

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,173 MW
Distillate	0 MW
Total TNB	2,173 MW
Total IPP	16,873 MW
Total Co-Gen	0 MW
Total System	22,120 MW

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	105
Total TNB	153
NPRI	87
PGLA	110
PLPS	47
Total IPP	244
Total Gas	397
Total Gas Required	397

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	16,634 MW
TNB Generation	2,830 MW
IPP Generation	12,603 MW
Spinning Reserve	1,185 MW
Maximum Demand	15,416 MW
Net Energy	330,084 MWH
Load Factor	89.22 %

Generation Mix

Type	MWh	Percentage
Hydro	16,782	5.08 %
Gas	34,199	10.36 %
Total TNB	50,981	15.44 %
ST-Coal	207,339	62.81 %
LSS	3,585	1.09 %
Gas	67,164	20.35 %
Total IPP	278,088	84.25 %
Co-Gen	604	0.18 %
Total Co-Gen	604	0.18 %
Total Generation	329,673	99.88 %
PLTG	281	0.09 %
HVDC	-692	-0.21 %
Interconnection	-411	-0.12 %
Net Energy	330,084	100.00 %

Fuel Cost

Total Cost:	51,630,590.00 RM
Cost per Unit	15.66 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	212
Hydro	219
Syncon	529
Thermal	752
Total	1,712

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	24

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	14392	13882	13401	12947	12574	12225	12138	11929	11744	12643	13352	13762	13934	13898	14253	14514	14594	14355	14056	14217	15416	15344	15042	15004

