

Daily System Generation Summary on Saturday

Saturday, November 14, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,347 MW
Distillate	0 MW
Total TNB	2,347 MW
Total IPP	17,946 MW
Total Co-Gen	0 MW
Total System	22,990 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,548	4.54 %
Gas	23,002	7.18 %
Total TNB	37,550	11.73 %
ST-Coal	228,769	71.44 %
LSS	3,232	1.01 %
Gas	50,699	15.83 %
Total IPP	282,700	88.28 %
Co-Gen	295	0.09 %
Total Co-Gen	295	0.09 %
Total Generation	320,545	100.10 %
PLTG	1,006	0.31 %
HVDC	-695	-0.22 %
Interconnection	311	0.10 %
Net Energy	320,234	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	19:30:00 Hour
Total Set On Bus	16,622 MW
TNB Generation	2,821 MW
IPP Generation	12,469 MW
Spinning Reserve	1,317 MW
Maximum Demand	15,380 MW
Net Energy	320,234 MWH
Load Factor	86.76 %

Fuel Cost

Total Cost:	39,106,806.65 RM
Cost per Unit	12.19 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	380
Hydro	281
Syncon	873
Thermal	669
Total	2,203

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	103
Total TNB	133
CBPS	47
NPRI	157
PLPS	36
SKSP	2
Total IPP	242
Total Gas	376
Total Gas Required	376

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	14328	13801	13309	12930	12506	12306	12250	11788	11064	11553	12233	12809	13007	13265	13597	13915	14066	13864	13573	14577	15297	14996	14613	14412

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:52:14 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	456	456	455	455	456	458	457	457	456	456	458	456	458	457	456	457	457	458	459	457	458	459	456	457	458
JMAH	U002	454	461	461	455	458	459	455	458	457	458	456	457	458	457	456	459	458	458	457	458	459	456	457	458	457
JMHE	U001	896	900	901	850	848	780	780	780	777	780	779	780	783	780	779	777	779	779	780	776	783	782	793	860	858
JMHE	U002	510	512	514	599	747	781	779	780	776	780	781	779	779	777	778	779	778	776	781	780	795	860	858	856	857
JMJG	U002	667	673	673	666	668	673	672	674	678	666	676	677	666	592	549	478	456	448	447	449	492	575	666	671	612
JMJG	U003	663	666	665	662	663	657	662	662	662	661	664	661	651	591	553	496	451	458	456	456	500	577	645	660	602
JMJG	U004	916	904	904	854	838	779	719	709	709	711	712	710	713	710	710	710	708	708	710	710	711	709	709	710	709
JMJG	U005	792	796	797	798	796	719	698	701	701	699	700	698	699	700	700	700	700	700	700	702	702	699	700	699	
PKLG	U003	280	282	281	281	282	281	279	280	279	281	281	279	281	281	232	152	151	189	205	252	277	279	279	278	277
PKLG	U005	466	467	468	468	467	466	472	462	468	468	469	468	469	468	423	334	268	298	313	354	432	464	464	466	468
PKLG	U006	448	446	450	448	450	448	449	445	449	449	445	445	447	445	451	449	449	447	450	447	447	445	449	446	448
TBIN	U001	691	691	690	691	692	691	691	690	691	691	691	690	691	690	600	554	652	651	691	692	693	690	691	690	690
TBIN	U002	692	692	691	692	690	690	693	685	691	694	692	692	691	692	691	596	553	657	650	694	687	689	692	690	690
TBIN	U003	689	691	686	691	691	690	690	691	690	697	696	693	691	688	686	601	549	653	649	694	690	695	689	695	691
TBIN	U004	903	902	902	852	854	795	782	783	781	783	782	782	783	783	783	782	782	782	781	783	862	863	862	863	862
Total ST-Coal		9523	9539	9538	9462	9600	9367	9278	9257	9265	9274	9282	9268	9256	9118	8939	8368	8093	8462	8485	8698	8892	9090	9263	9518	9470
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
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
CBPS	BLK2	361	356	360	367	364	367	359	229	221	226	219	226	226	223	215	215	225	213	213	227	226	226	265	296	244
GLGR	GT01	67	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLGR	GT02	69	68	96	111	96	96	95	96	95	95	96	95	95	96	95	95	95	95	95	95	95	96	95	95	95
GLGR	ST1C	72	72	44	46	42	40	41	40	41	40	40	40	40	40	39	40	40	40	40	40	39	40	40	40	40
NPRI	BLK1	505	505	506	511	509	518	506	514	502	508	507	509	508	510	499	498	513	494	497	507	521	523	520	512	512
NPRI	BLK2	509	507	510	515	514	524	512	520	506	514	512	515	513	515	502	505	520	501	502	512	521	526	520	515	513
PCGP	PGRG	601	599	598	607	602	615	598	608	592	602	603	604	604	605	587	592	605	582	590	602	611	617	612	602	601
PLPS	GT13	122	125	125	144	125	125	125	124	124	124	124	124	124	125	125	124	124	125	124	123	123	124	125	124	124
PLPS	ST18	89	60	58	60	57	58	59	58	58	58	58	58	58	58	58	58	58	58	58	58	59	59	58	59	59
SKSP	BLK1	320	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPGP	BLK1	0	0	19	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	224	225	229	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1B	214	215	215	165	168	168	168	164	167	170	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	ST1C	244	244	244	164	89	89	89	89	89	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT2A	215	215	215	216	216	216	184	128	128	128	128	128	128	128	127	129	129	127	129	129	128	128	128	128	128
TJGS	GT2B	209	211	211	211	211	211	181	124	124	124	124	124	124	124	125	124	124	124	124	124	124	124	124	124	124
TJGS	ST2C	257	257	257	257	257	257	234	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198
Total CCGT-Gas		4078	3805	3687	3562	3250	3284	3151	2892	2844	2877	2672	2621	2618	2621	2572	2578	2632	2557	2572	2615	2647	2659	2684	2777	2790
Total 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
BSIA	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
BSIA	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
BSIA	HY03	12	12	12	13	12	13	12	13	12	12	12	12	12	12	13	13	12	12	12	13	12	13	12	13	12
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY04	8	8	8	8	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HTRG	HY01	-1	-1	-1	65	65	65	65	51	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY02	125	125	-1	-1	-1	-1	65	65	65	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY01	36	36	36	36	36	36	36	36	26	26	26	25	36	16	0	0	36	36	36	36	36	36	36	22	22

