

Daily System Generation Summary on Saturday

Saturday, December 18, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,538 MW
Distillate	0 MW
Total TNB	2,538 MW
Total IPP	15,404 MW
Total Co-Gen	0 MW
Total System	20,630 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,294	3.83 %
Gas	36,190	11.26 %
Total TNB	48,484	15.09 %
ST-Coal	166,935	51.95 %
LSS	1,205	0.37 %
Gas	104,261	32.44 %
Total IPP	272,401	84.77 %
Co-Gen	1,153	0.36 %
Total Co-Gen	1,153	0.36 %
Total Generation	322,038	100.21 %
PLTG	-41	-0.01 %
EGAT	3	0.00 %
HVDC	718	0.22 %
Interconnection	680	0.21 %
Net Energy	321,358	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	16,465 MW
TNB Generation	2,309 MW
IPP Generation	12,347 MW
Spinning Reserve	1,757 MW
Maximum Demand	14,685 MW
Net Energy	321,358 MWH
Load Factor	91.18 %

Fuel Cost

Total Cost:	66,323,606.52 RM
Cost per Unit	20.59 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	260
Hydro	242
Syncon	868
Thermal	644
Total	2,014

Time	Weather	Temperature
Afternoon	Cloudy	27
Morning	Rainy	22

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	107
Total TNB	135
CBPS	53
NPRI	158
PGLA	63
PLPS	4
Total IPP	280
Total Gas	415
Total Gas Required	415

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	13630	13003	12533	12253	12093	11960	12028	12126	12261	13303	14082	14412	14155	13893	13931	14052	14004	13751	13720	14254	14606	14201	13550	13136

