

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	16,594 MW
Total Co-Gen	0 MW
Total System	21,487 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,607	5.36 %
Gas	31,796	9.68 %
Total TNB	49,403	15.04 %
ST-Coal	190,999	58.16 %
LSS	3,479	1.06 %
Gas	82,365	25.08 %
Total IPP	276,843	84.30 %
Co-Gen	1,235	0.38 %
Total Co-Gen	1,235	0.38 %
Total Generation	327,481	99.72 %
PLTG	-234	-0.07 %
HVDC	-695	-0.21 %
Interconnection	-929	-0.28 %
Net Energy	328,410	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:	15:00:00 Hour
Total Set On Bus	16,732 MW
TNB Generation	1,871 MW
IPP Generation	13,315 MW
Spinning Reserve	1,495 MW
Maximum Demand	15,332 MW
Net Energy	328,410 MWH
Load Factor	89.25 %

Fuel Cost

Total Cost:	50,358,380.11 RM
Cost per Unit	15.37 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	285
Hydro	183
Syncon	585
Thermal	404
Total	1,457

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	76
Total TNB	105
CBPS	52
KLPP	0
NPRI	160
PGLA	110
SGRI	24
Total IPP	346
Total Gas	452
Total Gas Required	452

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	13133	12588	12148	11836	11686	11529	11587	11808	12273	13591	14204	14605	14645	14635	15112	15332	15238	14966	14185	14176	15186	14852	14502	14289

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 9:08:36 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

