

Daily System Generation Summary on Saturday

Saturday, February 19, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,438 MW
Distillate	0 MW
Total TNB	2,438 MW
Total IPP	16,880 MW
Total Co-Gen	0 MW
Total System	22,877 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,243	4.23 %
Gas	52,733	14.63 %
Total TNB	67,976	18.87 %
ST-Coal	206,508	57.31 %
LSS	4,561	1.27 %
Gas	80,058	22.22 %
Total IPP	291,127	80.80 %
Co-Gen	1,219	0.34 %
Total Co-Gen	1,219	0.34 %
Total Generation	360,322	100.00 %
PLTG	692	0.19 %
HVDC	-696	-0.19 %
Interconnection	-4	0.00 %
Net Energy	360,326	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	17,874 MW
TNB Generation	4,118 MW
IPP Generation	12,777 MW
Spinning Reserve	927 MW
Maximum Demand	16,955 MW
Net Energy	360,326 MWH
Load Factor	88.55 %

Fuel Cost

Total Cost:	85,089,665.47 RM
Cost per Unit	23.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	155
Hydro	358
Syncon	587
Thermal	576
Total	1,676

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	56
SRDG	1
TJGS	190
Total TNB	247
CBPS	54
EMPP	227
NPRI	81
PCGP	87
PGLA	50
SPGP	104
Total IPP	602
Total Gas	850
Total Gas Required	850

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	15689	15091	14464	14048	13627	13409	13267	13255	13002	14045	14753	15049	14954	14882	15495	15830	15955	15930	15544	15570	16955	16860	16369	16031

