

Daily System Generation Summary on Monday

Monday, March 28, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,938 MW
Distillate	0 MW
Total TNB	1,938 MW
Total IPP	17,930 MW
Total Co-Gen	0 MW
Total System	23,342 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,337	4.23 %
Gas	46,831	12.12 %
Total TNB	63,168	16.35 %
ST-Coal	217,519	56.31 %
ST-Oil	3,981	1.03 %
LSS	4,705	1.22 %
Distillate	2,125	0.55 %
Gas	93,552	24.22 %
Total IPP	321,882	83.33 %
Co-Gen	1,130	0.29 %
Total Co-Gen	1,130	0.29 %
Total Generation	386,180	99.98 %
PLTG	-558	-0.14 %
HVDC	463	0.12 %
Interconnection	-95	-0.02 %
Net Energy	386,275	100.00 %

Maximum Demand Record

Date: 3/29/2022	18,840 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	19,969 MW
TNB Generation	4,196 MW
IPP Generation	14,554 MW
Spinning Reserve	1,174 MW
Maximum Demand	18,837 MW
Net Energy	386,275 MWH
Load Factor	85.44 %

Fuel Cost

Total Cost:	97,649,055.00 RM
Cost per Unit	25.28 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	946
Hydro	437
Syncon	221
Thermal	141
Total	1,745

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	45
Total TNB	45
CBPS	48
EMPP	181
KLPP	6
NPRI	147
PCGP	63
PGLA	81
PLPS	4
SGB3	81
Total IPP	612
Total Gas	657
Total Gas Required	731

Alternate Fuel Usage

Station	(mmscfd)
PGLA	9
PGLA	9
SGB3	16
PKLG	40
Total	75

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	15203	14498	13920	13467	13070	12870	13053	13214	13887	15780	16658	17289	17353	17270	18065	18638	18800	18417	17107	16701	17909	17921	17367	17024

