

Daily System Generation Summary on Saturday

Saturday, October 30, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	15,733 MW
Total Co-Gen	0 MW
Total System	19,964 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,070	5.66 %
Gas	35,536	10.03 %
Total TNB	55,606	15.69 %
ST-Coal	214,230	60.44 %
LSS	2,367	0.67 %
Gas	82,004	23.14 %
Total IPP	298,601	84.25 %
Co-Gen	1,176	0.33 %
Total Co-Gen	1,176	0.33 %
Total Generation	355,383	100.27 %
PLTG	228	0.06 %
HVDC	718	0.20 %
Interconnection	946	0.27 %
Net Energy	354,437	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	17,509 MW
TNB Generation	2,947 MW
IPP Generation	13,122 MW
Spinning Reserve	1,392 MW
Maximum Demand	16,034 MW
Net Energy	354,437 MWH
Load Factor	92.11 %

Fuel Cost

Total Cost:	74,571,114.06 RM
Cost per Unit	20.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	652
Hydro	218
Syncon	576
Thermal	194
Total	1,640

Time	Weather	Temperature
Afternoon	Rainy	29
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	47
TJGS	93
Total TNB	139
CBPS	47
KLPP	60
NPRI	112
PGLA	101
PLPS	52
SGB3	51
SGRI	52
SKSP	3
Total IPP	479
Total Gas	618
Total Gas Required	618

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	15828	15171	14528	14047	13655	13330	13259	12939	12735	14026	14801	15301	15308	15209	15468	15461	15355	15154	14911	15620	16003	15787	15312	15055

