

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,120 MW
Distillate	0 MW
<b>Total TNB</b>	<b>2,120 MW</b>
<b>Total IPP</b>	<b>16,386 MW</b>
<b>Total Co-Gen</b>	<b>0 MW</b>
<b>Total System</b>	<b>21,474 MW</b>

### Generation Mix

Type	MWh	Percentage
Hydro	18,644	5.48 %
Gas	43,066	12.66 %
<b>Total TNB</b>	<b>61,710</b>	<b>18.14 %</b>
ST-Coal	186,806	54.91 %
ST-Gas	2,205	0.65 %
LSS	3,502	1.03 %
Gas	86,136	25.32 %
<b>Total IPP</b>	<b>278,649</b>	<b>81.91 %</b>
Co-Gen	178	0.05 %
<b>Total Co-Gen</b>	<b>178</b>	<b>0.05 %</b>
<b>Total Generation</b>	<b>340,537</b>	<b>100.10 %</b>
PLTG	-368	-0.11 %
HVDC	725	0.21 %
<b>Interconnection</b>	<b>357</b>	<b>0.10 %</b>
<b>Net Energy</b>	<b>340,180</b>	<b>100.00 %</b>

### 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:	15:30:00 Hour
Total Set On Bus	17,523 MW
TNB Generation	2,642 MW
IPP Generation	13,015 MW
Spinning Reserve	1,859 MW
Maximum Demand	15,648 MW
Net Energy	340,180 MWH
Load Factor	90.58 %

### Fuel Cost

Total Cost:	53,339,049.00 RM
Cost per Unit	15.66 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	596
Hydro	221
Syncon	622
Thermal	271
<b>Total</b>	<b>1,710</b>

### Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	25

### Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	185
<b>Total TNB</b>	<b>213</b>
CBPS	51
KLPP	36
NPRI	159
PGLA	87
PLPS	20
PKLG	21
<b>Total IPP</b>	<b>375</b>
<b>Total Gas</b>	<b>588</b>
<b>Total Gas Required</b>	<b>588</b>

### Alternate Fuel Usage

Station	(mmscfd)
<b>Total</b>	<b>0</b>

### 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	14373	13718	13206	12744	12331	12204	12131	12198	12518	13809	14430	14896	14960	14928	15349	15627	15545	15172	14323	14175	15420	15403	15088	15141

