

Daily System Generation Summary on Saturday

Saturday, October 23, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,367 MW
Distillate	0 MW
Total TNB	2,367 MW
Total IPP	17,805 MW
Total Co-Gen	0 MW
Total System	22,614 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,077	6.30 %
Gas	37,414	10.68 %
Total TNB	59,491	16.98 %
ST-Coal	216,580	61.83 %
LSS	3,508	1.00 %
Gas	69,776	19.92 %
Total IPP	289,864	82.76 %
Co-Gen	1,287	0.37 %
Total Co-Gen	1,287	0.37 %
Total Generation	350,642	100.11 %
PLTG	-187	-0.05 %
EGAT	1	0.00 %
HVDC	570	0.16 %
Interconnection	384	0.11 %
Net Energy	350,258	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	17,470 MW
TNB Generation	2,810 MW
IPP Generation	13,416 MW
Spinning Reserve	1,189 MW
Maximum Demand	16,267 MW
Net Energy	350,258 MWH
Load Factor	89.72 %

Fuel Cost

Total Cost:	72,428,886.67 RM
Cost per Unit	20.65 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	156
Hydro	310
Syncon	388
Thermal	507
Total	1,361

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	112
Total TNB	143
CBPS	54
KLPP	4
NPRI	163
PGLA	104
PLPS	54
Total IPP	379
Total Gas	522
Total Gas Required	522

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	15081	14565	14055	13558	13231	13084	12931	12693	12595	13699	14416	14933	15015	14914	15349	15663	15607	15305	14959	15447	16186	15947	15524	15183

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 3, 2021 1:17:51 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	614	603	601	600	563	552	552	555	552	552	552	552	552	502	398	401	455	502	502	503	553	549	631	651	653	653	693	694	693	692	693	693	693	693	692	600	545	551	605	694	689	692	696	692	693	693	692	692
JMAH	U002	596	606	604	603	563	553	555	557	556	555	555	556	557	502	402	406	462	504	504	504	557	556	653	656	659	657	690	695	698	696	694	696	694	698	603	554	554	596	694	695	699	697	697	693	691	695	695	
JMHE	U001	981	981	980	977	905	901	900	899	800	800	799	797	800	803	806	801	798	801	795	800	857	983	980	981	984	982	980	978	977	983	978	981	983	977	977	983	982	982	982	983	981	979	983	981	978	978	979	978
JMHE	U002	979	981	982	977	903	895	898	901	803	800	800	797	800	804	800	801	801	803	798	800	902	984	980	979	981	977	977	979	976	981	978	980	983	978	978	980	981	983	983	981	979	982	980	978	977	980	981	979
JMIG	U002	671	672	675	672	656	591	593	596	597	595	596	596	601	595	603	531	502	552	642	649	649	667	671	667	664	667	649	648	647	645	651	652	641	592	601	598	598	668	686	673	672	670	675	672	673	671	676	671
JMIG	U003	680	680	680	680	639	574	580	576	581	581	579	574	573	576	576	506	489	537	576	628	633	656	647	657	659	650	659	654	652	651	652	650	652	653	648	651	651	651	642	644	645	653	646	649	648	649	646	650
JMIG	U004	975	976	975	976	926	870	810	801	804	804	804	803	800	804	801	804	804	857	915	972	969	974	972	972	973	971	968	969	966	968	963	971	972	972	972	967	969	968	968	969	968	969	966	972	967	973	970	
JMIG	U005	890	890	890	890	890	833	801	800	803	801	803	801	801	801	801	799	801	801	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	890	
PKLG	U003	156	156	157	157	156	157	156	155	157	155	156	156	157	156	157	156	157	155	156	155	156	156	154	156	155	208	275	279	279	278	273	277	278	277	278	277	278	268	275	277	277	252	181	147	148	150	150	151
PKLG	U004	159	159	161	158	158	158	155	155	158	158	158	161	158	159	157	158	158	155	157	158	156	160	158	158	157	158	226	259	278	279	277	269	270	277	278	277	276	277	276	278	232	151	159	155	159	158	158	
TBIN	U001	598	599	594	599	545	530	528	530	530	527	503	500	499	499	500	401	401	449	450	450	451	450	449	450	449	448	449	490	501	547	549	549	550	549	550	549	551	604	691	683	647	617	619	619	600	599	566	
TBIN	U002	601	604	604	603	558	534	532	533	533	531	503	503	504	503	502	397	403	450	450	451	451	452	452	451	451	453	499	501	553	552	552	552	552	552	552	552	551	605	693	688	650	620	622	623	603	603	571	
TBIN	U003	607	605	604	604	580	534	533	532	533	531	499	502	502	502	501	394	402	447	449	449	447	451	448	448	448	449	448	448	496	499	547	548	546	549	548	549	550	550	604	693	687	651	621	624	622	605	602	567
TBIN	U004	980	981	983	982	904	843	801	803	804	803	800	805	802	803	800	802	799	804	886	976	984	981	983	983	981	980	981	980	980	982	984	983	982	983	983	983	984	983	980	985	981	982	984	984	983	983	984	
Total ST-Coal		9487	9493	9490	9478	8946	8525	8394	8393	8211	8193	8107	8105	8106	8114	8006	7353	7321	7680	8109	8327	8556	8904	8895	9077	9099	9093	9077	9265	9499	9545	9692	9691	9681	9629	9643	9466	9357	9428	9700	10137	10118	9946	9708	9680	9675	9619	9627	9522
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	
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	
CBPS	BLK2	356	359	367	357	364	367	370	362	362	355	366	367	362	362	353	366	368	368	361	361	364	365	366	365	366	365	361	359	366	360	370	367	371	366	361	372	364	364	368	365	362	364	370	356	359	367	362	364
GLGR	GT02	94	94	95	94	94	95	94	95	94	95	94	93	94	94	94	94	94	94	95	95	94	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
GLGR	ST1C	41	41	41	41	40	40	40	40	40	40	40	40	40	41	40	41	41	41	40	40	41	46	47	47	47	47	47	46	47	47	48	47	47	47	47	47	48	47	47	46	46	44	45	45	46	46	45	
KLPP	GT13	115	119	122	114	118	66	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	64	65	66	64	64	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	506	514	529	505	514	521	523	514	520	506	519	517	514	519	505	518	524	525	511	515	521	521	520	521	521	516	515	515	515	524	521	521	526	521	515	524	520	522	518	516	514	520	521	510	510	521	518	517
NPRI	BLK2	487	502	533	488	496	524	526	505	523	491	523	503	503	522	488	517	524	525	515	506	526	525	524	525	512	518	518	503	520	526	524	524	527	523	515	526	523	525	506	502	499	518	526	505	499	524	522	519
PCGP	PGRG	584	598	600	582	598	600	600	600	600	586	600	598	595	600	582	600	600	600	600	597	600	600	600	600	600	595	600	594	600	600	600	600	600	600	600	600	600	600	600	600	593	600	600	592	600	600	600	
PGLA	GT11	154	158	159	158	191	191	190	188	190	184	171	170	169	171	165	217	217	219	215	216	217	216	215	216	214	214	214	214	215	216	214	218	215	213	219	217	216	215	215	212	216	217	214	213	217	216	216	
PGLA	GT12	0	0	14	139	195	195	195	191	193	189	175	173	172	174	169	222	222	223	218	219	221	220	221	220	219	217	219	217	221	219	219	224	219	217	224	220	220	218	218	218	220	222	218	218	221	221	220	
PGLA	ST10	86	87	84	81	208	216	219	217	219	215	204	204	204	202	238	237	239	238	238	240	238	241	243	240	241	238	243	241	245	243	244	243	242	243	241	241	240	239	239	240	241	238	240	241	238	240		
PLPS	GT11	111	112	126	128	130	128	128	128	128	129	128	129	129	129	128	129	129	129	128	128	128	128	128	128	128	128	129	129	128	128	129	129	128	122	128	130	131	129	129	127	130	126	127	126	126	127		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	90	143	143	143	143	143	143	107	0		
PLPS	GT13	107	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	140	140	138	139	137	139	135	109	0	0	
PLPS	ST18	130	131	57	57	56	58	58	57	57	58																																						