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	402	351	352	352	351	350	350	351	302	302	300	301	302	302	301	302	504	570	600	602	675	693	694	689	652	569	650	691	692	675	599	602	604	562	449	452	451	575	691	695	652	650	653	650	633	599	555			
JMAH	U002	406	355	355	354	355	353	355	354	302	304	308	304	305	303	304	304	303	514	606	604	606	647	697	697	703	653	606	646	693	696	684	607	605	607	584	485	455	454	562	697	697	659	656	655	654	636	602	556		
JMHE	U001	849	844	801	802	803	781	782	783	780	780	780	779	782	780	779	778	785	850	852	854	928	927	928	930	927	932	932	934	955	953	979	974	976	975	980	979	977	977	980	976	980	976	978	930	932	932	924	898		
JMHE	U002	848	842	801	801	798	779	779	783	780	782	779	780	781	780	778	776	786	852	852	855	932	928	930	931	927	929	932	933	951	951	984	977	980	980	982	978	980	984	983	977	982	979	980	930	930	929	925	902		
JMIG	U001	599	600	598	596	596	582	547	501	508	500	448	447	447	447	494	490	539	609	673	670	671	674	672	673	671	667	672	678	671	662	671	669	643	680	671	671	672	598	591	628	681	672	672	671	673	668	674	667		
JMIG	U003	666	667	666	668	665	639	559	500	452	447	447	449	444	443	465	495	512	553	618	677	658	668	663	666	665	671	656	667	666	667	663	662	675	669	668	667	671	671	665	671	668	673	672	668	668	665	672	669		
JMIG	U004	856	838	806	807	807	788	789	788	788	790	789	791	789	787	790	788	788	818	853	854	906	928	929	929	932	930	932	931	949	947	976	977	977	978	975	977	977	981	980	980	977	979	979	951	928	928	929	899		
JMIG	U005	848	813	801	797	800	787	807	794	803	799	799	804	801	799	801	798	801	799	867	892	887	889	894	892	892	887	892	888	892	889	887	888	888	890	884	887	888	892	891	887	889	891	889	892	888	887	892			
PKLG	U004	159	159	159	159	162	159	158	158	160	159	160	158	159	160	156	158	158	228	278	282	279	278	276	275	278	281	277	276	273	279	282	277	273	277	268	156	158	158	262	280	231	167	158	159	159	158	158			
PKLG	U006	420	347	283	278	278	279	278	278	281	278	278	278	278	280	278	277	333	418	449	450	450	446	446	446	450	447	442	450	450	448	449	446	448	449	447	446	451	440	450	451	449	450	450	449	446	449	446			
TBIN	U001	210	210	210	211	209	211	211	213	211	210	210	212	212	211	210	209	212	210	209	210	212	212	212	211	211	210	210	212	212	210	211	210	210	210	214	211	213	212	209	211	210	209	211	211	210	209	212			
TBIN	U003	401	312	304	303	303	304	302	303	303	303	303	302	304	302	301	303	303	409	506	502	503	501	501	550	553	505	489	453	501	502	556	393	472	499	506	421	405	404	492	652	691	653	654	600	601	556	551	502		
TBIN	U004	904	903	854	852	854	851	853	853	854	853	852	854	853	854	853	853	854	852	852	926	931	934	930	931	934	934	933	953	952	982	981	983	984	982	983	984	982	981	982	982	981	982	935	934	936	933	903			
Total ST-Coal		7568	7241	6990	6980	6981	6863	6770	6659	6524	6507	6453	6459	6457	6445	6517	6530	6619	7463	8104	8297	8563	8709	8777	8825	8822	8698	8552	8644	8859	8849	8998	8667	8735	8795	8736	8423	8273	8212	8511	9066	9182	9003	8940	8701	8681	8586	8512	8259		
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	0
CBPS	BLK2	357	357	365	359	360	356	362	353	359	362	362	362	369	362	359	359	373	359	350	360	287	345	353	332	323	341	288	320	288	313	325	358	370	336	289	304	311	375	292	343	288	310	291	325	321	354	282	289		
EMPP	BLK1	700	700	700	700	700	700	700	700	700	700	700	700	700	700	766	767	767	766	765	747	746	747	747	747	748	747	748	746	747	747	700	699	647	733	754	375	376	507	756	747	747	745	740	748	729	735				
GLGR	GT02	95	96	96	96	96	96	96	96	96	96	96	96	96	96	95	96	96	96	96	96	95	95	95	95	96	96	96	95	95	96	96	95	95	96	96	96	96	96	96	95	96	95	96	95	96	95	96			
GLGR	ST1C	40	41	40	40	41	41	40	40	39	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41			
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NPRI	BLK1	508	511	515	515	514	506	509	512	516	515	515	515	524	518	515	512	527	514	506	511	500	506	512	509	502	513	505	516	508	511	515	510	514	506	504	511	507	522	509	515	508	509	505	511	509	515	497	502		
NPRI	BLK2	510	514	517	518	516	510	511	515	517	518	518	520	528	522	518	517	529	518	509	513	518	508	514	509	503	515	506	520	509	512	518	512	517	510	506	513	509	521	511	518	509	512	506	515	512	517	499	505		
PCGP	PGRG	593	597	602	603	600	591	595	595	603	603	603	604	612	608	602	599	620	601	589	593	583	591	597	594	583	600	590	602	592	598	602	596	600	591	586	597	593	613	593	602	591	593	586	596	595	603	578	585		
PGLA	GT11	215	215	218	218	217	214	187	186	168	170	170	174	208	233	234	235	235	215	213	209	183	212	213	211	214	203	216	196	197	171	186	189	202	183	188	185	201	214	217	213	214	213	214	214	216	212	213			
PGLA	GT12	219	221	223	222	221	219	192	191	172	174	174	174	178	213	236	237	238	239	218	218	213	187	214	217	215	221	207	219	200	200	173	190	192	207	186	192	191	205	220	221	217	218	216	220	220	222	215	218		
PGLA	ST10	235	235	236	236	236	234	215	215	207	203	203	203	206	230	250	252	252	250	233	234	231	216	235	237	237	238	235	238	224	224	201	219	218	230	222	214	217	226	236	238	235	235	235	236	235	236	235	234		
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	60	60	142	142	142	142	142	142	139	60	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	81	139	146	146	146	147	143	41	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	140	140	141	145	145	145	145	148	145	54	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	41	26	160	124	169	210	223	226	226	223	207	52	9	9	9	9	9	0	0	0	0	
SPGP	BLK1	725</																																																	