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 2, 2022 3:44:27 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	605	504	504	509	507	503	504	452	453	459	428	404	460	455	454	453	506	501	502	502	541	549	551	554	501	452	452	503	529	555	557	558	554	554	605	605	606	607	606	695	695	694	696	696	697	692	692	667
JMAH	U002	605	507	508	506	504	504	505	454	453	456	434	404	449	454	454	509	504	506	506	545	554	555	554	503	454	453	504	531	555	558	558	554	554	603	604	608	610	606	696	695	696	698	695	693	694	696	682	
JMHE	U001	973	975	946	952	950	954	903	898	901	848	852	846	853	851	854	819	818	819	818	818	851	900	900	899	899	903	901	923	935	967	979	983	980	981	978	979	985	980	980	980	981	980	979	984	977	976	979	978
JMHE	U002	973	982	953	954	950	953	901	903	899	849	854	847	848	850	850	820	819	819	815	819	866	899	900	902	901	902	898	943	946	981	980	982	979	981	981	977	982	978	976	979	983	982	977	983	980	979	980	980
JMJG	U001	512	488	499	497	499	502	497	497	497	497	501	497	498	499	499	499	497	497	542	595	596	598	596	615	618	619	620	616	618	616	618	618	618	656	655	656	660	619	618	615	647	662	673	627	601	601	596	597
JMJG	U002	507	508	508	513	509	508	507	513	507	508	508	518	509	508	508	508	513	514	563	598	596	599	600	618	621	618	623	615	616	623	618	618	618	655	656	658	657	610	618	620	649	667	670	621	590	595	598	598
JMJG	U004	944	944	947	945	945	936	899	900	871	857	856	856	857	855	855	855	823	825	858	898	898	898	860	854	855	856	854	854	854	855	857	857	857	857	854	851	849	848	848	848	851	848	848	851	852	851	848	848
JMJG	U005	969	969	952	951	947	921	900	896	848	850	852	848	849	848	848	848	819	820	899	898	897	900	900	971	968	972	969	972	970	970	970	965	968	974	970	972	967	960	969	969	972	969	974	973	966	970	969	969
PKLG	U003	251	155	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	U004	276	275	273	275	274	269	273	273	271	273	283	278	278	277	277	277	275	276	276	274	275	275	275	274	276	275	266	277	276	273	276	278	276	273	271	271	272	271	272	271	273	273	276	277	273	278	278	276
PKLG	U006	446	449	449	449	396	354	358	358	358	360	359	358	357	359	357	361	363	358	360	358	364	442	450	448	447	442	448	452	449	448	450	449	449	449	449	445	447	447	450	448	449	451	448	446	446	447	451	449
TBIN	U001	600	499	500	501	500	502	500	448	450	451	451	450	434	451	450	501	504	501	499	500	526	550	548	549	501	452	449	470	514	550	550	549	562	598	600	600	600	600	631	690	687	689	689	686	687	688	687	687
TBIN	U003	604	473	492	502	504	503	502	450	453	454	453	453	411	451	453	503	502	501	502	503	515	552	552	552	524	468	453	470	509	553	553	554	571	603	603	603	603	602	628	693	693	692	691	690	692	690	692	692
TBIN	U004	945	941	942	941	944	923	905	903	861	853	853	853	853	851	829	822	823	824	824	822	837	903	902	902	904	902	903	931	942	933	939	940	942	938	943	939	938	939	942	938	942	940	942	938	942	939	941	933