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:47:53 PM
(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	402	354	307	302	305	303	302	335	356	357	354	355	356	357	355	354	417	610	658	695	697	696	697	694	696	695	695	695	695	695	656	654	691	697	696	699	657	655	655	657	696	695	659	604	554	452	388	436	384
JMAH	U002	402	352	328	303	305	303	303	346	353	355	354	355	355	353	355	354	412	612	659	697	694	695	695	696	699	695	696	694	695	655	655	694	696	692	696	653	656	654	656	696	696	677	605	555	451	405	435	380	
JMHE	U001	894	901	899	792	800	797	801	797	800	805	800	800	803	804	800	800	799	801	852	847	907	898	898	898	897	897	896	898	893	898	896	892	902	900	903	898	901	903	942	940	939	940	937	890	884	839	838	837	
JMHE	U002	896	901	899	790	799	798	798	798	799	807	800	800	803	800	801	799	799	799	852	848	890	901	896	900	897	900	899	898	896	901	898	893	900	898	901	892	900	902	939	940	939	939	935	890	886	837	840	840	
JMJG	U001	671	661	643	593	542	545	545	592	645	640	651	639	648	651	645	646	670	668	662	675	676	685	683	684	685	678	683	682	679	677	679	678	679	682	676	682	679	680	680	678	681	677	677	678	678	607	596	532	
JMJG	U002	683	661	632	592	542	550	548	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	U003	664	649	626	596	533	548	542	592	644	640	642	649	639	645	648	643	671	667	663	668	664	678	679	678	677	678	675	682	678	672	680	673	675	675	677	673	671	672	677	677	675	676	677	675	673	620	594	535	
JMJG	U004	904	900	902	867	850	851	851	850	850	850	852	852	850	848	853	853	850	850	849	867	901	901	902	903	904	906	901	904	904	900	901	903	901	904	902	900	902	936	936	934	931	933	934	923	865	851	849		
JMJG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	U003	149	149	151	150	151	151	150	151	151	152	151	151	151	152	151	152	150	249	275	282	281	281	264	202	205	204	208	271	278	256	210	206	202	150	154	155	155	155	155	154	155	152	154	154	156	154	157	155	
PKLG	U006	304	273	269	268	269	267	269	267	270	268	270	269	269	269	269	269	268	331	423	445	452	447	448	446	447	450	447	449	446	414	364	358	351	267	267	272	267	269	265	269	268	268	269	269	268	269	270	267	
TBIN	U001	401	340	304	300	301	301	302	318	349	351	352	351	349	348	352	351	350	406	400	449	498	550	540	500	500	449	398	401	401	350	350	349	350	351	349	351	350	349	453	498	501	500	456	441	340	302	302	302	
TBIN	U002	404	337	301	300	302	302	304	317	326	353	352	354	352	353	352	352	352	401	403	457	493	553	545	484	503	450	402	404	403	352	353	353	352	352	353	352	351	352	455	494	498	497	467	442	338	302	304	304	
TBIN	U003	403	344	300	302	301	300	302	316	353	354	353	353	354	352	352	353	353	406	402	453	502	551	546	501	502	453	403	403	403	352	352	352	352	352	354	353	352	354	352	426	500	501	501	468	442	333	303	306	302
Total ST-Coal		7177	6822	6561	6155	6000	6016	6017	5679	5896	5932	5931	5928	5929	5932	5933	5926	6091	6800	7099	7365	7621	7836	7792	7585	7611	7453	7308	7378	7371	7236	7151	7242	7306	7232	7282	7250	7321	7370	7845	8129	8182	8142	7983	7725	7250	6753	6788	6548	
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	298	310	289	322	364	291	306	316	287	301	328	336	329	344	344	307	328	313	360	367	367	367	367	374	369	367	367	365	370	372	375	372	365	371	369	372	372	365	372	365	367	367	358	365	357	371	364	364	
EMPP	BLK1	702	709	701	696	709	704	707	701	700	713	711	708	709	709	710	710	709	705	706	707	712	710	712	710	706	709	707	709	698	720	711	709	708	710	710	716	723	713	720	714	709	708	704	713	699	708	709	709	
EMPP	BLK2	765	764	764	763	763	764	763	764	763	763	761	761	761	764	762	764	763	764	762	761	760	757	760	759	758	758	756	757	759	755	753	753	754	753	755	757	759	758	756	759	759	760	761	760	761	758	755	759	
EMPP	BLK3	304	305	304	382	382	382	382	424	431	433	431	431	480	483	481	481	530	529	529	578	631	678	750	750	751	750	749	749	753	748	746	747	750	604	530	531	454	455	378	380	378	380	358	357	357	356	356	356	
GLGR	GT02	96	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95			
GLGR	ST1C	40	40	40	40	40	40	40	40	40	41	40	40	40	40	40	40	40	41	41	40	39	44	44	45	45	46	46	46	45	41	41	41	41	41	40	40	40	40	40	40	40	40	40	40	40	40	41	40	
NPRI	BLK1	505	514	503	501	515	505	509	502	502	517	512	514	513	511	516	514	528	511	514	521	521	526	518	524	518	522	525	525	512	533	527	527	516	525	526	529	533	529	536	529	523	521	515	522	512	523	526	525	
NPRI	BLK2	509	520	507	505	518	509	514	506	508	522	515	519	519	515	520	519	523	511	514	520	520	521	514	520	513	515	520	520	508	529	521	520	512	520	520	526	531	522	532	523	519	516	510	515	506	519	520	519	
PCGP	PGRG	589	603	586	581	603	589	593	585	585	602	597	606	602	602	603	602	607	593	595	603	604	603	594	603	594	596	603	603	586	616	608	602	591	601	603	610	620	609	618	608	600	597	591	599	590	602	601	602	
PGLA	GT11	214	217	213	211	169	165	166	164	165	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT12	218	222	218	217	173	169	170	169	168	173	224	216	216	217	217	218	215	214	215	217	216	162	159	161	158	159	160	161	156	163	225	225	224	227	228	162	164	198	212	225	223	155	153	188	214	220	219	219	
PGLA	ST10	238	237	237	238	205	204	203	204	201	96	102	111	110	110	110	111	110	109	110	110	111	91	93	92	92	92	93	93	91	94	116	116	115	117	117	92	92	100	103	114	112	89	90	93	112	113	112	112	
PLPS	GT11	130	130	130	131	130	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	56	57	57	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
SPGP	BLK1	718	719	717																																														

