

Daily System Generation Summary on Monday

Monday, November 1, 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	14,065 MW
Total Co-Gen	0 MW
Total System	19,725 MW

Generation Mix

Type	MWh	Percentage
Hydro	26,615	7.22 %
Gas	52,877	14.34 %
Total TNB	79,492	21.56 %
ST-Coal	187,083	50.75 %
LSS	3,306	0.90 %
Distillate	1,932	0.52 %
Gas	94,112	25.53 %
Total IPP	286,433	77.69 %
Co-Gen	1,149	0.31 %
Total Co-Gen	1,149	0.31 %
Total Generation	367,074	99.57 %
PLTG	-897	-0.24 %
HVDC	-701	-0.19 %
Interconnection	-1,598	-0.43 %
Net Energy	368,672	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:	16:00:00 Hour
Total Set On Bus	18,370 MW
TNB Generation	4,349 MW
IPP Generation	13,085 MW
Spinning Reserve	889 MW
Maximum Demand	17,860 MW
Net Energy	368,672 MWH
Load Factor	86.01 %

Fuel Cost

Total Cost:	75,116,510.81 RM
Cost per Unit	20.42 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	581
Hydro	473
Syncon	194
Thermal	149
Total	1,397

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	25

Gas Usage

Station	(mmcsfd)
GLGR	52
SRDG	23
TJGS	94
Total TNB	169
CBPS	49
KLPP	77
NPRI	136
PGLA	105
PLPS	74
SGB3	43
SGRI	84
SKSP	27
Total IPP	596
Total Gas	765
Total Gas Required	781

Alternate Fuel Usage

Station	(mmcsfd)
KLPP	3
PLPS	4
SGB3	4
SGRI	6
Total	17

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	14536	13805	13357	12973	12630	12482	12633	12773	13696	15433	16284	16947	16945	16883	17459	17821	17860	17179	16158	16480	16690	16294	15966	15344