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 9:10:34 AM

(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	693	689	693	692	651	602	496	503	501	502	504	452	351	299	300	301	302	300	408	506	502	603	603	603	602	655	632	601	653	692	693	694	692	694	693	693	689	689	695	692	691	689	696	695	692	690	694	693			
JMAH	U002	697	694	696	698	654	604	501	506	505	504	504	453	353	308	303	306	306	304	416	595	500	501	503	607	598	652	636	605	655	691	692	692	695	697	695	694	697	687	696	692	694	692	695	695	696	694	694	695			
JMHE	U001	984	976	899	848	853	838	852	852	817	781	780	780	778	781	781	779	784	778	784	783	781	782	871	859	871	872	872	915	922	922	920	917	921	919	918	923	921	921	921	923	981	982	978	981	983	954	947	950			
JMHE	U002	980	979	903	848	851	852	854	852	798	780	781	781	780	778	782	782	778	786	781	782	782	870	862	869	871	873	921	920	921	920	918	923	920	921	925	923	921	920	921	981	979	976	980	985	953	950	953				
JMIG	U001	669	666	672	667	666	658	668	668	667	668	667	662	669	667	662	669	667	593	540	549	579	593	597	593	600	591	544	508	510	508	508	507	507	505	507	508	506	508	514	546	596	629	662	669	668	666	671	667	667	669	668
JMIG	U003	665	664	664	662	667	666	663	658	671	667	663	662	667	664	586	541	548	588	593	594	596	595	592	540	509	518	516	514	513	520	521	513	512	514	520	520	540	595	612	667	663	671	662	660	664	663	666	666	664		
JMIG	U004	977	959	905	872	856	856	855	856	846	787	786	787	783	787	785	789	787	786	786	787	787	785	839	877	876	874	882	924	923	925	922	924	925	922	920	923	923	921	940	977	980	978	977	979	948	947	951				
JMIG	U005	891	891	895	848	854	848	848	852	830	798	796	800	801	801	800	799	799	799	797	804	796	798	799	885	891	890	890	890	890	890	887	891	887	891	892	889	892	891	889	891	892	891	889	891	892	891	889	888	892		
PKLG	U004	276	288	225	161	155	158	158	159	163	159	160	158	158	158	157	158	157	158	157	158	157	158	157	158	159	160	155	158	155	159	159	157	159	160	159	157	157	157	158	155	153	249	272	275	273	274	278	283	229		
PKLG	U006	446	448	446	448	449	449	449	449	446	449	452	450	409	328	268	268	269	282	347	440	443	448	450	450	448	450	450	448	448	447	446	445	445	449	448	449	449	449	449	449	449	449	449	446	449	446	446	447			
TBIN	U001	353	328	304	301	301	301	301	301	301	301	300	302	302	302	302	303	302	406	402	454	497	499	500	498	500	535	499	500	550	551	602	597	598	597	598	498	485	425	551	550	551	551	552	550	550	551	549				
TBIN	U002	385	447	455	524	569	665	703	648	509	399	403	326	302	303	302	302	302	272	378	403	459	497	502	501	501	500	540	498	502	550	550	607	601	602	601	602	539	493	409	557	553	552	551	552	553	551	552	551			
TBIN	U003	456	475	450	348	301	302	305	305	303	303	303	303	303	304	303	303	304	311	307	305	303	300	304	305	303	302	301	263	303	302	303	302	303	309	300	306	302	302	302	303	303	304	280	302	304	305	255				
TBIN	U004	981	948	903	859	852	853	853	854	853	852	852	853	853	852	852	853	852	853	852	853	852	854	874	872	872	871	891	923	926	921	922	922	921	924	922	925	922	922	955	985	982	985	983	955	953	951	955				
Total ST-Coal		9453	9452	9110	8776	8679	8652	8506	8462	8211	7951	7952	7766	7509	7333	7115	7021	7045	7089	7610	8008	8006	8198	8382	8529	8502	8626	8653	8594	8819	8999	8993	9092	9093	9094	9105	9108	9006	9010	8941	9452	9659	9662	9652	9640	9637	9540	9543	9452			
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	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	0	0
EMPP	BLK1	746	756	700	753	755	755	758	757	754	759	760	759	761	753	761	745	752	760	745	755	756	755	700	739	754	375	529	749	752	752	748	750	747	746	681	710	677	611	707	749	743	740	750	732	746	750	751	747			
GLGR	GT01	25	35	40	90	106	108	108	107	108	72	68	67	67	67	68	68	68	68	68	68	68	68	66	67	68	67	68	66	68	68	67	68	68	66	69	67	67	67	74	105	103	103	104	104	76	68	66	68			
GLGR	GT02	109	109	108	91	106	107	108	108	107	71	68	68	68	68	68	68	68	68	68	68	67	68	67	67	67	67	67	67	67	67	67	67	67	67	67	68	68	67	74	104	104	105	104	104	75	67	68	68			
GLGR	ST1C	46	44	48	36	90	96	96	96	97	79	71	72	71	72	72	72	71	71	72	71	72	72	73	72	72	72	72	72	72	72	73	73	73	73	73	73	73	72	73	94	94	93	94	94	83	73	72	72			
NPRI	BLK1	516	513	511	517	514	517	514	513	514	520	515	516	515	508	515	512	514	506	517	513	515	518	506	508	516	514	517	509	513	514	500	511	517	512	514	512	497	516	512	509	512	513	507	516	517	516	512	512			
NPRI	BLK2	513	379	534	533	278	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCGP	PGRG	603	600	597	604	603	602	603	603	607	602	604	603	591	603	594	600	603	590	604	602	602	602	592	595	602	598	607	594	603	604	581	603	604	598	605	598	579	603	604	596	597	603	593	602	611	602	599				
PGLA	GT11	219	218	218	218	218	219	219	221	219	218	216	188	168	171	219	216	218	218	217	217	214	214	217	216	218	214	217	216	218	217	216	217	215	217	216	211	217	217	215	215	217	215	216	218	218	216					
PGLA	GT12	223	223	221	222	223	223	222	224	224	223	223	222	221	192	171	173	222	219	222	221	221	221	218	219	222	220	223	219	221	221	215	221	221	219	222	220	215	221	221	218	220	221	218	221	224	222	221				
PGLA	ST10	233	238	238	239	239	237	237	236	236	238	238	238	238	238	216	204	201	240	234	237	239	239	241	239	241	240	242	240	240	240	238	241	242	242	241	241	236	241	239	239	240	239	236	239	243	241	238				
PLPS	GT11	129	129	129	128	130	129	129	128	129	129	129	129	129	128	128	129	128	129	128	129	129	129	129	128	129	128	129	129	129	129	129	129	129	126	127	126	114	145	142	146	146	142	144	146	146	146	146	146			
PLPS	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	0	0	61	142	114	140	138	141	141	137	142	143	141	141	141			
PLPS	ST18	55	57	57	58	57	56	56	57	56	56	55	56	57	57	56	56	57	57	57	57	57	57	57	57	57	56	58	56	58	56	57	56	57	57	57	57	57	57	58	141	135	148	144	145	145	142	146	145	143	145	145
SPGP	BLK2	0	0	0	0	0	0	0	0	0	0	79	337	546	724	723	723	723	723	723	721	724	724	722	724	723	721	720	722	717	7																					