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 8:59:06 AM

(Ir. Shanmugam Thoppalan)  
Head  
Grid System Operator

### Daily MW Generation on Thursday

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	602	602	603	603	603	599	501	396	401	504	502	501	503	502	400	402	500	522	632	603	603	694	695	689	694	653	689	692	692	692	692	689	692	692	695	652	652	653	693	696	692	694	692	692	693	692	693	696	696	
JMAH	U002	610	606	606	603	604	605	604	503	401	402	505	503	502	504	503	405	406	506	529	654	605	603	697	697	695	696	658	694	695	695	693	696	692	697	695	693	656	655	656	693	693	699	702	693	697	693	696	696		
JMHE	U001	980	901	902	835	801	803	797	801	800	800	799	801	803	799	799	803	804	900	899	899	905	952	953	951	948	947	954	950	981	980	980	978	979	980	982	980	978	978	982	980	981	983	979	980	978	980	979	981		
JMIG	U001	590	596	596	597	598	597	598	597	560	506	543	547	546	658	625	592	595	663	671	670	673	676	671	671	678	672	672	671	671	667	672	671	677	677	672	676	667	673	674	677	670	671	668	677	672	674	672			
JMIG	U004	981	928	897	840	809	808	809	805	810	809	809	808	807	808	808	809	843	902	905	904	951	951	951	950	949	952	948	981	979	980	979	977	979	977	981	983	981	978	979	979	981	977	980	980	982	982	981			
JMIG	U005	888	887	873	798	799	803	796	804	799	799	801	801	800	803	799	801	801	882	892	888	890	888	892	890	894	891	890	889	892	890	887	889	892	889	891	889	892	891	890	892	891	892	891	894	892	891	892	888		
PKLG	U004	168	156	158	154	157	156	156	148	158	157	225	262	279	277	242	166	158	156	159	156	153	159	214	278	278	275	283	281	278	280	276	278	278	277	274	274	276	277	280	277	272	271	272	280	279	280	279	277		
PKLG	U006	448	447	450	449	449	449	448	449	448	447	446	448	446	449	449	448	449	448	449	448	450	447	446	448	448	449	448	447	448	446	448	446	447	445	445	447	447	449	449	448	448	448	448	448	450	452	451			
TBIN	U001	602	599	601	561	418	351	351	351	304	211	212	211	210	211	211	211	253	359	363	455	431	498	601	681	687	693	669	689	690	690	687	690	689	689	684	650	648	650	693	689	689	690	691	691	688	690				
TBIN	U002	619	603	602	604	490	349	354	355	327	263	212	213	212	213	212	213	239	308	358	458	433	502	610	688	689	694	653	683	690	691	691	692	690	687	691	684	653	650	653	693	691	691	691	688	691	692	691	683		
TBIN	U003	618	602	600	600	563	358	355	353	334	243	211	213	212	212	212	213	244	369	432	505	612	688	689	690	659	682	689	691	691	690	692	691	693	687	654	654	653	690	691	691	691	689	686	691	696	691				
TBIN	U004	984	905	890	853	854	853	853	853	852	853	852	854	853	855	853	852	904	902	904	903	952	952	955	954	952	951	953	983	981	984	985	982	983	983	982	983	984	983	983	982	982	984	982	985	983	984	982			
Total ST-Coal		8090	7832	7778	7497	7145	6732	6720	6520	6190	5890	6120	6161	6172	6290	6217	5914	5979	6682	6889	7439	7380	7739	8294	8591	8599	8601	8427	8557	8688	8688	8677	8686	8678	8688	8689	8666	8500	8484	8500	8696	8690	8689	8690	8685	8693	8698	8705	8684		
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	
PKLG	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	355	356	356	360	360	362	357	356	364	362	357	357	357	357	357	357	364	356	363	357	357	356	349	356	354	362	354	362	361	361	303	292	357	293	219	212	218	340	354	354	355	355	357	362	362	355				
EMPP	BLK1	741	741	730	733	755	750	735	740	752	755	748	749	739	735	735	741	737	734	739	724	742	731	724	722	705	436	669	731	725	727	734	724	712	707	728	726	721	727	727	739	726	724	721	725	717	747	747	734		
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	93	167	167	181	181	182	182	181	182	174	174	195	221	289	328	175	174	175	175	176	0	0	0	0	0	0	0	0	0	0	0	0	0
GLGR	GT02	96	95	96	96	95	96	96	96	95	96	96	95	96	96	95	96	96	95	95	96	96	96	96	96	96	95	95	95	95	96	95	95	96	95	95	96	95	95	96	95	96	95	96	95	96	96	95			
GLGR	ST1C	40	41	40	41	41	40	41	40	41	40	41	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40	40	41	40			
KLPP	GT15	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125			
KLPP	ST17	66	65	65	65	65	64	65	66	65	64	65	64	65	66	65	65	66	65	65	66	65	65	63	65	65	65	65	66	66	66	66	66	66	65	66	66	66	67	67	68	65	66	66	66	66	67	66			
NPRI	BLK1	519	518	517	517	524	527	515	518	527	535	520	524	519	518	518	518	520	515	526	512	526	524	517	517	503	512	512	521	518	522	525	521	515	509	524	503	513	510	520	524	514	514	516	521	511	523	526	514		
NPRI	BLK2	523	520	519	520	529	529	518	521	529	530	521	526	524	520	521	520	523	517	528	516	527	518	517	518	505	514	515	524	518	520	521	520	518	506	518	506	514	511	521	521	515	516	518	522	516	526	528	518		
PCCP	PGRG	596	594	591	593	603	605	589	595	606	615	592	598	594	592	594	590	596	588	602	588	604	595	588	590	572	584	587	601	592	599	603	600	590	580	600	574	588	586	596	603	587	587	592	596	589	602	603	590		
PGLA	GT11	215	174	174	223	226	226	222	224	227	230	223	226	224	224	226	193	234	233	228	208	217	213	167	167	162	166	165	169	170	170	168	166	210	170	162	166	164	168	170	210	183	165	166	164	169	165				
PGLA	GT12	220	179	133	0	0	0	0	0	0	0	0	0	0	0	14	142	226	231	228	223	220	221	171	171	165	169	170	173	171	173	169	212	173	166	169	167	172	174	216	188	169	169	168	174	172	168				
PGLA	ST10	235	218	92	112	112	114	113	111	111	113	111	110	111	111	91	249	250	251	237	239	237	201	203	202	201	205	203	206	205	204	234	202	201	203	203	204	206	235	214	202	202	202	202	205	203	201				
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	46	47	46	45	45	45	45	132	129	129	128	129	129	129	129	129	128	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129			
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	718	719	712	716	725	727	714	717	725	732	719	722	719	716	716	7																																		