Total ST-Coal		9210	8669	8550	8495	8429	8332	8154	7945	7822	7715	7684	7612	7656	7709	7688	7720	7771	7759	7964	8091	8307	8619	8589	8692	8518	8315	8289	8530	8689	8879	8905	8909	8928	9073	9168	9160	9174	9071	9144	9442	9517	9543	9561	9467	9396	9400	9407	9356
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	363	366	357	360	359	362	362	366	362	358	362	365	365	358	361	335	362	349	362	367	355	359	355	360	360	360	361	360	359	357	358	361	354	354	356	362	364	362	365	365	362	354	363	353	364	360	359
EMPP	BLK1	742	607	376	375	375	376	376	375	375	375	370	197	199	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EMPP	BLK2	704	712	711	708	711	707	711	710	709	711	709	707	710	710	711	703	689	709	688	703	709	700	708	704	705	712	701	708	708	711	711	711	710	710	701	708	711	711	709	712	722	710	706	710	704	709	707	710
EMPP	BLK3	252	726	762	763	764	763	763	763	762	763	764	762	761	762	766	766	766	766	767	766	765	763	759	762	761	757	749	748	753	750	747	747	743	748	746	749	748	751	753	751	755	756	758	763	754	757	764	
GLGR	GT01	106	108	107	108	107	107	108	107	108	85	86	66	68	69	68	67	67	68	68	108	108	108	108	108	108	108	109	109	107	108	104	103	107	106	106	109	108	110	109	109	109	109	108	109	107	108	108	109
GLGR	GT02	107	108	107	107	107	107	107	105	85	85	67	67	68	68	69	68	69	68	67	68	108	108	108	108	108	107	108	107	106	106	103	102	104	105	105	106	106	107	106	106	107	107	106	107	106	107	107	
GLGR	ST1C	97	96	97	96	96	97	96	95	83	82	73	71	71	70	71	71	71	90	96	97	96	97	97	97	98	98	98	98	98	93	92	93	95	96	98	98	97	97	98	97	97	97	96	97	96	97		
NPRI	BLK2	522	530	526	521	526	526	528	527	527	527	520	521	527	527	527	521	513	526	511	518	526	518	526	520	523	525	519	524	522	520	523	520	520	524	517	521	521	521	521	523	526	527	520	527	515	528	524	526
PCGP	PGRG	595	607	603	592	599	599	603	604	602	603	596	597	603	604	603	590	583	601	582	590	601	591	600	592	601	602	593	600	601	603	601	601	607	601	588	596	602	601	598	603	620	602	594	605	590	602	597	600
PGLA	GT11	157	159	160	155	158	158	158	160	159	159	157	157	159	159	155	154	158	219	221	222	220	222	220	222	223	220	221	221	222	221	221	221	221	219	156	157	157	156	158	186	224	224	150	155	159	157	158	
PGLA	ST10	88	89	89	88	88	88	88	88	88	88	88	88	89	89	87	88	87	89	110	112	113	111	112	112	111	112	115	113	113	115	114	116	114	112	88	88	89	89	90	115	114	98	87	88	89	89		
SPGP	BLK1	725	724	724	725	725	725	725	725	725	725	724	724	725	725	724	725	725	723	724	726	724	726	723	724	723	725	726	723	725	724	724	726	726	721	721	723	725	726	726	724	725	724	723	724	726	726	723	
TJGS	GT1A	179	189	200	202	148	125	125	128	126	124	126	126	127	124	128	124	119	230	216	228	224	222	225	225	226	230	228	223	224	221	223	226	226	227	224	225	225	226	223	227	226	222	223	226	227	196	199	181
TJGS	GT1B	169	176	189	186	136	115	117	117	117	113	116	116	117	116	117	113	105	217	202	212	210	213	216	214	216	209	211	210	213	215	215																	

