

Daily System Generation Summary on Saturday

Saturday, February 12, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,430 MW
Distillate	0 MW
Total TNB	2,430 MW
Total IPP	15,109 MW
Total Co-Gen	0 MW
Total System	21,098 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,754	3.49 %
Gas	46,424	13.80 %
Total TNB	58,178	17.30 %
ST-Coal	168,205	50.01 %
LSS	4,039	1.20 %
Gas	104,779	31.16 %
Total IPP	277,023	82.37 %
Co-Gen	1,234	0.37 %
Total Co-Gen	1,234	0.37 %
Total Generation	336,435	100.04 %
PLTG	-598	-0.18 %
HVDC	722	0.21 %
Interconnection	124	0.04 %
Net Energy	336,311	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:	20:00:00 Hour
Total Set On Bus	17,102 MW
TNB Generation	3,856 MW
IPP Generation	12,093 MW
Spinning Reserve	1,107 MW
Maximum Demand	15,977 MW
Net Energy	336,311 MWH
Load Factor	87.71 %

Fuel Cost

Total Cost:	76,484,788.83 RM
Cost per Unit	22.73 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	736
Hydro	255
Syncon	581
Thermal	349
Total	1,921

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	171
Total TNB	219
CBPS	53
EMPP	293
NPRI	160
PCGP	88
PGLA	71
PLPS	2
SGB3	0
SPGP	101
Total IPP	768
Total Gas	987
Total Gas Required	987

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	13954	13290	12883	12573	12229	12064	12178	12251	12119	13326	14072	14554	14456	14255	14739	15075	15209	15116	14780	14837	15977	15852	15190	14845

