

Daily System Generation Summary on Monday

Monday, December 20, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,533 MW
Distillate	0 MW
Total TNB	2,533 MW
Total IPP	16,291 MW
Total Co-Gen	0 MW
Total System	21,667 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,398	6.46 %
Gas	35,860	10.83 %
Total TNB	57,258	17.29 %
ST-Coal	170,408	51.47 %
LSS	3,369	1.02 %
Gas	99,686	30.11 %
Total IPP	273,463	82.60 %
Co-Gen	1,237	0.37 %
Total Co-Gen	1,237	0.37 %
Total Generation	331,958	100.27 %
PLTG	164	0.05 %
HVDC	724	0.22 %
Interconnection	888	0.27 %
Net Energy	331,070	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:	16:30:00 Hour
Total Set On Bus	17,736 MW
TNB Generation	2,983 MW
IPP Generation	13,120 MW
Spinning Reserve	1,581 MW
Maximum Demand	16,107 MW
Net Energy	331,070 MWH
Load Factor	85.64 %

Fuel Cost

Total Cost:	67,212,378.49 RM
Cost per Unit	20.25 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	201
Hydro	597
Syncon	464
Thermal	583
Total	1,845

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Cloudy	24

Gas Usage

Station	(mmscfd)
GLGR	47
TJGS	96
Total TNB	143
CBPS	49
NPRI	140
PGLA	54
Total IPP	243
Total Gas	386
Total Gas Required	386

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	12434	11761	11435	11128	10939	10798	10991	11342	12087	13649	14407	14909	15038	14933	15454	15845	16096	15852	14892	14997	15778	15514	14998	14679

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:50:41 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