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	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	0	0	0	0	0
KNRG	HY01	21	21	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33	33	33
KNRG	HY02	24	25	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36
KNRG	HY03	21	22	35	35	36	36	36	36	36	36	36	37	22	21	22	22	23	22	22	22	23	35	35	35
KNYR	HY01	65	84	100	63	63	62	65	72	64	72	63	63	67	70	64	61	65	62	-1	-1	-1	-1	-1	-1
KNYR	HY02	99	59	100	60	-1	-1	-1	-1	-1	-1	-1	-1	57	66	102	58	56	66	100	101	96	97	97	60
KNYR	HY03	98	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	99	98	98	97	97
KNYR	HY04	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	98	98	98
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	17	18	19	19	19	19	19	17
LPIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	19	19	19	19	19	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
PGAU	HY01	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	81	81	81	81	21	21
PGAU	HY03	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	81	21
PGAU	HY04	21	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	20	21	21
SIHY	HY01	51	51	50	51	51	51	51	51	50	50	50	0	0	0	0	0	0	0	0	0	30	30	30	31
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30
SIHY	HY03	0	50	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	16	16	16	16
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16
TMGR	HY01	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	32	32	84	84
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	34	35	35	88
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	34	35	35	88
TMGR	HY04	47	61	85	40	42	40	42	53	42	46	42	41	43	42	41	39	42	39	41	84	42	43	40	83
UJLI	HY01	87	93	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89
UJLI	HY02	89	94	95	88	91	91	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	83	83	83	83
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	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		1001	799	765	542	438	415	328	346	327	338	325	323	352	260	274	239	221	230	281	228	309	242	257	341
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	4	6	8	13	20	15	22	23	27	27	25
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	6	1	0	4	7	9	17	25	19	17	32
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	24	24	20	24	32	32	32	32	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	7	7	13	25	22	30	32	42	46
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	12	16	17	13	10	8	11	23	20
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	11	13	18	50	26	49	40	42	37
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	15	19	16	28	28	30	30	30	30	28
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	2	5	5	12	24	17	18	27	47	31	22
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4	5	23	66	65	75	70	70	95	95
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	11	28	29	33	38	42	24	46	39	28	33
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	15	15	15	21	30	21	15	15
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	9	17	21	25	29	28	30	30	30	27
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	10	19	27	35	30	46	48	50	50	50	50
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	26	26	26	26	26	26	26	26	26	26	26	26
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	14	21	27	32	37	40	43	46	42	23
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	13	8	8	15	14	8	6	25	18
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	13	21	15	26	6	30	23	23	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	0	0	33	35	54	93	183	297	359	393	459	507	511	609	612	554	579	631	591	565	491	461	408	296	198	129	55	33	0	0	0	0	0	0	0	0	0
PCUF	CUFG	26	26	27	26	26	26	26	26	26	26	25	26	26	26	27	28	27	26	24	25	24	24	24	24	25	25	25	24	24	24	25	25	25	24	24	26	26	26	26	26	26	26	26	25	25	25	25		
PCUF	CUFK	26	25	24	24	25	26	27	24	25	26	25	25	26	25	25	26	28	26	25	25	25	26	26	27	25	26	25	22	26	24	26	23	25	26	26	25	25	25	25	26	25	26	27	25	23	28	27		
Total Co-Gen		52	51	51	50	51	52	53	50	51	52	50	51	51	52	52	53	53	54	50	50	49	49	50	50	52	50	51	50	47	50	48	50	48	50	51	50	49	51	51	51	52	51	52	53	51	48	53	52	
Total Gen		15716	15370	15051	14739	14462	14269	14019	13822	13622	13522	13414	13335	13259	13220	13251	13012	12998	13516	14072	14343	14728	14957	15049	15258	15027	14912	14867	15146	15461	15746	15849	15875	15889	15990	15964	15774	15617	15424	15629	16370	16947	16973	16913	16586	16369	16237	16037	15845	
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		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-28	-29	-29	-28	-30	-30	-30	-30	-30	-30	-28	-28	-28	-29	-28	-29	-28	-29	-30	-29	-29	-29	-28	-31	-31	-28	-30	-27	-28	-28		
TIE-PLTG		56	-27	-11	31	26	18	0	-2	23	23	34	66	21	36	26	70	26	9	55	25	4	-19	30	69	103	40	16	-37	-6	-29	47	-3	-37	-27	62	84	103	64	88	65	20	53	83	0	29	27	33	20	
Interconnection		27	-56	-40	2	-2	-11	-29	-31	-5	-6	5	37	-8	7	-4	40	-4	-20	27	-5	-25	-47	0	38	73	10	-15	-68	-34	-57	19	-32	-66	-56	34	55	73	36	59	36	-8	22	53	-28	0	-1	6	-8	
System Total		15689	15426	15091	14737	14464	14280	14048	13853	13627	13528	13409	13298	13267	13213	13255	12972	13002	13536	14045	14348	14753	15004	15049	15220	14954	14902	14882	15214	15495	15803	15830	15907	15955	16046	15930	15719	15544	15388	15570	16334	16955	16951	16860	16614	16369	16238	16031	15853	
SRev ST-Coal		525	606	649	577	643	740	909	818	891	910	899	908	911	911	937	989	990	944	985	897	927	838	867	706	705	705	718	595	574	517	496	490	496	425	432	441	432	522	509	260	192	166	148	242	262	263	254	306	
SRev CCGT-Gas		603	681	510	544	654	726	710	714	773	780	843	846	822	821	819	860	926	443	230	147	119	167	124	151	128	122	147	126	132	130	137	142	126	131	178	235	215	291	300	204	169	122	152	212	254	418	425	574	
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		
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		
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	37	37	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		
Syncon		327	453	554	741	691	842	1029	1029	1029	1029	1029	1029	842	1029	878	1029	1029	1029	928	1029	1029	1029	1029	691	878	878	878	878	691	603	401	401	401	401	313	313	500	588	401	0	0	0	0	0	0	126	126	126	
Hydro		832	646	229	265	339	211	111	93	112	101	114	116	200	105	242	126	144	135	185	137	56	147	132	386	262	262	254	176	229	276	356	312	254	269	516	527	430	292	489	966	566	686	737	826	929	766	848	845	
S.Reserve Total		2287	2386	1942	2127	2327	2519	2759	2654	2805	2820	2885	2899	2775	2866	2876	3004	3089	2551	2328	2210	2131	2181	2152	1934	1973	1967	1997	1775	1626	1526	1390	1345	1277	1226	1439	1516	1577	1693	1699	1430	927	1011	1074	1280	1445	1573	1653	1851	