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 2, 2022 3:33:26 PM
(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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																										
JMAH	U001	507	504	405	306	356	359	358	356	358	357	307	307	309	356	356	354	355	451	498	625	652	687	689	693	567	547	550	605	692	694	695	696	699	696	697	696	696	695	695	697	695	695	696	695	695	696	694	698	693	693	691	694
JMAH	U002	570	504	404	304	354	353	356	355	354	353	304	304	304	355	354	355	354	433	502	630	655	696	697	693	578	544	547	604	694	697	695	695	692	695	696	694	695	697	695	696	695	695	695	695	694	694	696	694	698			
JMHE	U001	897	898	851	843	746	751	751	751	753	751	750	751	750	749	751	753	751	745	752	753	814	850	848	899	897	901	902	903	899	928	947	944	948	954	949	952	947	949	947	948	948	948	950	950	948	947	953	952				
JMHE	U002	550	406	313	316	310	217	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
JMJG	U002	665	666	668	667	670	667	667	667	667	667	673	666	666	673	669	670	666	672	664	657	678	667	669	670	669	672	670	664	668	666	672	663	670	666	668	645	654	652	640	658	642	648	653	648	599	597	596	601				
JMJG	U004	854	852	845	848	804	801	801	801	801	798	801	801	803	801	803	803	800	798	801	801	816	858	858	855	858	856	859	859	859	858	858	855	858	856	858	856	858	856	858	857	858	858	855	856	856	854	859					
JMJG	U005	900	895	848	841	752	748	750	750	752	746	750	747	752	750	749	751	753	747	748	748	793	852	883	898	901	900	902	900	900	946	938	939	940	941	941	939	944	939	938	939	939	938	938	939	942	938	943	939				
PKLG	U003	154	148	153	151	151	152	152	151	152	151	152	151	151	152	152	151	151	151	233	259	260	255	256	257	256	255	253	254	254	255	254	259	255	254	253	252	254	254	251	252	254	254	253	254	255	256	255					
PKLG	U004	206	164	156	153	154	153	156	154	150	156	155	155	157	156	156	155	163	152	153	260	282	277	273	275	276	272	273	277	278	276	278	283	279	276	278	280	275	275	277	276	278	274	278	278	277	278	278	274				
PKLG	U006	449	446	447	447	364	287	267	268	269	268	268	268	269	268	267	269	269	332	417	446	450	447	446	448	442	446	445	442	450	448	449	446	446	450	448	450	448	449	449	449	448	449	448	449	447	449	448					
TBIN	U001	569	499	407	349	344	349	351	350	350	351	315	303	358	351	351	351	534	623	650	646	619	651	643	527	500	500	501	552	689	690	688	688	689	689	689	689	689	689	689	690	690	688	690	688	690	692	689					
TBIN	U003	611	506	458	362	331	352	351	352	352	353	301	302	357	353	354	353	353	533	623	656	642	619	643	638	536	511	503	502	553	673	693	694	694	689	694	691	689	690	691	689	692	694	692	690	686	690	690	690				
TBIN	U004	793	793	793	791	795	793	792	793	792	794	792	792	792	793	791	793	795	793	792	793	793	795	792	793	809	817	809	794	793	793	793	793	542	521	519	513	513	513	518	517	511	518	517	513	513	519	515	524	502			
Total ST-Coal		7725	7281	6748	6378	6131	5982	5752	5748	5750	5745	5567	5547	5668	5757	5753	5759	5761	6278	6639	7223	7476	7630	7705	7759	7323	7223	7216	7307	7584	7925	7962	7707	7693	7683	7684	7658	7660	7660	7645	7662	7654	7657	7666	7656	7605	7602	7620	7601				
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	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	0			
CBPS	BLK2	298	357	352	351	353	357	363	357	354	354	357	363	363	364	365	362	356	359	368	359	354	362	361	350	349	356	355	359	299	295	294	301	357	364	361	360	362	362	366	365	365	359	365	365	351	355	358					
EMPP	BLK1	707	706	707	706	707	708	709	707	706	706	711	711	711	710	709	707	711	711	709	707	708	709	705	707	708	707	711	710	707	707	710	706	710	707	712	709	710	712	709	709	708	708	708	705	704	705	705					
EMPP	BLK2	705	706	707	706	707	707	710	707	706	706	710	711	710	710	711	711	708	710	710	706	707	708	709	706	708	708	708	711	711	707	707	710	705	710	708	710	708	710	710	711	710	708	708	709	707	706	705	705				
EMPP	BLK3	283	374	600	765	766	766	764	767	769	767	768	771	545	626	626	628	615	613	613	621	627	631	626	619	618	615	618	615	615	618	616	611	611	612	352	353	352	352	352	352	353	353	352	352	351	375	768	764				
GLGR	GT01	67	67	68	68	68	69	70	68	68	68	69	67	69	70	69	68	67	67	69	68	67	68	68	68	68	67	68	69	68	67	67	67	68	68	67	68	68	67	66	108	108	107	107	107	106	107	80	67				
GLGR	GT02	67	68	68	68	67	67	68	68	67	68	68	67	67	68	67	68	67	67	68	67	68	67	67	67	66	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	108	106	106	106	106	106	79	67				
GLGR	ST1C	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	71	71	71	71	71	72	71	72	71	72	71	72	71	72	71	72	71	91	97	96	97	97	96	84	71						
NPRI	BLK1	400	418	494	461	454	509	532	510	451	459	520	517	538	532	538	529	505	517	523	511	498	511	516	499	502	510	511	516	515	513	503	512	503	520	513	517	518	517	520	515	515	514	512	515	505	502	504	506				
NPRI	BLK2	305	511	507	508	509	512	521	514	509	509	515	520	529	523	527	521	520	518	527	516	504	515	519	504	508	514	514	520	518	520	509	516	509	519	512	519	517	515	519	512	515	512	511	515	505	502	505	505				
PCGP	PGRG	582	594	586	588	589	592	606	595	587	588	598	601	615	605	614	603	597	598	612	594	582	598	603	581	589	596	592	603	602	599	589	602	587	603	593	604	601	599	600	595	599	593	596	596	584	581	585	587				
PGLA	GT11	164	167	165	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	129	129	218	213	193	190	188	187	216	216	215	215	215	213	213	185	186					
PGLA	GT12	168	171	168	174	216	158	161	158	155	156	159	160	164	161	164	161	156	157	160	156	151	156	158	151	152	155	154	156	157	155	159	170	167	227	217	197	193	191	191	219	219	219	219	219	217	216	189	188				
PGLA	ST10	199	201	199	110	102	90	90	90	90	90	91	92	91	91	91	89	90	90	90	89	90	90	90	90	90	91	90	90	90	91	90	86	151	247	239	231	217	215	215	238	238	236	235	237	233	231	223	213				
PLPS	GT11	129	129	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	ST18	58	57	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
SGB3	GT31	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							

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
HTRG	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
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	22
KNRG	HY03	21	21	21	22	22	22	23	22	22	22	23	23	23	22	22	23	22	22	21	22	36	36	36	35
KNYR	HY01	60	62	59	60	62	63	99	64	61	61	73	63	103	82	102	90	72	88	101	81	61	78	96	60
KNYR	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
KNYR	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
KNYR	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
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	18	18	18	18	18
LPIA	HY02	20	20	20	20	20	20	19	19	19	19	19	19	19	19	19	18	18	18	19	19	19	19	19	19
MNOR	HY01	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
PGAU	HY01	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
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	0	0	0	0	0	0	0	0
SIHY	HY02	50	50	50	50	50	50	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
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
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
TMGR	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
TMGR	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
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
TMGR	HY04	38	41	39	39	40	40	85	42	40	39	50	40	85	56	84	73	53	77	86	41	37	42	40	37
UJLI	HY01	80	86	82	84	175	177	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	0	0	0	0	0	0	0	144	86	-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
UPIA	HY02	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		349	359	351	355	469	451	304	368	304	217	239	221	329	257	305	282	255	387	307	240	215	257	284	320
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	2	3	6	12	11	14	19	24	25	24	27	29
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	9	9	19	22	19	20	26	21	22	23
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	11	22	16	19	29	35	31	28
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	13	18	23	28	43	45	45	39	24
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	7	8	13	20	12	11	30	26	27	28	30
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	11	25	33	33	30	31	50	50	48
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	7	12	22	18	20	24	25	30	30
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	9	21	24	22	22	39	44	48	47	45	41
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	6	10	16	27	34	63	47	49	50	68	67
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	5	9	25	20	24	33	34	32	42	34	46
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	8	16	13	6	6	26	0	23	28
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	6	27	26	29	18	30	30	19	13
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	18	13	27	11	45	37	13	7	17
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	11	19	34	42	39	50	36	42	17	34
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	10	11	20	37	40	44	44	46	45
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	11	17	15	8	11	5	8	16	3
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	6	10	18	14	31	30	23	30	31	30	30	30