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 6:37:41 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	U002	705	700	701	704	704	708	709	702	654	657	691	654	658	697	694	694	693	692	697	690	715	711	704	700	706	704	705	708	702	705	707	705	702	707	705	703	707	704	701	703	707	704	705	704	706	712				
JMHE	U001	970	902	902	849	848	851	852	852	843	849	853	849	850	850	853	851	938	969	977	979	979	1008	975	970	972	973	979	979	975	976	977	974	977	981	979	972	978	976	976	974	975	977	977	976	976	978	976			
JMHE	U002	983	900	898	847	852	847	852	850	848	849	850	850	853	850	851	852	850	954	982	981	981	984	975	980	977	980	981	981	984	980	982	983	981	985	985	984	977	980	981	982	980	976	981	983	980	983	981	980		
JMJG	U001	682	680	683	682	679	682	682	683	680	683	685	684	682	685	678	669	679	664	684	683	672	684	680	666	673	677	679	675	676	678	675	675	672	676	674	677	675	676	675	676	679	675	678	673	677	677	675	673		
JMJG	U002	676	676	684	678	678	677	682	675	678	681	679	678	682	677	679	662	681	677	677	678	678	680	681	675	679	675	674	679	689	668	682	666	676	672	674	682	660	681	665	678	672	667	671	678	671	679	673	671		
JMJG	U003	677	678	675	679	676	675	679	681	678	676	678	682	680	677	678	673	680	678	677	677	682	680	679	677	673	682	678	679	680	677	674	680	676	678	673	675	678	675	681	683	678	678	679	677	643	675	675	677		
JMJG	U005	892	889	889	890	894	887	892	888	842	854	846	853	850	852	849	854	851	849	892	894	891	894	890	888	894	892	894	892	895	890	888	892	889	890	890	892	889	890	892	891	889	890	889	892	888	889	892	892		
PKLG	U003	276	279	282	260	167	184	232	203	154	155	158	157	156	158	157	216	275	283	276	279	282	279	279	279	279	273	273	273	274	278	275	276	274	276	275	275	276	277	276	275	276	278	277	279	279	279	279	279		
PKLG	U004	276	272	276	254	168	203	226	201	157	153	157	155	154	155	154	242	280	281	276	277	275	276	276	277	276	269	273	271	278	275	275	277	272	271	273	270	268	268	272	273	273	271	273	272	272	276	276			
PKLG	U006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	63	60	85	84	85	85	75
TBIN	U001	700	699	701	697	667	687	689	662	646	600	541	499	468	469	528	559	679	687	687	693	698	698	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TBIN	U002	701	697	701	701	670	690	690	673	658	601	556	497	471	471	533	562	690	690	690	698	699	693	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TBIN	U003	700	699	697	701	672	690	691	680	650	601	545	501	471	473	534	561	693	687	690	699	696	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TBIN	U004	982	914	906	858	855	853	853	852	856	853	855	853	853	853	850	852	852	915	982	984	984	983	984	982	985	984	983	983	980	982	982	982	982	982	983	983	981	982	982	982	982	981	982	983	983	983	983	983	983	
Total ST-Coal		9220	8985	8995	8800	8530	8630	8728	8610	8388	8212	8058	7951	7828	7826	8039	8102	8658	8987	9186	9213	9206	8547	7163	7102	7107	7123	7108	7119	7132	7110	7114	7110	7110	7112	7109	7125	7083	7109	7104	7119	7127	7158	7172	7203	7156	7202	7203	7194		
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	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	285	271	214	256	308	223	224	213	207	223	217	219	222	226	218	220	225	329	371	364	367	373	372	373	368	369	369	366	360	369	366	368	368	367	366	373	373	379	379	372	379	365	365	371	375	367	363	361		
EMPP	BLK2	374	376	512	771	768	343	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	84	106	106	106	107	105	107	108	106	105	107	108	107	108	107	107	107	107	106	106	106	83	67	67	68	68	68			
GLGR	GT02	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	84	106	105	106	106	105	106	105	105	105	105	106	105	105	105	106	105	105	105	106	106	82	67	67	67	67	67			
GLGR	ST1C	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	87	97	97	97	97	97	98	98	98	98	98	98	98	98	98	98	98	98	97	97	86	71	72	72	71	71				
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	81	131	135	138	143	144	144	144	144	144	144	144	144	144	144	145	145	122	108	141	142	142	142	141	111	111	111	107	107			
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	151	152	159	160	161	161	161	162	161	161	161	163	162	163	133	117	160	145	150	144	145	89	111	0	0	0	0			
KLPP	GT15	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	0	0			
KLPP	ST17	69	69	69	70	69	69	69	69	69	69	69	69	70	70	70	70	70	63	116	144	135	140	214	218	218	217	217	217	217	216	216	217	217	217	218	203	200	217	212	212	212	212	193	177	179	134	134			
NPRI	BLK1	0	0	0	0	0	0	0	0	97	122	224	331	532	529	530	530	520	521	529	520	519	533	538	532	518	523	517	525	526	527	527	527	526	523	525	523	527	529	529	529	520	517	528	529	530	529	530			
NPRI	BLK2	522	524	321	329	335	352	346	323	316	335	328	332	340	351	336	333	366	523	533	524	508	532	533	531	517	526	518	523	522	524	521	523	523	524	521	521	524	524	525	528	529	300	301	300	533	533	533			
PCGP	PGRG	262	264	262	261	260	262	274	263	261	262	262	261	260	269	262	261	262	263	270	303	352	383	702	595	652	663	654	662	673	672	674	672	673	673	674	671	598	603	604	604	603	587	584	598	600	603	601	452		
PGLA	GT11	169	169	163	166	169	168	172	165	162	169	166	167	168	171	168	168	168	169	191	196	215	206	229	229	223	225	223	226	229	227	228	227	228	228	230	236	196	170	211	218	218	214	174	197	217	169	169	168		
PGLA	GT12	172	173	168	171	172	171	175	168	165	172	169	170	172	174	172	171	172	172	194	200	221	210	232	233	227	230	227	230	229	230	230	230	231	235	229	200	175	215	222	222	218	179	202	222	173	173	174			
PGLA	ST10	205	205	202	204	204	204	206	201	203	204	201	202	203																																					