Daily MW Generation on Wednesday

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	22	22	35	35	22	22	22	22	23	23	23	23	23	23	23	23	22	22	22	22	22	22	22	22
KNYR	HY01	96	97	96	96	96	96	96	97	96	96	96	96	96	96	96	96	96	96	95	93	96	96	96	96
KNYR	HY02	61	61	74	81	65	59	67	61	96	74	96	98	98	97	97	97	97	97	97	94	97	97	97	97
KNYR	HY03	98	98	98	98	98	98	98	98	97	98	59	60	63	97	97	97	97	97	97	97	97	97	97	97
KNYR	HY04	63	60	76	76	69	60	68	60	92	74	95	99	98	98	98	98	98	98	98	98	98	98	98	98
LPIA	HY01	24	24	24	24	24	24	24	24	24	24	24	24	24	24	20	22	22	21	21	21	21	21	21	21
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	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	50	31	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30
SIHY	HY02	50	30	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16
TMGR	HY01	-1	-1	83	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	82	34	32	33	79	81	82	81	79	82
TMGR	HY02	56	51	63	70	59	44	56	46	89	66	89	88	89	88	64	88	89	41	88	81	83	86	85	
UJLI	HY01	-1	-1	90	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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		586	540	907	602	487	458	486	462	574	511	500	507	515	601	579	509	671	637	569	625	667	676	700	
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	
BDLS	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
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
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
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
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
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
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
JLSL	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
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	
PCUF	CUFG	28	28	28	29	28	29	29	29	29	30	28	27	27	28	28	28	28	28	28	28	27	25	23	24
PCUF	CUFK	26	25	26	28	26	26	25	26	27	25	26	26	26	25	25	25	26	26	26	27	26	27	26	27
Total Co-Gen		54	53	54	57	54	55	54	55	56	55	54	53	56	52	52	53	54	53	54	55	54	53	53	
Total Gen		13084	12728	12560	12242	12120	11940	11809	11674	11623	11548	11486	11499	11553	11690	11796	11744	12156	12970	13547	13860	14168	14380	14573	
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
TIE-HVDC		-29	-29	-28	-28	-30	-30	-29	-29	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-16	-41	3	-51	5	-1	6	-19	-29	7	-10	8	-3	26	21	-6	-83	-16	-12	-62	-4	-15	0	

Daily MW Generation on Wednesday

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																											
Interconnection		-45	-70	-25	-79	-25	-31	-23	-48	-59	-23	-40	-22	-31	-2	-8	-35	-113	-45	-41	-92	-33	-44	-29	-36	-17	-36	16	-38	-33	-58	-91	-39	-41	-32	-52	-68	-27	-42	-6	28	-57	-63	-23	-48	-33	-53	-4	-42			
System Total		13133	12801	12588	12324	12148	11975	11836	11726	11686	11574	11529	11524	11587	11696	11808	11783	12273	13018	13591	13955	14204	14427	14605	14757	14645	14661	14635	14939	15112	15317	15332	15225	15238	15310	14966	14530	14185	14052	14176	14898	15186	15026	14852	14704	14502	14493	14289	14004			
SRev ST-Coal		727	782	798	799	803	842	884	898	899	908	908	902	908	909	909	914	905	913	777	644	573	481	413	414	420	496	541	498	331	342	247	298	331	344	345	361	368	318	449	253	137	291	290	490	512	562	572	673			
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	0	
SRev CCGT-Gas		174	156	87	93	98	132	197	198	227	221	217	216	171	104	48	51	-11	44	260	239	340	482	246	270	340	406	248	372	391	250	320	211	184	223	590	581	273	110	195	140	235	213	251	187	197	145	287	259			
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	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	1	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	0	0
Syncon		738	738	338	500	738	738	738	738	738	738	738	738	738	587	738	738	651	651	651	651	651	651	500	464	651	651	651	651	651	651	651	500	651	651	651	651	651	338	338	338	464	464	464	464	651	651	651	651			
Hydro		146	193	226	269	146	174	146	170	58	122	133	126	118	182	53	123	48	83	151	95	53	44	171	138	47	39	54	50	98	94	277	283	171	174	181	154	58	186	293	316	386	384	292	286	153	150	67	123			
S.Reserve Total		1785	1869	1449	1661	1785	1886	1965	2004	1922	1989	1996	1982	1935	1782	1748	1826	1593	1691	1839	1629	1617	1658	1330	1286	1458	1592	1494	1571	1471	1338	1495	1292	1337	1392	1767	1747	1350	952	1275	1047	1222	1352	1297	1427	1513	1508	1577	1706			