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																									
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	3	31	79	150	221	338	429	414	512	531	566	515	517	577	505	509	433	377	378	369	288	185	132	26	5	0	0	0	0	0	0	0					
PCUF	CUFG	28	29	27	29	28	28	29	27	28	29	26	28	29	28	27	24	23	22	22	24	22	23	22	23	25	25	24	25	26	26	25	27	25	24	23	18	20	21	21	22	23	23	26	28	28	28			
PCUF	CUFK	26	26	27	27	27	26	26	27	25	26	25	28	27	25	26	26	27	26	24	27	24	26	26	26	27	26	26	26	31	27	27	27	26	28	25	27	25	26	25	26	24	25	25	26	27	26			
Total Co-Gen		54	55	54	56	55	54	55	54	53	55	51	56	56	54	54	53	53	50	50	48	46	51	46	49	48	49	52	51	50	51	57	53	52	54	51	52	48	45	45	47	46	48	47	48	51	54	55	54	
Total Gen		13915	13503	13233	13100	12898	12605	12506	12400	12216	12130	12068	12055	12113	12182	12254	12195	12140	12852	13249	13780	14066	14435	14526	14604	14464	14295	14494	14760	15029	15112	15189	15300	15221	15153	14986	14862	14737	14873	15650	15995	15910	15854	15627	15198	15131	14851	14755		
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				
TIE-HVDC		29	30	30	30	30	30	30	30	30	30	30	30	31	31	30	30	30	31	31	31	31	31	31	31	29	29	30	30	30	30	30	30	31	31	31	29	29	31	31	31	29	29	31	31	31				
TIE-PLTG		-68	-52	-87	-45	-15	-6	-97	-78	-43	-9	-26	-30	-95	-20	-28	-52	-8	-13	-107	-13	-37	-46	-58	-43	-23	-46	-61	-77	-8	0	7	60	61	-29	7	3	51	32	8	1	-13	12	-28	4	-21	-24	-25	-12	
Interconnection		-39	-22	-57	-15	15	24	-67	-49	-13	21	4	0	-65	11	3	-22	21	17	-77	18	-6	-15	-28	-13	8	-16	-30	-48	21	30	37	90	91	2	37	33	82	63	36	29	18	43	2	33	8	7	6	19	
System Total		13954	13525	13290	13115	12883	12581	12573	12449	12229	12109	12064	12055	12178	12171	12251	12217	12119	12835	13326	13762	14072	14450	14554	14617	14456	14311	14255	14542	14739	14999	15075	15099	15209	15219	15116	14953	14780	14674	14837	15621	15977	15867	15852	15594	15190	15124	14845	14736	
SRev ST-Coal		571	717	811	632	714	720	669	668	667	670	662	668	670	660	661	664	666	668	672	609	466	381	360	372	497	491	498	516	394	209	172	227	191	201	200	186	184	184	199	182	190	187	178	188	189	192	174	193	
SRev CCGT-Gas		1631	1558	1511	1155	864	989	711	877	1001	996	897	880	828	851	822	871	919	899	846	912	980	898	889	995	966	732	786	908	967	975	1163	860	645	417	476	368	398	397	386	227	211	239	235	226	303	315	557	622	
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	1	0	0	0	0	0	-1	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	0
SRev 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
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	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	0
Syncon		479	479	479	479	328	479	666	666	666	853	853	853	702	853	853	853	853	666	853	853	853	702	853	752	651	651	651	651	651	651	313	464	752	752	752	853	853	666	277	126	277	277	277	464	565	853	853		
Hydro		256	246	254	250	287	154	64	181	245	145	123	141	184	105	57	80	107	167	60	127	152	261	83	198	150	127	128	101	110	105	110	333	218	226	97	160	46	124	324	473	580	493	562	699	518	493	189	194	
S.Reserve Total		2937	3000	3055	2516	2193	2342	2110	2392	2579	2664	2535	2542	2384	2469	2393	2468	2545	2400	2431	2501	2451	2242	2185	2317	2264	2001	2063	2177	2122	1940	2096	1733	1517	1596	1525	1466	1481	1558	1575	1159	1107	1196	1252	1390	1474	1565	1773	1862	