

Daily System Generation Summary on Saturday

Saturday, December 4, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,503 MW
Distillate	0 MW
Total TNB	2,503 MW
Total IPP	15,534 MW
Total Co-Gen	0 MW
Total System	20,880 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,682	5.57 %
Gas	27,289	8.13 %
Total TNB	45,971	13.70 %
ST-Coal	208,669	62.19 %
LSS	2,998	0.89 %
Gas	77,213	23.01 %
Total IPP	288,880	86.10 %
Co-Gen	947	0.28 %
Total Co-Gen	947	0.28 %
Total Generation	335,798	100.08 %
PLTG	-444	-0.13 %
HVDC	716	0.21 %
Interconnection	272	0.08 %
Net Energy	335,526	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	16,918 MW
TNB Generation	3,125 MW
IPP Generation	12,750 MW
Spinning Reserve	1,006 MW
Maximum Demand	15,862 MW
Net Energy	335,526 MWH
Load Factor	88.14 %

Fuel Cost

Total Cost:	72,249,008.14 RM
Cost per Unit	21.50 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,127
Hydro	592
Syncon	513
Thermal	327
Total	2,559

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	23

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	84
Total TNB	113
CBPS	48
KLPP	1
NPRI	129
PGLA	101
PLPS	52
SKSP	14
Total IPP	344
Total Gas	457

Total Gas Required 457

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	13988	13231	12842	12531	12244	12055	12137	12207	12337	13375	14080	14491	14454	14221	14596	14947	15024	14923	14578	15085	15800	15604	15179	14834