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 3, 2021 1:22:16 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	U002	708	704	707	704	707	705	708	706	700	703	705	703	705	706	707	708	696	699	695	696	695	697	694	695	696	699	695	697	694	695	697	694	698	695	691	698	697	692	699												
JMHE	U001	973	974	974	978	975	901	897	901	850	851	850	851	849	849	852	851	849	854	851	872	932	928	971	968	963	968	966	970	971	972	972	970	970	967	974	972	973	969	973	977	978	975	978	980	979	974	970	974			
JMHE	U002	979	982	981	983	976	899	897	901	847	850	848	853	849	849	851	851	850	853	850	882	931	929	973	968	966	964	968	970	971	967	971	969	970	969	975	971	973	968	973	973	981	982	978	980	980	979	976	978			
JMJG	U001	447	447	447	445	477	505	495	499	568	640	679	679	686	685	685	683	683	688	673	685	680	684	679	685	679	684	678	678	684	681	688	679	679	680	683	683	683	682	683	678	681	681	683	682	679	679	681	683			
JMJG	U002	449	450	450	450	475	503	499	497	501	517	601	683	682	679	679	680	678	677	679	678	680	677	677	677	682	678	679	682	679	677	679	676	673	677	679	681	679	672	680	677	678	679	677	678	676	679	679	674			
JMJG	U003	492	497	496	495	495	498	497	497	498	504	518	509	509	509	509	558	634	686	683	680	674	682	678	679	680	678	679	677	680	680	677	678	680	680	678	685	678	683	677	678	677	678	674	678	683	681	680	680			
JMJG	U005	892	891	892	892	890	887	888	889	870	854	851	854	849	848	848	851	852	852	849	863	890	891	891	891	890	890	892	892	892	890	891	891	890	892	891	892	895	895	888	892	891	892	890	894	891	890	894	892			
PKLG	U003	279	278	279	281	281	280	281	277	278	277	278	277	278	280	276	279	277	276	277	277	279	277	278	277	278	277	270	273	275	274	273	278	278	282	282	276	279	280	280	278	279	277	280	278	279	276	277	275			
PKLG	U004	272	276	274	277	275	274	274	274	273	276	273	275	278	277	273	269	273	272	272	275	273	276	274	274	274	272	272	273	272	271	274	274	273	275	272	276	274	274	275	275	273	272	272	224	191	244	275				
TBIN	U001	693	699	698	699	696	698	697	697	697	697	695	698	697	697	696	699	649	689	686	454	609	693	690	689	689	690	689	698	701	699	699	698	697	701	700	700	699	699	699	699	696	698	697	691	699	697	696	696			
TBIN	U002	707	702	704	705	704	702	700	705	701	706	701	706	700	700	707	701	652	693	691	690	692	693	691	693	691	690	693	700	699	704	700	702	702	697	705	700	702	701	699	701	695	702	701	701	702	700	703	702			
TBIN	U003	705	701	699	702	700	703	701	701	701	700	701	700	701	707	701	702	653	692	691	691	691	691	690	692	691	691	692	699	702	701	702	703	700	701	702	701	700	702	703	705	698	704	698	700	699	698	702	701			
TBIN	U004	988	983	985	978	984	904	904	904	884	855	853	852	855	852	855	853	852	853	853	861	932	932	971	973	974	973	973	972	969	971	972	970	973	972	973	973	974	972	974	975	982	984	985	983	983	984	983	984			
Total ST-Coal		8584	8584	8586	8589	8635	8459	8438	8448	8368	8430	8553	8640	8638	8638	8639	8685	8598	8784	8753	8602	8961	9048	9157	9161	9153	9151	9142	9180	9190	9182	9195	9183	9179	9190	9208	9205	9202	9193	9199	9205	9205	9223	9208	9208	9172	9125	9177	9213			
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	0		
CBPS	BLK2	347	347	344	358	341	354	324	237	222	229	217	228	221	223	217	218	225	225	228	367	362	360	355	366	358	362	355	352	365	352	362	358	311	338	244	221	223	228	299	289	322	293	300	333	292	362	298	328			
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GLGR	GT01	67	67	67	68	66	67	67	67	69	69	68	68	68	69	69	67	67	68	69	68	68	69	67	67	67	68	68	69	68	69	69	70	66	69	67	69	68	69	102	73	79	79	69	68	67	67	68				
GLGR	GT02	68	69	68	68	68	68	67	68	67	68	67	67	67	67	68	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67			
GLGR	ST1C	71	72	72	72	72	71	72	72	72	71	72	71	72	71	71	71	71	71	71	72	72	72	71	72	71	71	72	71	72	72	72	72	72	72	72	72	72	72	89	81	83	83	71	71	72	71	71				
KLPP	GT13	138	139	139	135	135	136	135	132	136	136	136	137	138	137	136	137	138	136	135	134	133	132	133	132	131	135	135	123	130	124	130	126	127	127	127	127	127	127	130	133	133	133	134	127	133	133	133	133			
KLPP	GT14	156	156	157	155	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT15	148	148	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	212	213	212	165	135	67	67	67	71	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	65	151	141	144	141	141	139	139	140	141	138	139	139	139	143	143	143	143	143	142	143	143	143	143			
NPRI	BLK1	521	521	517	523	507	525	507	519	496	346	327	335	328	329	322	324	326	339	337	525	521	518	516	527	376	284	196	168	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPRI	BLK2	524	521	521	524	492	529	504	449	334	335	331	340	333	334	326	328	332	355	340	524	524	520	446	529	449	441	452	482	500	488	500	500	464	519	457	436	338	422	529	497	525	524	525	527	503	525	520	523			
PCGP	PGRG	603	598	599	612	588	607	586	604	605	513	398	312	304	353	261	262	260	272	605	605	605	599	609	592	598	591	589	617	596	610	604	602	598	612	602	608	605	608	591	603	604	604	608	595	602	599	603				
PGLA	GT11	217	216	217	191	182	172	166	170	170	171	170	173	172	170	168	168	169	174	171	170	170	170	214	170	167	212	166	165	173	183	171	189	170	168	173	169	170	171	190	215	218	217	218	216	217	216	188				
PGLA	GT12	221	221	220	194	186	176	170	175	174	175	174	178	175	174	172	172	174	179	175	174	174	218	173	170	219	170	169	176	185	175	192	174	172	176	174	174	175	193	219	222	222	221	223	220	221	219	192				
PGLA	ST10	240	237	239	215	216	206	205	204	203	204	203	205	205	206	202	205	205	207	206	208	207	208	242	212	208	230	204	206	208	219	208	221	205	207	206	206	205	207	219	238	241	237	237	235	239	238	218				
PLPS	GT11	128	129	128	128	129	130	129	129																																											