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	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	HY02	62	62	62	62	63	63	63	63	63	63	62	62	62	125	63	124	124	124	125	125	125	125	125	125	125	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	18	35	35	35	35	35	35	35	35	35	35	35	
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	37	37	37	36	36	37	37	37	37	37	
KNRG	HY03	21	22	23	21	22	22	23	22	23	21	23	22	22	21	22	23	37	36	36	36	35	35	35	35	35	
KNYR	HY01	96	96	61	57	55	97	97	97	97	97	97	97	96	97	97	97	97	97	97	97	97	97	97	97	97	
KNYR	HY02	97	97	61	58	55	99	100	99	99	97	98	98	98	99	96	99	99	100	99	99	99	100	99	98	95	
KNYR	HY03	96	96	61	56	94	98	98	98	98	97	97	97	98	98	95	98	98	98	98	98	98	98	97	97	97	
KNYR	HY04	97	97	61	57	95	99	99	99	99	97	98	98	99	99	96	99	99	99	98	98	99	99	99	95	98	
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	20	20	20	20	20	20	20	
LPIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	19	19	19	19	19	19	
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	21	21	-1	-1	-1	-1	-1	-1	19	-1	-1	-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	21	21	21	21	21	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	30	31	31	31	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	30	30	30	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	0	
TMGR	HY01	40	42	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	80	80	80	-1	
TMGR	HY02	42	44	87	42	44	44	63	44	44	42	45	45	44	45	41	46	53	86	43	47	70	66	85	48	57	
TMGR	HY03	30	32	32	29	31	32	35	35	35	32	35	35	35	35	32	35	40	43	64	62	80	44	41	41	54	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	82	82	82	82	81	82	82	32	32	82	-1	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	97	96	97	95	89	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	90	-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	
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	
Total Hydro		694	702	562	517	593	667	692	659	660	648	658	656	657	679	641	723	669	881	917	957	1006	1011	1115	1119	1110	911
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	5	5	11	16	19	23	12	25	24	29	29	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	15	20	24	28	31	32	32	31	32	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	16	20	24	28	31	27	23	32	26	32	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	13	21	28	33	37	40	35	17	30	49	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	17	24	30	29	40	41	41	34	46	40	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	8	3	4	5	11	13	5	5	31	30	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	9	23	30	36	40	44	48	46	11	50	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	8	23	29	34	38	39	28	35	40	28	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	14	20	27	32	35	29	31	46	43	46	42	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	16	20	25	25	19	18	26	20	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	36	11	10	8	9	8	13	27	51	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	21	31	37	43	49	51	52	52	52	
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	12	19	27	32	33	36	32	30	41	26	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	3	3	7	8	7	5	11	25	14	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	12	19	12	8	21	30	30	25	12	16	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	2	32	104	167	273	310	374	433	432	413	401	460	
PCUF	CUFG	27	27	28	27	28	28	28	28	28	28	27	28	28	28	28	28	28	28	28	28	27	27	27	27	28	28