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 5, 2022 10:47:41 AM

(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	U001	695	696	695	696	695	695	695	696	690	655	607	605	655	705	702	707	707	706	708	706	706	707	707	707	706	705	704	705	707	704	705	704	704	707	705													
JMAH	U002	698	696	694	696	695	697	696	694	688	654	606	607	653	702	707	707	705	705	707	708	705	704	704	706	704	704	706	702	703	706	706	705	705	708	704	702	708	704	705	708	705	703	704	704	706			
JMHE	U002	976	942	939	901	901	845	852	851	852	849	848	851	852	852	847	857	850	948	970	979	979	982	981	981	978	975	979	981	982	980	977	982	981	981	979	978	984	984	980	976	979	979	979	979	978	975	977	981
JMJG	U001	678	676	675	676	643	589	598	546	545	547	545	548	547	592	596	544	579	643	671	675	674	676	682	678	679	676	676	679	678	678	677	676	673	680	662	667	668	666	669	671	668	667	668	668	662	664	669	
JMJG	U002	673	671	673	678	645	600	597	547	551	551	550	551	551	596	598	547	581	650	673	676	672	675	675	677	679	668	676	675	672	675	678	669	677	672	676	676	672	673	677	668	673	672	676	677	677	673	681	672
JMJG	U003	672	669	678	681	637	593	604	598	574	538	544	535	539	557	593	595	603	583	601	601	596	594	596	593	621	619	647	629	629	641	641	640	627	640	656	585	500	512	513	508	568	635	644	671	673	656	663	670
JMJG	U004	938	939	939	899	899	877	849	851	850	850	851	850	850	852	850	851	870	924	938	936	936	935	935	935	933	933	930	933	933	932	932	872	775	706	0	0	0	0	0	0	0	0	0	0	0	0	0	
JMJG	U005	972	937	937	898	902	849	849	850	849	848	850	848	849	848	852	853	856	955	980	976	976	977	977	977	975	973	972	976	976	976	976	973	975	976	977	973	974	974	973	977	977	974	972	973	974	975	977	976
PKLG	U003	234	234	233	232	232	231	231	228	232	232	260	268	270	273	276	281	277	279	278	274	276	276	274	271	268	232	231	234	233	235	234	236	235	235	235	235	234	234	232	232	230	232	234	235	234	254	274	
PKLG	U004	263	264	263	267	261	265	264	270	277	279	279	278	279	278	277	270	272	271	274	271	280	279	277	276	279	272	271	266	267	269	270	275	275	270	272	270	272	269	272	275	272	276	272	275	273	274	276	
PKLG	U006	448	445	449	449	449	449	450	445	449	449	450	445	448	450	448	445	449	446	449	446	446	449	446	447	445	445	445	446	447	450	448	446	449	447	450	446	446	449	454	449	449	448	450	446	449	450	450	450
TBIN	U001	687	690	689	690	690	686	690	689	688	689	689	690	688	689	689	689	689	688	689	690	689	687	689	689	689	691	689	689	687	691	690	689	689	692	689	687	690	689	686	690	687	690	689	687	688	689	689	
TBIN	U003	692	690	690	692	690	691	690	693	692	692	689	685	686	690	691	691	691	690	691	690	691	691	690	693	692	690	690	691	691	691	691	691	691	691	691	691	688	688	690	691	691	690	690	689	693	689	692	689
TBIN	U004	939	938	938	905	905	872	851	853	854	853	852	853	851	852	851	852	855	939	938	938	940	938	940	936	938	939	938	940	939	940	938	937	938	939	938	937	940	938	942	936	936	936	940	934	938	937	936	934
Total ST-Coal		9565	9487	9492	9360	9244	8939	8916	8811	8791	8686	8592	8606	8716	8933	8970	8883	8985	9326	9543	9574	9564	9569	9575	9565	9594	9561	9555	9544	9544	9563	9561	9499	9395	9337	8640	8562	8476	8484	8506	8474	8548	8605	8629	8642	8654	8620	8668	8691
PKLG	U001	145	145	145	145	145	145	144	144	145	145	145	144	145	145	145	145	145	145	168	222	221	221	221	220	221	202	147	147	147	147	147	147	147	147	147	147	147	188	186	186	186	186	186	186	185	185	185	185
Total ST-Oil		145	145	145	145	145	145	144	144	145	145	145	144	145	145	145	145	145	145	168	222	221	221	221	220	221	202	147	147	147	147	147	147	147	147	147	147	147	188	186	186	186	186	186	186	185	185	185	185
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	223	222	222	220	228	228	223	222	217	228	222	222	223	226	216	222	224	225	223	359	359	358	362	364	363	359	360	361	360	360	360	360	360	354	343	349	344	354	358	364	362	362	360	363	356	357	359	363
EMPP	BLK1	583	530	413	413	416	450	411	412	409	410	414	411	412	434	402	409	547	655	647	682	684	694	688	711	700	650	707	697	720	709	709	719	718	663	716	718	705	703	710	722	712	710	710	712	705	701	710	714
EMPP	BLK2	581	527	413	376	378	383	376	376	373	374	374	375	376	383	365	374	550	655	646	683	683	692	689	711	700	650	706	697	720	710	709	720	718	663	718	721	710	702	710	721	712	710	713	705	703	710	714	
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	39	74	103	101	103	104	103	103	104	103	100	102	102	103	103	103	103	103	104	103	104	103	104	103	66	68	67	68
GLGR	GT02	109	109	109	109	96	96	96	96	96	96	96	96	96	96	96	96	96	108	109	109	108	108	107	102	102	103	103	102	102	100	100	100	102	103	103	103	103	103	103	103	103	103	103	65	67	67	67	
GLGR	ST1C	48	48	48	47	41	41	41	41	41	41	41	41	41	40	41	44	47	48	47	47	48	47	48	87	95	94	94	95	94	94	91	93	95	94	94	94	94	95	95	94	94	94	93	78	73	73	71	
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	23	23	23	23	23	36	57	70	135	135	135	132	132	
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	23	37	46	67	67	66	66	66			
NPRI	BLK1	515	514	514	515	450	406	397	331	303	311	311	309	313	316	299	305	309	400	515	514	514	514	514	517	509	516	517	521	514	514	517	515	512	510	514	490	505	517	519	518	516	518	512	508	438	448	452	
NPRI	BLK2	518	520	519	518	455	408	399	332	304	310	309	308	313	316	339	344	349	400	517	518	518	519	519	520	512	519	521	526	518	518	526	526	517	515	517	491	508	520	530	523	520	521	517	511	439	449	454	
PCGP	PGRG	261	261	261	263	266	273	262	260	263	261	262	263	265	272	262	262	262	265	262	261	263	262	260	263	265	262	266	264	457	601	593	615	613	596	577	582	560	488	503	617	609	603	606	602	592	590	601	608
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	82	128	220	180	174	208	215	215	214	214	212	214	214	216	214	214	217	216	213	217	218	206	208	187	170	223	222	223	221	217	218	223	225	225	
PGLA	GT12	165	165	165	164	166	167	165	164	163	165	165	165	165	167	167	171	171	231	184	178	212	218	218	217	217	215	218	217	221	217	218	220	220	217	221	221	211	220	192	164	0	0	0	0	0	0	0	
PGLA</																																																	