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	
SGRI	ST24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SPGP	BLK1	725	726	711	359	362	478	359	361	360	360	361	359	361	361	360	362	499	600	721	722	723	723	628	695	724
SPGP	BLK2	382	381	336	430	434	513	530	582	680	678	729	728	726	726	723	728	720	727	724	725	723	725	629	716	719
TJGS	GT1A	127	124	122	127	125	123	122	125	109	126	125	124	129	127	127	127	128	165	228	225	223	225	223	232	223
TJGS	GT1B	117	114	117	117	115	117	121	117	103	118	115	118	123	116	119	117	116	156	219	217	216	225	223	223	215
TJGS	ST1C	164	164	164	161	161	161	161	158	161	158	158	158	155	159	159	159	159	181	238	245	245	242	254	254	252
Total CCGT-Gas		4257	4244	4040	4102	4167	3869	3446	3426	3568	3676	3802	3917	4144	4173	4132	4131	4294	4766	5219	5391	5816	6101	6776	6872	7264
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	0	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 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
BSIA	HY01	21	21	22	11	21	21	21	21	21	21	21	20	20	11	11	11	12	11	11	20	21	20	21	20	21
BSIA	HY02	22	0	0	0	0	0	0	0	0	0	0	0	11	11	0	0	0	0	11	11	22	22	22	22	22
BSIA	HY03	22	0	0	5	24	24	24	23	23	24	23	23	11	0	0	0	0	11	11	23	23	22	22	22	22
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY02	8	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	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	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	7
HTRG	HY02	124	123	123	63	63	123	123	123	123	63	63	63	63	123	57	63	63	123	124	123	123	123	123	123	123
KNRG	HY01	24	24	24	24	24	24	25	24	24	24	24	24	24	25	24	24	23	23	23	36	36	36	36	36	36
KNRG	HY02	23	23	22	22	23	23	24	22	22	23	22	23	23	23	22	23	23	24	23	23	37	37	37	37	37
KNRG	HY03	22	22	21	22	22	22	23	21	21	22	21	22	22	23	22	22	23	22	22	36	36	36	36	36	36
KNYR	HY01	96	97	97	97	97	97	97	97	96	97	97	97	98	97	59	56	57	97	97	97	96	97	97	97	97
KNYR	HY02	96	100	98	96	100	99	100	96	95	100	91	91	98	100	68	58	94	99	99	99	93	99	99	99	97
KNYR	HY03	90	0	0	0	0	0	0	55	0	0	0	0	0	0	55	58	93	93	93	97	97	97	97	97	97
KNYR	HY04	96	99	99	96	99	99	99	97	95	99	97	97	98	99	59	56	58	98	98	98	97	98	98	98	98
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	20	21	21	21	21	21	23	23	23	23	23
LPIA	HY02	17	17	17	17	17	17	17	17	17	17	17	17	17	17	20	20	20	20	20	20	22	23	23	23	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	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	150	150	80	21	21	80
PGAU	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	0
PGAU	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	0
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	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	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	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	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	0
SYPS	HY03	0	2	16	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	0
TMGR	HY01	80	78	41	43	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	49	42	81	80	80	80	80
TMGR	HY02	59	55	43	45	50	44	87	42	38	43	42	44	44	87	52	45	81	67	87	50	44	86	85	85	85
TMGR	HY03	81	81	30	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32	80	36	80	80	80	80
TMGR	HY04	81	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	81	81	81	81
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	179	183	183	86	92
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	187	185	83	89
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	5	5	5
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5

Daily MW Generation on Monday

[illegible]