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																										
KNRG	HY03	22	34	21	22	22	23	23	23	23	23	23	23	23	23	22	23	22	21	22	21	21	22	34	34	34	34	34	34	34	34	34	34																		
KNYR	HY01	57	59	96	58	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96																		
KNYR	HY02	58	59	96	58	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95																		
KNYR	HY03	58	60	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97																		
KNYR	HY04	58	60	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98																		
LPIA	HY01	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	21	21	21	21	21	21	21																		
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																	
PGAU	HY01	21	-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																	
SIHY	HY01	31	0	0	0	0	0	0	0	0	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	30	0	0	0	0	0	0	0	0	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	30	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0	0	0																	
TMGR	HY01	33	47	55	75	48	80	83	44	59	83	62	79	70	46	44	41	46	83	82	73	42	46	83	82	75	55	83	39	79	83	63	83	56	38	55	59	41	41	72	41	47	82	83	55						
TMGR	HY02	35	45	44	50	45	47	49	44	46	54	45	47	44	44	44	66	43	44	48	45	47	44	45	79	88	44	46	59	40	48	88	45	74	46	40	47	45	43	42	49	43	44	88	74	45					
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1							
UJLI	HY02	119	-1	-1	-1	94	-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	89	89	94	89	91	97	93	90						
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6						
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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
Total Hydro		813	670	638	602	644	718	628	584	600	633	602	622	615	585	584	570	408	636	411	396	586	591	628	615	577	682	659	689	615	601	735	846	822	864	801	748	664	599	758	997	1132	1030	994	953	772	881	844	782		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BDSL	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BKLS	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BSLS	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CHLS	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GBLS	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GELS	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GNLS	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JSLs	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	0	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	0	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	0	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	0	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	0	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	0	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	0	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	0	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	0	0	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	29	29	27	29	29	31	28	28	29	29	28	27	29	29	29	29	29	29	29	29	0	0	0	0	0	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	CUFK	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
Total Co-Gen		42	42	40	42	42	44	41	41	42	42	41	40	42	41	42	42	42	42	42	42	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13		
Total Gen		14353	14115	13851	13588	13331	13147	12917	12762	12527	12293	12208	12140	12126	12080	11936	11766	11690	12254	12555	13027	13279	13573	13720	13911	13874	13781	13887	14086	14255	14451	14482	14654	14618	14572	14383	14312														

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																								
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								
SRev CCGT-Gas		173	191	153	101	410	113	106	173	171	183	238	338	341	323	377	436	425	207	260	224	234	231	228	253	248	227	236	221	251	236	229	285	233	222	243	226	317	204	246	99	128	112	106	138	173	178	195	207
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 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
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
Syncon		187	525	525	525	525	338	525	525	525	525	525	525	525	525	525	525	525	374	525	525	525	525	651	651	464	651	500	651	651	651	651	651	651	651	500	651	464	464	277	464	464	464	464	313	464	464		
Hydro		749	404	162	198	180	189	93	137	121	88	119	99	106	136	137	151	313	85	446	310	120	139	102	114	152	234	70	191	114	128	98	274	115	73	136	151	336	200	273	232	415	330	366	407	263	305	191	253
S.Reserve Total		1364	1520	1497	1472	1991	1476	1516	1682	1817	1705	1793	1883	1921	1944	2092	2161	2311	1869	2131	2067	1885	1898	1856	1936	1964	1791	1863	1790	1803	1723	1695	1743	1706	1653	1738	1733	1855	1792	1685	1365	1186	1269	1309	1372	1287	1280	1334	1419