Daily MW Generation on Monday

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	214	214	214	214	213	214	213	214	214	214	215	215	268	361	355	356	355	370	406	407	406	457	453	403	354	437	508	505	505	503	532	555	556	501	455	506	580	623	554	555	519	505	505	452	454	455		
JMAH	U002	216	214	214	213	214	215	214	213	212	215	212	214	215	213	258	361	353	355	355	361	405	405	405	455	456	405	355	440	506	505	505	530	556	557	453	456	506	592	612	547	556	545	504	503	457	453	454	
JMHE	U001	802	810	800	799	801	801	802	800	800	800	802	801	803	799	793	805	797	894	946	962	973	972	972	974	971	950	956	945	953	961	971	966	971	970	969	965	973	971	969	968	970	969	970	970	966	972	973	967
JMHE	U002	802	799	799	797	808	800	802	800	799	799	799	800	800	799	794	801	798	892	971	978	981	975	977	979	976	951	955	944	951	971	980	977	980	977	980	975	979	981	972	976	976	980	980	978	974	979	977	977
JMJG	U001	548	544	545	543	545	541	547	549	548	545	545	545	540	500	497	497	497	561	647	667	671	672	672	672	666	662	673	671	666	670	672	666	672	672	668	661	570	500	512	557	642	639	666	579	544	547	545	506
JMJG	U002	520	580	675	592	513	445	422	422	418	424	418	415	419	420	422	500	500	500	641	664	672	666	667	667	671	671	671	666	662	673	671	668	669	668	669	657	583	500	511	534	590	586	574	543	553	546	548	500
JMJG	U003	411	396	365	313	316	167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	U004	804	803	803	803	804	804	801	801	804	803	803	804	804	804	804	804	804	837	896	953	975	979	975	977	976	949	949	945	950	982	978	977	977	977	976	977	978	974	967	969	971	969	968	970	972	970	970	
JMJG	U005	796	800	801	801	799	798	801	800	800	799	801	804	798	800	799	801	890	890	891	775	807	900	887	890	889	892	889	891	892	892	891	891	887	886	887	881	894	889	890	889	892	891	889	890	889	891	892	
PKLG	U003	155	155	154	155	153	155	155	155	154	156	157	155	155	155	155	155	154	154	154	153	154	155	154	153	155	154	154	154	154	155	155	154	153	154	153	154	154	154	153	208	207	205	152	155	154	154	154	
PKLG	U006	267	269	268	267	267	268	270	269	267	267	268	270	269	269	267	270	268	267	269	270	269	268	271	267	270	267	269	267	269	267	269	270	270	269	267	269	269	267	270	276	351	402	390	341	269	269	269	268
TBIN	U001	213	215	215	215	215	214	213	215	213	216	213	214	214	213	214	242	303	303	308	352	406	403	451	431	430	431	429	431	500	501	500	504	551	550	446	450	450	545	564	553	500	501	500	498	450	451	450	
TBIN	U002	212	213	213	213	212	214	213	213	212	214	213	214	215	213	212	212	237	305	306	303	353	402	402	453	444	434	434	433	433	454	486	504	503	554	552	446	455	453	504	564	573	506	501	502	502	455	453	453
TBIN	U003	212	213	212	211	213	212	212	213	212	212	215	213	212	212	232	306	301	306	328	390	404	451	430	432	433	431	431	502	500	500	500	547	550	451	453	452	511	565	548	499	499	499	499	500	450	452	453	
Total ST-Coal		6172	6225	6278	6136	6073	5848	5666	5663	5652	5662	5661	5662	5658	5616	5695	5991	6039	6620	7034	7187	7313	7503	7609	7844	7787	7598	7525	7651	7805	8036	8084	8082	8154	8337	8333	7842	7656	7612	7983	8249	8370	8262	8210	7930	7829	7592	7590	7499
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	223	223	219	270	226	239	220	227	219	214	217	220	253	220	213	218	255	337	296	361	354	358	357	362	340	357	357	359	362	354	364	356	360	355	354	364	359	351	357	368	354	355	348	353	346	356	355	354
EMPP	BLK1	713	709	707	709	709	712	711	711	706	695	705	711	710	709	702	711	709	703	711	709	710	709	709	710	690	709	711	712	719	710	715	710	719	710	711	713	745	740	707	720	703	708	700	709	698	710	708	706
EMPP	BLK2	758	761	752	764	760	765	766	765	756	746	753	766	764	763	750	762	763	753	751	759	758	757	758	731	755	753	755	754	755	754	752	750	749	752	752	747	747	743	745	753	743	757	739	754	735	760	756	744
EMPP	BLK3	758	758	760	758	757	758	759	758	757	758	759	760	759	758	760	758	758	375	374	374	374	368	371	503	522	574	674	681	672	554	729	633	723	741	741	742	748	748	746	749	751	753	754	753	756	756	758	
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	26	36	51	69	86	103	103	102	103	103	102	104	103	104	103	103	102	104	104	102	103	104	105	103	104	103	103	102	104	103	103	103	103	103	103
GLGR	GT02	96	95	95	95	95	95	95	94	94	94	94	94	95	95	95	95	94	95	95	94	103	103	103	103	103	103	103	103	103	102	102	103	103	103	103	102	103	103	103	103	103	103	103	103	103	103	103	
GLGR	ST1C	40	40	40	40	40	40	40	40	40	40	40	40	41	40	40	40	40	42	37	39	93	93	93	94	94	93	94	94	94	94	93	94	94	94	94	94	94	94	94	94	94	94	93	93	94	94	93	
NPRI	BLK1	395	329	323	332	328	334	329	328	323	317	320	329	331	329	319	331	340	505	510	516	515	515	515	515	494	514	514	521	522	515	522	515	522	515	513	517	515	510	506	527	505	515	502	511	500	516	512	510
NPRI	BLK2	517	319	313	324	319	325	320	318	314	307	313	319	321	319	310	321	320	506	514	518	519	518	519	519	500	519	519	526	527	519	526	519	528	520	518	523	520	515	512	528	511	519	507	516	506	520	516	514
PCGP	PGRG	598	451	261	265	261	268	262	261	262	260	262	261	262	371	487	263	552	588	597	602	603	604	604	603	578	604	600	610	613	602	611	602	617	603	601	610	604	595	594	617	591	600	587	599	584	604	601	595
PGLA	GT12	155	157	154	158	157	157	157	156	154	151	154	157	156	156	153	157	204	220	223	223	222	223	221	215	221	215	221	222	223	222	223	221	222	222	221	224	223	221	220	221	214	217	213	216	212	218	216	217
PGLA	ST10	90	90	89	91	89	90	90	91	91	89	91	91	90	90	90	90	94	112	113	114	113	116	115	115	114	115	115	116	117	117	116	116	116	116	116	116	116	116	114	115	115	111	112	110	112	111	112	111
SPGP	BLK1	719	719	616	516	597	600	599	599	598	599	450	453	451	718	719	719	718	718	715	718	719	717	717	716	717	718	719	707	706	707	706	707	706	707	708	711	709	709	706	708	708	704	712	713	713	714	713	720
TJGS	GT1A	128	128	130	126	126	129	127	129	125	125	126	128	128	129	127	129	127	202	227	229	228	224	225	227																								