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								
KNRG	HY02	37	37	37	37	37	37	37	37	37	27	27	27	27	37	37	37	37	37	37	22	22	23	37	37	24	25	24	25	24	25	24	24
KNRG	HY03	36	36	36	36	36	36	36	36	36	24	24	25	24	36	36	38	38	36	36	36	36	36	36	36	36	24	24	25	24	24	24	
KNYR	HY01	95	95	95	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	63	93	59	99	-1	-1	-1	56	95	95	95	95	95	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	57	-1	99	-1	-1	-1	-1	-1	96	95	95	95	95	95	
KNYR	HY04	100	100	99	63	60	61	59	61	62	62	60	61	59	63	60	59	63	58	56	62	67	75	68	61	61	67	57	61	58	64	99	
LPIA	HY01	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	
LPIA	HY02	25	25	25	22	22	22	22	22	21	21	21	21	21	21	21	21	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	
MNOR	HY01	6	6	6	6	6	6	4	4	4	4	4	4	3	3	2	2	2	2	2	2	2	2	2	4	4	4	4	4	6	5	6	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	0	0	0	19	-1	-1	-1	-1	-1	-1	-1	20	
PGAU	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	0	82		
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	111	
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	0	0	0	0	0	43		
SIHY	HY01	49	49	49	49	0	0	0	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	HY02	50	50	50	50	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	31	31	50	50	50	50	50	
SIHY	HY03	50	50	50	50	30	30	30	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	
SYPS	HY02	25	25	25	25	25	25	25	17	17	17	17	17	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY03	23	23	23	23	23	23	23	17	17	17	17	17	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	10	16	16	16	16	0		
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	
TMGR	HY02	46	45	46	45	45	45	45	45	46	45	45	45	45	45	43	44	45	42	44	46	47	54	47	46	45	47	42	47	48	46	81	
TMGR	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	
TMGR	HY04	-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	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	
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	
UPIA	HY01	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	
UPIA	HY02	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		774	773	647	641	485	487	548	537	468	372	369	371	336	387	283	277	238	303	303	312	319	435	440	311	309	318	258	267	328	380	637	
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	8	10	14	14	21	22	24	25	26	27	26	26	25	10	22	21	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	15	20	27	27	30	30	30	30	30	30	30	29	22	23	16	11	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	17	24	28	34	33	37	13	44	13	27	46	27	12	11	20	15	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	18	22	29	34	36	36	34	45	32	42	44	44	44	44	21	11	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	14	18	16	19	19	7	25	22	12	26	29	28	20	18	14	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	12	23	30	35	39	31	33	35	32	42	44	44	43	42	38	33	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	17	23	29	35	39	42	43	45	47	46	45	27	39	26	32	25	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	20	26	32	35	38	38	29	44	44	16	46	36	36	35	31	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	7	17	23	26	29	30	30	30	30	18	30	29	23	23	24	12	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	11	22	32	36	14	48	33	44	38	48	44	38	45	46	40	35	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	19	30	28	32	46	48	58	57	58	52	57	56	28	43	14	39	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	9	11	31	35	37	39	41	34	42	40	40	36	37	29	23	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	22	76	139	219	282	349	370	417	382	450	406	442	436	437	395	368	344	326	
PCUF	CUFG	5	5	6	6	7	4	5	6	6	5	6	6	6	7	5	11	10	15	13	12	14	14	10	9	9	9	10	9	9	11	11	
PCUF	CUFK	3	2	4	3	2	4	3	3	4	3	3	4	3	4	2	4	2	3	3	3	3	3	3	3	3	4	2	3	4	2	3	
Total Co-Gen		8	7	10	9	9	8	8	9	10	8	9	10	9	11	7	15	12	18	16	15	17	17	13	12	12	13	13	11	12	13	11	
Total Gen		14383	14124	13882	13674	13344	13146	12985	12695	12587	12531	12332	12270	12219	12137	11801	11260	11051	11479	11595	11922	12224	12571	12817	13000	13031	13091	13335	13473	13597	13783	13845	
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	