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	
PCUF	CUFK	27	25	26	26	26	26	26	27	25	26	27	26	28	25	27	26	27	26	26	25	27	26	25	26	25	24	25	24	25	27	25	27	27	26	26	25	27	23	27	27	25	24	26	25	24	26	26	24
Total Co-Gen		54	52	54	53	54	54	54	55	53	54	54	54	56	54	55	54	56	53	53	52	54	53	52	53	53	52	53	52	54	52	55	55	55	54	54	53	55	52	55	55	54	52	55	54	52	55	53	
Total Gen		15074	14840	14453	14308	14045	13684	13495	13385	13228	13111	13079	13039	12976	13047	12779	12556	12563	13205	13732	14019	14397	14808	14918	15094	15074	14917	14913	15097	15378	15634	15726	15728	15656	15632	15392	15155	14992	14995	15500	16281	16258	16145	15955	15780	15557	15367	15206	14989
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		
TIE-HVDC		0	0	0	0	0	0	0	0	0	0	30	31	30	30	30	30	30	31	29	30	30	29	30	30	30	30	30	30	30	29	30	30	30	29	29	30	30	30	31	30	30	31	30	30	31	31	30	
TIE-PLTG		-3	-55	-108	19	-7	-49	-60	5	0	13	-31	0	17	-14	59	-23	-58	-25	5	-64	-46	16	-41	15	33	3	-27	-106	4	37	36	42	22	3	61	-24	6	-2	27	-14	45	6	-20	-20	6	-78	-3	25
Interconnection		-3	-55	-108	19	-7	-49	-60	5	0	13	-2	31	48	16	89	7	-28	6	36	-35	-16	46	-12	45	62	33	3	-76	33	66	66	72	52	32	90	6	36	28	56	16	75	36	11	10	36	-47	27	56
System Total		15081	14899	14565	14293	14055	13736	13558	13383	13231	13101	13084	13011	12931	13034	12693	12552	12595	13202	13699	14057	14416	14765	14933	15052	15015	14888	14914	15177	15349	15571	15663	15659	15607	15603	15305	15152	14959	14970	15447	16268	16186	16112	15947	15773	15524	15418	15183	14937
SRev ST-Coal		531	526	522	532	863	1002	1032	1033	1030	1034	1033	1033	1034	1036	1033	1036	1035	1035	925	827	757	557	562	534	508	515	529	465	442	412	411	414	384	438	422	544	549	525	510	209	228	374	428	438	439	444	432	437
SRev CCGT-Gas		511	757	566	733	457	487	499	423	397	485	441	477	478	435	560	168	149	138	182	189	155	155	138	130	151	161	153	188	155	139	131	131	115	136	171	194	129	264	238	165	186	140	122	185	232	195	253	294
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		612	612	699	548	548	699	699	699	699	699	699	699	699	548	699	699	699	612	612	525	525	525	374	338	338	525	525	525	525	338	338	187	338	151	277	651	651	651	464	277	126	277	277	277	277	551	638	638
Hydro		315	307	360	556	481	256	231	240	239	251	241	243	242	371	258	176	229	145	149	196	147	166	213	245	254	265	311	206	218	247	296	508	355	477	475	82	220	259	406	543	674	508	331	414	508	264	288	214
S.Reserve Total		1969	2202	2147	2369	2349	2444	2461	2395	2365	2469	2414	2452	2453	2390	2550	2079	2112	1930	1868	1737	1584	1403	1287	1247	1251	1466	1518	1384	1340	1136	1176	1240	1192	1202	1345	1471	1549	1699	1618	1194	1214	1299	1158	1314	1456	1454	1611	1583