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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				
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	12	15	18	25	30	41	46	47	25	30	13	11	7	4	1	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	1	2	5	16	20	24	28	30	20	22	16	1	1	0	4	8	4	10	5	3	1	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	5	18	21	27	36	11	13	16	5	1	1	5	13	16	19	18	16	11	14	14	8	4	1	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	3	11	19	30	35	41	47	50	36	46	52	51	44	20	16	11	18	20	23	5	3	5	2	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	2	3	11	19	9	19	35	29	37	41	40	23	32	17	20	20	9	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	13	3	5	9	17	8	5	2	3	5	8	8	8	8	12	9	8	7	3	0	0	0	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	0	0	4	12	21	13	30	30	30	30	30	30	30	30	30	30	30	30	30	30	26	16	7	4	1	0	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	28	91	170	226	278	294	354	376	344	395	347	276	314	250	275	191	178	123	103	59	38	23	7	1	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	24	24	23	23	24	24	24	23	24	24	24	23	24	24	25	24	24	22	22	23	24	21	26	24	23	23	22	22	21	21	21	22	22	23	22	22	23	22	22	23	22	22	22	22	22	22	22	23			
PCUF	CUFK	26	27	26	26	27	27	26	26	27	25	27	26	27	29	26	27	25	26	26	24	25	26	26	25	24	26	27	26	27	25	27	27	27	25	26	25	26	27	26	26	26	25	28	26	27	26	27	26			
Total Co-Gen		50	51	49	49	51	51	50	50	50	49	51	50	50	53	50	52	49	50	48	46	48	50	47	51	48	49	50	48	49	46	48	48	49	47	49	47	48	50	48	48	47	47	48	47	50	48	49	49	49		
Total Gen		15898	15414	15241	14836	14610	14378	14131	13876	13655	13496	13367	13334	13299	13341	12986	12716	12709	13482	13958	14499	14824	15111	15309	15498	15425	15362	15237	15422	15437	15765	15501	15517	15397	15530	15157	15004	14922	15049	15656	16117	16028	15933	15869	15579	15380	15211	15159	14972			
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	0	0	0	0		
TIE-HVDC		30	30	30	30	29	29	30	30	30	31	31	30	31	30	30	30	30	30	30	30	30	29	29	30	30	30	30	30	31	31	28	31	31	30	29	29	29	29	29	29	29	31	31	32	29	29	29	29			
TIE-PLTG		43	5	43	-12	56	8	58	30	-26	-15	10	-15	14	30	20	-13	-52	-67	-95	-12	-4	-57	-18	-3	91	73	1	36	-58	95	11	43	14	90	-24	-34	-15	10	10	58	0	-24	55	-4	42	-6	78	-10			
Interconnection		73	35	73	19	85	38	87	60	4	15	41	15	44	61	51	17	-22	-38	-65	18	26	-27	11	26	120	103	31	66	-28	126	43	71	45	121	6	-6	14	40	39	87	29	7	86	28	71	23	107	19			
System Total		15828	15382	15171	14820	14528	14343	14047	13820	13655	13485	13330	13323	13259	13284	12939	12703	12735	13523	14026	14484	14801	15141	15301	15475	15308	15262	15209	15359	15468	15642	15461	15449	15355	15412	15154	15013	14911	15012	15620	16034	16003	15930	15787	15554	15312	15191	15055	14957			
SRev ST-Coal		72	72	70	67	21	296	311	308	371	572	444	363	360	358	363	406	579	403	426	520	365	278	169	165	173	175	184	146	136	144	131	143	147	136	118	121	124	133	127	121	121	103	118	118	122	136	137	113			
SRev CCGT-Gas		634	747	543	739	637	494	701	968	1108	1339	1606	1497	1529	1488	1692	1973	1950	1691	1218	698	636	480	441	426	707	515	943	798	1062	725	676	613	819	792	1045	1135	1204	1128	698	297	449	476	458	364	541	458	542	543			
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	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 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		87	512	699	699	699	699	699	699	699	699	548	699	699	699	699	699	699	699	699	512	548	699	612	699	425	274	612	612	612	512	699	699	699	699	548	699	699	699	512	338	238	425	699	699	548	699	699	699			
Hydro		587	217	125	112	138	90	108	105	106	95	233	98	99	101	250	315	318	71	91	156	234	101	157	76	209	253	245	177	155	216	88	106	105	103	349	235	232	160	342	640	678	464	243	237	375	198	192	179			
S.Reserve Total		1380	1548	1437	1617	1495	1579	1819	2080	2284	2705	2831	2657	2687	2646	3004	3393	3546	2864	2434	1886	1783	1558	1379	1366	1514	1217	1984	1733	1965	1597	1594	1561	1770	1730	2060	2190	2259	2120	1679	1396	1486	1468	1518	1418	1586	1491	1570	1534			