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:31:45 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	695	697	694	696	696	686	659	655	654	509	504	556	555	557	453	456	456	507	606	607	654	656	695	696	696	659	555	604	667	695	695	695	698	694	698	696	697	697	696	696	697	696	695	695	695	697					
JMAH	U002	699	695	693	695	695	686	656	655	655	501	505	558	556	551	452	456	454	506	609	603	627	658	697	695	694	654	552	584	684	697	692	696	694	695	695	692	695	696	695	693	694	693	695	696	697	695	694	697			
JMHE	U001	904	904	895	848	848	848	851	850	849	850	850	851	849	849	851	851	857	853	848	850	853	903	902	900	902	900	896	900	895	901	897	901	940	940	941	941	940	940	938	939	939	942	942	938	941	939	795	635			
JMJG	U001	669	670	671	672	669	672	671	670	668	676	673	673	673	650	644	667	671	675	673	673	669	671	674	667	673	668	668	672	671	668	668	668	669	668	675	675	675	662	662	665	665	665	665	665	665	665	665	665			
JMJG	U002	677	675	657	677	668	671	674	671	674	671	669	681	672	672	651	646	673	670	674	644	672	668	672	656	671	677	640	682	651	671	658	675	665	674	664	671	671	671	664	664	672	672	672	672	672	672	672	672			
JMJG	U003	661	673	666	663	668	661	668	661	673	664	666	668	665	667	637	659	674	663	666	662	666	666	666	661	665	664	666	660	667	662	666	665	667	668	662	663	663	663	668	668	666	666	666	666	666	666	666	666			
JMJG	U004	865	865	863	852	853	849	854	852	852	850	853	854	853	852	850	854	852	852	852	852	851	860	863	861	862	861	863	863	864	862	864	862	862	862	862	864	864	864	940	940	980	980	980	980	980	980	980	980	980		
JMJG	U005	897	895	888	846	849	847	850	851	848	848	848	853	848	848	847	851	853	853	850	850	852	889	892	886	891	892	890	891	895	892	890	890	887	892	891	895	895	895	886	886	891	891	891	891	891	891	891	891	891	891	
PKLG	U003	278	276	279	278	186	157	157	159	160	158	159	158	158	158	160	169	158	159	159	160	222	278	280	280	278	281	280	281	281	280	283	283	281	281	281	281	281	281	282	282	220	207	205	199	207	208	226	217			
PKLG	U004	282	276	277	276	201	155	154	163	157	151	155	156	155	156	157	151	156	156	154	153	158	203	270	274	275	282	276	277	276	275	277	278	277	277	277	277	276	277	277	277	276	277	275	278	279	275	278	275			
PKLG	U006	449	449	446	448	427	368	290	267	269	269	267	270	267	267	268	269	270	268	351	358	400	441	450	446	446	449	446	445	449	449	449	449	446	449	449	451	451	449	449	449	449	449	446	445	448	446	446	446			
TBIN	U001	689	690	689	687	689	683	650	617	597	558	499	557	549	550	486	399	403	509	551	605	652	689	689	690	689	610	548	500	581	695	687	689	690	690	691	691	689	691	689	686	690	692	690	686	690	686	690				
TBIN	U002	689	693	694	691	691	689	658	643	605	589	505	554	554	553	502	401	403	514	552	611	652	706	690	690	687	656	554	507	572	695	689	691	689	689	692	690	685	689	694	692	689	690	688	693	691	692	691	690			
TBIN	U003	691	691	691	693	689	684	652	634	601	579	504	559	552	551	488	396	403	514	553	601	651	694	691	687	690	623	556	507	579	690	688	692	689	689	691	691	690	689	693	691	689	690	690	690	689	683	694	693			
Total ST-Coal		9145	9149	9103	9022	8829	8656	8444	8348	8261	7875	7656	7949	7907	7904	7450	7193	7290	7694	8100	8228	8521	8924	9126	9096	9115	8878	8391	8368	8733	9136	9100	9134	9152	9173	9157	9179	9174	9176	9236	9166	9199	9207	9203	9200	9208	9197	9079	8914			
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	357	304	296	303	298	298	300	300	295	304	304	304	302	304	300	300	305	304	304	303	299	300	309	298	290	290	293	301	301	301	281	370	353	362	324	250	226	211	292	360	325	325	312	289	323	300	333	355			
EMPP	BLK1	0	0	0	0	0	0	0	0	0	238	407	123	240	375	721	771	769	771	769	764	765	765	251	500	500	700	698	701	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMPP	BLK2	379	380	379	380	380	378	378	379	379	379	379	378	379	379	380	382	379	379	377	379	380	376	500	500	500	698	700	743	754	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EMPP	BLK3	374	375	376	376	375	373	375	375	375	375	375	374	374	375	376	375	376	375	375	375	374	375	376	373	501	500	500	697	700	700	700	701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT01	97	95	95	95	95	96	95	95	95	95	97	94	97	95	96	96	95	96	95	96	95	96	96	94	97	95	96	95	96	94	96	95	94	97	97	96	95	96	95	95	96	95	96	96	96	95	95				
GLGR	ST1C	41	41	40	41	40	40	41	40	40	42	41	40	41	40	41	40	41	41	41	41	41	40	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41				
KLPP	GT13	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
KLPP	ST17	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
NPRI	BLK1	501	326	322	326	322	329	335	330	324	370	332	356	326	329	324	333	345	362	332	338	342	327	416	349	310	315	314	350	349	330	435	520	511	516	486	518	515	500	511	515	514	511	513	512	516	511	512	512	512		
NPRI	BLK2	338	333	323	332	326	334	341	335	327	376	336	368	330	334	327	339	344	365	335	345	349	329	364	353	316	319	317	358	378	335	474	521	517	517	487	522	518	485	514	519	515	514	515	500	514	507	512	517			
PCGP	PGRG	261	261	262	262	261	260	263	261	260	266	263	262	261	262	262	263	269	262	264	261	261	262	262	260	265	261	263	585	605	604	604	603	608	608	605	583	596	602	600	599	598	595	598	596	599	603					
PGLA	GT11	170	170	166	169	167	169	169	170	167	171	170	170	170	167	170	170	169	169	167	172	168	162	163	162	171	169	170	165	188	216	217	160	190	184	220	216	210	214	214	214	215	215	216	214	216						
PGLA	GT12	174	175	170	172	171	174	175	175	172	176	175	175	174	175	172	174	174	177	174	173	174	171	177	173	165	167	165	175	173	173	168	193	221	219	221	195	194	188	224	221	219	219	218	218	219	218	220	221			
PGLA	ST10	204	204	203	204	203	203	205	203	203	204	205	205	204	205	202	204	203	205	205	205	205	203	206	206	202	203	203	206	208	207	208	219	241	242	242	219	220	216	232												

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
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	66	-1	-1	120	63	-1
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	118	118	63	-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
HTRG	HY04	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	34	34	34	34	34	34	23	23	24	23	23	23	22	22	22	35	34	35	36	36	36	36	36	36
KNRG	HY02	36	36	36	36	36	36	35	25	24	25	24	24	25	36	36	36	36	36	36	23	20	21	20	20
KNRG	HY03	35	35	35	35	35	35	35	22	21	22	21	22	22	35	35	36	36	36	36	21	20	21	20	20
KNYR	HY01	96	95	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	59	59	95	96	96	68	66	95	67	64
KNYR	HY02	99	99	59	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	60	61	55	99	59	53	53	55	61	99
KNYR	HY03	97	97	59	0	0	0	0	0	0	0	0	0	0	54	53	53	55	97	53	48	47	50	56	97
KNYR	HY04	81	88	61	62	67	73	97	99	60	99	89	90	82	91	59	98	90	101	61	72	74	55	99	77
LPJA	HY01	25	25	25	25	25	25	25	22	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
LPJA	HY02	23	23	23	23	23	23	23	23	22	20	20	20	20	20	20	20	20	20	20	22	22	22	22	23
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
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	21	20	20	0	20	20	20	20
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	20	20	21	0	21	21	20	21
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	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	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	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	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
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	35	35	36	35	-1	-1	-1	-1
TMGR	HY03	73	69	45	41	53	61	83	83	39	83	73	71	64	83	40	83	78	83	42	51	53	41	82	58
TMGR	HY04	34	34	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	33	83	82	83	29	29	37	36
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
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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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
Total Hydro		755	756	529	434	391	404	451	452	368	386	361	361	339	369	425	488	469	522	679	801	805	720	857	729
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
BKLS	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
BSLS	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
GELS	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
JELS	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
KRLS	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