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		
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	0	0	0	0	0	0	120	123	90	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	0	0	0	0	0	0	117	119	120	90	69	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	0	0	0	0	0	0	117	239	243	180	69	0	0	0	0	0	0	0	0	0	0			
BSIA	HY01	23	23	23	23	23	22	22	22	22	22	22	22	22	22	0	0	0	0	0	0	11	11	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	22	23	23	23	23	23	23	23	23		
BSIA	HY03	23	23	23	23	23	23	23	23	23	23	22	23	23	23	23	22	23	23	23	23	23	23	22	23	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23		
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY02	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	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
CEND	HY03	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	9	9	9	9	9	9	9	9	8	8	8	8	9	9	9	9	9	9	9	8	8	9	9	
CEND	HY04	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	7	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	8	8	7	8	8	8	
HTRG	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	-1	-1	-1	-1	-1	-1	-1	125	125	125	125	125	125	125	125	125	125	125	124	125	124			
HTRG	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	0	0	0	0	0	0	0	63	124	123	123	123	123	123	123	123	123	123	122	123	121			
HTRG	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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
KNRG	HY01	34	34	34	34	34	34	34	34	0	0	0	0	0	0	0	0	0	0	0	0	21	22	22	22	22	22	22	22	22	22	22	22	22	23	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
KNRG	HY02	36	36	36	36	36	36	36	36	12	0	0	0	0	0	0	0	0	0	0	0	22	22	23	23	22	23	23	23	23	23	23	23	23	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
KNRG	HY03	35	35	35	35	35	35	35	35	36	37	37	37	37	37	22	22	23	23	23	23	22	22	22	22	22	21	22	22	22	22	22	22	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
LPIA	HY01	19	19	19	19	19	17	17	17	17	17	17	17	17	17	17	17	15	15	14	14	14	15	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19		
LPIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	22	23	24	24	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
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	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
PGAU	HY03	21	21	21	21	21	21	21	22	21	21	21	22	21	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	153	22	20	22	22	153	153	153	153	153	146	83	21	21	
PGAU	HY04	21	21	21	21	22	21	21	21	21	21	21	21	21	21	21	22	22	22	21	22	22	21	22	22	22	22	22	21	21	22	22	22	22	22	152	22	19	22	22	151	152	152	151	151	149	82	21	21	
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	0	0	0	0	31	31	48	48	48	47	31	0	0	0	43	48	48	48	31	31	31	31	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	0	0	0	30	30	50	50	50	50	31	0	0	0	50	50	50	50	30	30	30	30	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	0	0	0	4	30	50	50	50	50	31	31	31	31	50	50	50	50	30	30	30	30	0		
SYPS	HY01	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	25	17	17	17	17	25	25	25	25	25	25	25	25	0	
SYPS	HY03	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	25	17	0	0	0	25	25	25	25	25	25	25	25	0	
SYPS	HY04	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	25	25	25	17	17	17	17	25	25	25	25	25	25	25	25	0	
TMGR	HY01	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	85	84	84	84	84	84	34	84	84	84	84	84	84	83	84	83	30	26	32	33	84	84	84	84	84	32	32	34	33
TMGR	HY02	45	45	45	47	48	77	44	45	45	45	51	45	45	68	45	45	47	51	48	46	45	46	45	57	46	45	46	45	87	45	89	89	59	41	42	38	44	90	89	89	89	72	79	45	46	63	90		
TMGR	HY03	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33	33	33	33	33	33	33	33	33	84	84	81	29	25	31	32	84	84	84	84	83	84	31	30	32	32	
TMGR	HY04	30	31	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	85	85	85	85	85																							

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	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KMLS	LSS1	0	0	0	0	0	0	0	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	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	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	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	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	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	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	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	16	22	20	22	21	21	22	22	23	22	22	22	21	22	21	19	19	20	21	20	18	18	22	20	19
PCUF	CUFK	24	26	26	27	25	26	27	25	26	26	25	27	26	24	26	26	27	25	25	25	25	26	25	25	25
Total Co-Gen		40	48	46	49	46	47	49	47	49	48	47	49	51	48	45	48	47	49	45	44	44	46	46	43	44
Total Gen		15252	14872	14537	14198	13945	13627	13486	13238	13107	13018	12922	12928	13058	13346	13242	13272	13895	15147	15823	16336	16694	17057	17324	17468	17340
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
TIE-HVDC		30	30	30	30	30	30	31	31	31	31	31	30	30	31	31	29	29	31	31	31	30	30	30	30	29
TIE-PLTG		19	35	9	-44	-5	-52	-12	30	6	-32	21	-10	-25	27	-3	-10	-22	-21	13	-16	6	-27	5	12	-42
Interconnection		49	65	39	-14	25	-22	19	60	37	-2	52	21	5	57	28	20	8	9	43	15	36	4	35	42	-13
System Total		15203	14807	14498	14212	13920	13649	13467	13178	13070	13020	12870	12907	13053	13289	13214	13252	13887	15138	15780	16321	16658	17053	17289	17426	17353
SRev ST-Coal		141	219	214	345	462	592	627	649	648	713	812	797	738	630	564	561	522	316	143	112	122	117	111	121	142
SRev ST-Oil		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	32	0	1	1	1	2	1	18
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
SRev CCGT-Gas		1872	1978	2215	2309	2446	2485	2571	2714	2770	2742	2749	2753	2736	2684	2765	2891	2777	1995	1758	1454	1289	1448	1311	1233	1314
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
SRev 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
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
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
Syncon		126	401	588	676	676	676	676	676	676	676	676	676	676	676	676	676	676	588	500	313	313	313	500	500	500
Hydro		645	487	401	344	341	316	349	347	365	336	330	335	335	313	349	349	346	341	346	348	364	549	538	523	441
S.Reserve Total		2815	3116	3449	3705	3956	4100	4254	4417	4490	4498	4598	4592	4516	4334	4385	4508	4352	3359	2954	2534	2275	2428	2274	2191	2399