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	0	0	0	0	0	0	0	0	0	0	25	37	37	37	37	23	36	36	36	36	36	36	36	36	37
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	35	35	35	35	35	35	35	35	35	35
KNYR	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
KNYR	HY03	-1	-1	-1	-1	-1	-1	28	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	59	59	58	60	60	59	58	58	58	63	62	75	71	94	79	72	74	58	58	71	71	81	61	89	61
LPIA	HY01	25	25	25	24	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	22	16	15	16	15	15
LPIA	HY02	24	24	24	25	25	25	25	24	24	24	24	24	24	24	25	25	25	25	25	19	15	15	9	8	8
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1
SIHY	HY01	31	31	31	31	31	31	31	31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY02	31	31	31	31	31	31	31	30	30	30	0	0	0	0	0	0	0	0	0	0	0	14	30	30	30
SIHY	HY03	31	31	31	31	31	31	31	31	30	30	29	29	30	30	0	0	0	0	0	0	30	50	50	50	50
SYPS	HY01	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	17
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	17
SYPS	HY03	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	17	17	17	17	17	17	17	17	17
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	0
TMGR	HY02	-1	-1	-1	-1	-1	-1	84	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	-1
TMGR	HY04	40	42	38	38	41	39	40	41	41	48	45	61	56	83	65	60	53	41	41	51	56	66	41	71	41
UJLI	HY01	-1	-1	-1	-1	-1	-1	137	-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	94	94	95	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	6	5	5	5	5	5	5	5	5	5	6	6	6	5	6	5	4	4	4	4	4	4	4	4	4
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	2	2	2	2	2	2	2	2
Total Hydro		367	376	373	376	378	375	362	625	372	384	318	374	342	434	400	410	291	290	330	351	357	425	520	671	447
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	6	7	14	14	10	5	4	6	6
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	5	6	11	8	12	27	16	14	12	9
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	5	7	6	7	11	12	30	17	9
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	5	4	9	12	11	15	10	5
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	6	7	6	9	5	4	4	4	1
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	3	6	12	8	13	14	30	16	21
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	4	4	10	8	12	17	11	9
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	7	13	29	25	34	25	43	40	27	27
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	3	6	7	9	10	13	16	19	16
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	5	8	15	15	16	13	11	14
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	6	3	2	2	4	1	2	2
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	5	9	6	14	5	14	12	4
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	13	13	14	15	18	23	25	33	20
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	14	11	10	4	2	2	1	5	4
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	12	17	15	17	15	15	16	24	17
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	6	19	35	55	87	118	154	176	180	211	201	179
PCUF	CUFG	28	29	28	29	29	26	28	27	29	29	28	29	29	29	28	27	30	28	29	29	28	28	28	29	28
PCUF	CUFK	22	23	22	24	23	23	24	21	4	5	4	5	20	22	23	22	23	13	5	4	4	7	5	23	24
Total Co-Gen		50	52	50	53	52	49	52	48	33	34	32	34	48	51	52	51	52	42	34	32	31	37	33	52	53
Total Gen		13658	13377	13021	12701	12549	12443	12281	12206	12137	12127	12000	12066	12092	12211	12185	12148	12286	12937	13338	13731	14068	14384	14441	14461	14181
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

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		29	31	29	29	29	31	29	30	29	30	30	29	31	32	31	31	31	29	31	31	30	30	31	31	29	28	32	29	31	29	30	30	32	29	31	31	29	29	30	30	31	29	29	29	29	29		
TIE-PLTG		0	-69	-11	24	-13	27	-3	29	14	-73	10	3	35	28	28	9	-6	-36	5	-32	-45	-77	0	-3	-5	-34	3	-8	3	-44	-36	14	29	15	41	36	51	-9	24	-7	18	-22	9	18	9	3	4	-38
Interconnection		28	-38	18	53	16	56	28	58	44	-44	40	33	64	58	59	41	25	-5	35	-3	-14	-46	29	27	26	-3	33	20	35	-16	-5	44	59	45	73	64	82	22	53	22	48	8	41	47	38	32	33	-8
System Total		13630	13415	13003	12648	12533	12387	12253	12148	12093	12171	11960	12033	12028	12153	12126	12107	12261	12942	13303	13734	14082	14430	14412	14434	14155	14007	13893	13938	13931	14046	14052	14012	14004	13826	13751	13707	13720	13828	14254	14686	14606	14440	14201	14070	13550	13365	13136	12954
SRev ST-Coal		773	821	892	932	931	931	930	863	815	818	811	815	816	807	810	816	769	768	679	558	547	537	552	536	528	536	533	540	545	788	791	780	769	706	662	794	870	823	781	658	614	739	742	815	761	889	893	892
SRev CCGT-Gas		246	189	273	263	312	428	387	531	549	479	306	295	252	231	225	264	179	239	185	247	200	201	301	264	353	397	379	427	447	315	122	132	167	131	136	275	259	192	138	130	150	249	278	195	208	138	140	147
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		1029	1029	1029	1029	1029	1029	1029	653	1029	1029	1029	1029	1029	842	842	691	1029	1029	1029	1029	1029	941	754	754	941	1029	691	842	842	842	842	842	842	842	842	691	842	842	842	754	754	842	842	842	754	842	842	
Hydro		193	184	187	184	193	196	209	322	199	187	153	122	129	124	158	299	80	161	121	100	94	138	330	179	216	217	492	309	321	215	254	267	256	247	245	282	120	264	255	215	295	282	276	226	267	116	264	245
S.Reserve Total		2241	2223	2381	2408	2465	2584	2555	2369	2592	2513	2299	2261	2226	2004	2035	2070	2057	2197	2014	1934	1870	1817	1937	1733	2038	2179	2095	2118	2155	2160	2009	2021	2034	1926	1885	2042	2091	2121	2016	1757	1813	2112	2138	2078	2078	1897	2139	2126