Daily MW Generation on Monday

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	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	35	36	36	35	35	35	35	23	
KNRG	HY03	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	34	34	35	34	34	34	21	21	
KNYR	HY01	58	60	56	63	58	59	60	60	59	57	58	59	59	59	61	55	55	60	60	62	62	62	93	58	98	
KNYR	HY02	59	60	57	61	59	60	60	60	59	57	58	59	60	60	62	56	56	61	60	62	62	96	59	99	99	
KNYR	HY03	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	53	47	47	52	52	53	53	53	95	50	51	52	99	
KNYR	HY04	59	60	57	63	60	64	75	88	60	58	60	84	92	65	59	60	73	56	56	89	62	94	95	63	59	
LPIA	HY01	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
LPIA	HY02	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
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	19	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	159	159	159	158	158	158	158	0	
PGAU	HY03	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
PGAU	HY04	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	156	161	158	158	159	158	159	157	22	
SIHY	HY01	48	48	47	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	31	31	0	0	
SIHY	HY02	50	50	50	50	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	0	
SIHY	HY03	50	50	50	50	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	0	
SYPS	HY01	17	17	17	0	0	0	0	0	0	0	0	0	0	17	17	0	0	0	0	0	17	17	25	25	17	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	17	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	17	17	0	0	0	0	0	17	17	25	25	17	0	
SYPS	HY04	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	17	17	0	
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	33	34	-1	
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	85	85	84	85	85	84	35	64	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	80	80	80	80	80	32	60	32	
TMGR	HY04	42	42	41	43	41	42	59	67	42	39	40	67	75	46	40	43	46	38	40	69	43	70	71	41	38	
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	-1	
UJLI	HY02	92	94	89	121	93	121	160	94	92	87	89	96	93	98	86	96	98	87	90	128	95	110	122	96	82	
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	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Total Hydro		821	767	750	768	581	636	685	639	582	568	564	625	638	587	581	578	654	693	698	779	853	931	946	856	939	840
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	3	6	9	14	9	18	21	22	25	25	25	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	16	14	23	26	28	31	24	27	27	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	20	22	25	24	21	32	32	32	32	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	20	25	29	35	36	41	43	37	39	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	12	15	19	21	24	26	28	27	22	23	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	19	26	31	37	43	46	28	29	42	49	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	18	22	26	29	30	27	26	33	33	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	12	17	24	37	34	42	39	25	36	49	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	16	23	29	34	40	24	44	43	45	38	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	11	15	19	16	28	27	29	30	28	29	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	16	23	30	36	40	41	48	49	50	50	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	17	21	24	31	36	40	43	25	43	42	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	8	14	18	21	23	26	28	29	9	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	7	9	30	30	30	28	30	30	25	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	6	60	118	195	291	339	391	441	448	462	438	476	
PCUF	CUFG	28	27	28	28	28	28	28	27	28	30	28	28	28	29	27	30	28	28	29	27	28	28	28	29	29	
PCUF	CUFK	25	22	24	24	24	24	23	24	23	25	25	22	24	22	23	23	24	25	23	23	23	23	22	23	22	
Total Co-Gen		53	49	52	52	52	51	51	52	55	53	50	52	51	49	53	51	52	54	50	51	52	49	51	51	51	

Daily MW Generation on Monday

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 Gen		12518	12098	11815	11679	11444	11326	11152	11105	11000	10948	10835	10941	10987	11227	11360	11527	12090	13083	13667	14107	14429	14747	14910	15072	15076	14943	14949	15288	15496	15809	15808	16048	16069	16155	15927	15374	14960	14722	15130	15968	15869	15782	15545	15349	15077	15013	14746	14571	
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	29	29	31	29	31	31	31	31	31	29	29	29	31	31	29	29	30	30	30	31	31	31	32	29	29	31	31	31	29	29	31	29	29	31	29	29	30	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		54	76	25	9	-20	-3	-7	6	30	61	6	-6	-33	-43	-13	-59	-27	-19	-12	-57	-8	-56	-30	-45	7	-56	-13	19	11	20	-66	10	-58	19	46	46	39	48	104	76	61	36	0	42	49	3	37	21	
Interconnection		84	105	54	40	9	28	24	37	61	92	37	23	-4	-14	18	-28	3	11	18	-27	22	-25	1	-13	38	-27	16	51	42	51	-37	39	-27	48	75	78	68	78	133	106	91	66	31	72	79	33	67	51	
System Total		12434	11993	11761	11639	11435	11298	11128	11068	10939	10856	10798	10918	10991	11241	11342	11555	12087	13072	13649	14134	14407	14772	14909	15085	15038	14970	14933	15237	15454	15758	15845	16009	16096	16107	15852	15296	14892	14644	14997	15862	15778	15716	15514	15277	14998	14980	14679	14520	
SRev ST-Coal		1031	906	918	968	965	1114	952	954	945	950	951	948	951	951	950	951	952	863	699	588	630	542	539	547	554	631	606	644	631	554	539	559	543	552	555	580	649	637	657	661	636	629	542	624	618	613	612	655	
SRev CCGT-Gas		776	1195	1508	1531	1517	1464	1506	1503	1535	1575	1688	1651	1617	1279	1210	1457	1126	439	352	246	172	175	172	168	308	176	181	154	142	184	148	182	140	181	190	148	150	175	207	114	227	176	232	180	247	151	169	179	
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		640	741	741	741	741	590	741	741	741	741	741	741	741	741	590	741	640	640	640	640	489	489	489	489	489	489	489	489	401	464	464	338	464	464	464	464	590	678	590	590	338	426	426	426	426	426	552	488	
Hydro		619	572	589	521	558	654	454	500	557	571	575	514	501	552	709	561	586	697	692	561	638	560	545	635	552	651	652	541	575	477	378	462	306	384	560	659	555	579	641	433	780	714	828	810	894	819	714	644	
S.Reserve Total		3066	3414	3756	3761	3781	3822	3653	3698	3778	3837	3955	3854	3810	3523	3459	3710	3304	2639	2383	2035	1929	1766	1745	1839	1903	1947	1928	1828	1749	1679	1529	1541	1453	1581	1769	1851	1944	2069	2095	1798	1981	1945	2028	2040	2185	2009	2047	1966	