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																								
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	2	6	9	9	14	25	15	15	23	10	12	17	14	10	7	5	7	3	0	0	0	0	0	0	0	0	0	0					
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	13	9	19	18	30	28	30	7	30	30	28	30	29	18	16	13	11	3	5	1	0	0	0	0	0	0	0	0	0			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	7	41	93	160	221	275	308	380	405	481	418	441	455	427	348	330	295	260	193	177	133	83	47	25	3	0	0	0	0	0	0	0			
PCUF	CUFG	26	24	26	27	26	26	13	13	13	12	12	13	14	14	12	12	11	11	11	12	12	11	11	11	10	10	9	10	9	9	9	9	11	11	12	12	13	12	14	14	14	13	12	12				
PCUF	CUFK	27	27	25	27	25	26	26	25	27	26	25	26	25	26	28	26	25	26	26	28	25	26	28	25	25	25	26	26	26	26	26	26	26	26	25	26	25	26	25	26	26	25	25					
Total Co-Gen		53	51	51	54	51	52	39	38	40	39	37	37	39	39	41	40	38	39	37	36	37	38	37	39	36	35	35	34	36	35	35	38	38	35	37	37	38	37	39	37	39	40	40	39	37			
Total Gen		13964	13577	13267	13126	12856	12720	12566	12454	12254	12251	12088	12154	12136	12309	12237	12123	12264	12819	13368	13690	14044	14359	14414	14666	14455	14371	14311	14524	14569	14925	15022	14912	15108	15039	14955	14714	14605	14607	15127	15912	15845	15784	15634	15485	15184	14951	14892	14765
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				
TIE-HVDC		30	30	30	30	30	31	31	30	30	29	29	30	30	29	30	30	30	30	30	30	30	30	30	30	30	30	29	29	29	29	30	30	30	29	29	30	30	30	30	30	30	29	29	30	30			
TIE-PLTG		-54	-66	7	8	-16	-11	4	-8	-20	-46	4	-28	-31	-11	1	-49	-103	-92	-37	-69	-66	-71	-107	-78	-29	16	60	-20	-57	-3	46	-10	54	-14	2	-47	-2	33	12	20	14	-12	0	-12	-24	-42	28	37
Interconnection		-24	-37	36	38	14	20	35	22	10	-17	33	2	-1	18	30	-19	-73	-62	-7	-39	-36	-41	-77	-48	1	46	90	10	-27	26	75	19	84	16	32	-17	27	62	42	50	45	18	30	18	5	-12	58	67
System Total		13988	13614	13231	13088	12842	12700	12531	12432	12244	12268	12055	12152	12137	12291	12207	12142	12337	12881	13375	13729	14080	14400	14491	14714	14454	14325	14221	14514	14596	14899	14947	14893	15024	15023	14923	14731	14578	14545	15085	15862	15800	15766	15604	15467	15179	14963	14834	14698
SRev ST-Coal		186	182	223	257	327	393	529	599	606	665	663	643	659	660	736	716	653	665	653	690	569	323	205	234	216	426	550	516	435	195	226	197	179	158	174	152	157	155	175	211	190	182	186	189	181	202	320	267
SRev CCGT-Gas		1510	1745	1712	1676	1710	1682	1663	1678	1709	1581	1668	1609	1683	1674	1695	1668	1643	1593	1674	1657	1653	1689	1533	1639	1777	1759	1768	1626	1618	1541	743	266	121	448	533	596	583	656	287	172	225	226	240	290	499	485	274	238
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		
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		
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		
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		
Syncon		713	713	814	901	902	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	800	626	626	626	626	626	713	713	713	713	526	526	439	439	439	439	313	626	626	626	439	187	0	0	187	313	626	626	626	
Hydro		128	127	253	161	103	90	43	42	126	108	133	133	155	125	219	108	116	63	556	694	690	619	182	610	700	703	688	617	565	494	480	487	486	535	498	338	407	426	661	436	669	735	682	653	440	479	456	454
S.Reserve Total		2537	2767	3002	2995	3042	3167	3237	3321	3443	3356	3466	3387	3499	3461	3652	3494	3414	3323	3683	3667	3538	3307	2596	3109	3406	3601	3719	3472	3144	2757	1889	1389	1225	1580	1518	1712	1773	1863	1562	1006	1084	1143	1295	1445	1746	1792	1676	1585