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																								
TIE-HVDC		-28	-28	-29	-29	-29	-28	-30	-28	-29	-29	-30	-31	-28	-29	-29	-29	-29	-29	-29	-29	-28	-30	-29	-28	-31	-30	-28	-28	-28																			
TIE-PLTG		94	75	120	120	74	42	95	21	119	74	66	33	10	36	53	76	26	98	82	67	33	18	49	70	66	40	112	98	40	29	-30	46	-29	-12	-72	17	4	-16	-32	-36	-31	24	21	-14	24	15	82	120
Interconnection		66	47	92	91	45	14	65	-7	91	46	36	3	-20	8	24	48	-2	70	53	38	3	-13	20	40	36	11	82	69	11	0	-59	17	-58	-41	-102	-12	-26	-45	-62	-65	-61	-4	-7	-45	-6	-13	54	91
System Total		14328	14088	13801	13594	13309	13142	12930	12712	12506	12495	12306	12277	12250	12140	11788	11223	11064	11420	11553	11895	12233	12596	12809	12972	13007	13092	13265	13416	13597	13794	13915	14027	14066	14047	13864	13696	13573	13607	14577	15380	15297	15375	14996	14856	14613	14573	14412	14201
SRev ST-Coal		528	514	514	266	415	566	555	603	586	686	682	688	706	786	855	1038	1035	967	973	848	819	780	722	696	787	789	892	771	787	734	617	583	540	544	550	559	551	570	465	461	466	610	321	323	323	313	326	383
SRev CCGT-Gas		278	530	211	278	226	192	325	584	632	599	675	506	509	506	555	549	495	570	555	512	480	468	443	433	489	504	582	533	505	502	413	414	339	410	346	620	421	357	203	51	94	96	79	87	89	56	84	113
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 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 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	0
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		1077	1077	1203	1077	1178	1178	1052	1052	1178	1304	1304	1304	1304	1304	1304	876	1178	1178	1178	1027	1027	926	926	1027	1153	1153	1304	1304	1178	1178	976	1077	976	1077	1077	1178	1178	1178	850	512	476	0	0	0	576	763	763	850
Hydro		91	92	92	224	230	228	293	304	247	217	220	218	202	151	155	384	121	136	136	128	120	105	250	128	129	120	179	170	211	159	104	215	131	218	126	227	90	209	406	273	359	478	850	1015	617	219	272	266
S.Reserve Total		1974	2213	2020	1845	2049	2164	2225	2543	2643	2806	2881	2716	2721	2747	2869	2847	2829	2851	2842	2515	2446	2279	2341	2284	2558	2566	2957	2778	2681	2573	2110	2289	1986	2274	2124	2609	2240	2339	1949	1322	1395	1184	1250	1425	1630	1376	1470	1637