syncon		1165	1165	913	1039	1165	1253	1102	1253	1253	1253	1253	1253	1102	1253	1102	1253	1253	1253	1253	1253	1253	1253	1102	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	676	676	888	888	1014	1014	1253	1253	1102		
Hydro		141	138	262	204	141	87	212	88	89	90	88	89	90	219	89	265	223	86	83	83	121	120	252	124	128	126	127	144	162	159	274	273	144	123	125	127	126	127	113	405	387	362	362	301	287	100	142	270
S.Reserve Total		2294	2156	2013	1984	2201	2392	2627	2802	2885	3075	3078	3110	3059	2997	3081	3292	3361	2855	2495	2134	2215	2537	2403	2409	2598	2744	2836	2621	2497	2260	2050	2081	2076	2125	2286	2376	2521	2859	2618	1784	1713	1832	1972	2076	2206	2180	2414	2377