### Daily MW Generation on Thursday

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	
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
KNRG	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
KNRG	HY02	25	25	25	25	26	26	25	25	25	25	25	25	25	25	26	21	21	21	21	21	21	21	21	21	21
KNRG	HY03	23	22	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
KNYR	HY01	56	56	56	56	58	98	98	96	58	97	97	55	55	55	55	97	97	97	97	97	96	97	97	97	97
KNYR	HY02	58	58	58	58	59	99	99	97	59	98	98	57	57	57	57	98	97	98	98	58	93	92	60	58	55
KNYR	HY03	57	0	0	0	0	0	0	59	58	98	98	56	56	56	56	98	96	98	98	98	95	98	97	98	95
KNYR	HY04	64	94	63	78	99	100	59	59	99	99	59	75	58	62	73	61	58	60	98	98	96	99	99	98	95
LPJA	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	21	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	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	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	-1	-1	-1	-1	82	81	31	32	32	31	31	31	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	37	38	36	36	38	83	80	35	36	36	35	35	35	34	34	34	35	33	35	33	-1	-1	-1	-1	-1
TMGR	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
TMGR	HY04	52	79	48	59	84	82	40	48	83	83	42	63	44	49	60	46	46	40	84	39	81	77	39	39	36
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	-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
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	5	5	5	5	5	5	4	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		485	485	421	471	502	712	620	587	593	712	621	536	499	506	517	594	589	615	718	626	622	610	539	567	571
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	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
PCUF	CUFK	4	3	4	4	6	5	4	3	5	4	4	4	3	4	3	4	3	4	4	4	4	4	3	3	4
PCUF	CUFK	4	3	3	2	4	5	2	5	3	4	3	3	5	5	3	3	4	4	4	3	3	4	3	4	3
Total Co-Gen		8	6	7	6	10	10	6	8	8	8	7	7	8	7	8	6	7	9	8	8	11	9	6	6	8

### Daily MW Generation on Thursday

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		14402	14039	13718	13443	13185	12996	12798	12592	12319	12181	12233	12207	12154	12268	12225	12125	12534	13303	13822	14247	14433	14722	14929	15108	15018	14989	14911	15328	15369	15568	15571	15664	15594	15483	15159	14753	14349	14150	14205	14996	15468	15387	15403	15274	15131	15205	15138	14814			
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	0	0
TIE-HVDC		30	30	30	31	31	31	31	31	31	30	30	30	30	31	31	30	30	29	29	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	31	30	30	30	30	29	29	31	31	31	31	31	30	30		
TIE-PLTG		-1	-8	-30	3	-51	-56	24	-10	-42	-46	-1	-16	-7	-6	-4	-10	-14	-2	-16	25	-27	-32	2	-22	27	-46	-44	-29	-7	-62	-84	-11	22	6	-40	24	-1	18	4	-46	23	-24	-28	-30	15	-29	-31	-13			
Interconnection		29	22	0	34	-21	-25	54	21	-12	-16	29	14	23	25	27	20	16	28	13	55	3	-1	33	8	58	-16	-14	1	23	-32	-53	19	52	36	-10	54	29	48	33	-17	51	4	3	1	46	2	0	17			
System Total		14373	14017	13718	13409	13206	13021	12744	12571	12331	12197	12204	12193	12131	12243	12198	12105	12518	13275	13809	14192	14430	14723	14896	15100	14960	15008	14928	15330	15349	15603	15627	15648	15545	15450	15172	14702	14323	14105	14175	15016	15420	15386	15403	15276	15088	15206	15141	14800			
SRev ST-Coal		452	659	692	765	756	615	616	620	750	592	612	548	537	418	615	619	550	468	690	668	684	545	417	228	220	218	392	262	131	131	142	133	141	131	130	153	319	335	319	123	129	130	129	134	126	121	114	135			
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		200	303	438	484	447	126	201	181	142	102	181	164	182	188	401	356	181	207	158	260	186	226	545	900	1018	837	904	834	867	848	842	859	948	470	835	1040	1098	1077	1064	935	304	413	443	559	655	755	755	922			
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	5	2	3	-2	-7	0	11	19	-18	-27	-52	11	32	38	40	50	43	35	21	3	2	1	1			
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	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	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	
Syncon		738	738	738	587	738	651	651	651	651	651	651	651	651	651	587	738	738	738	738	738	826	826	826	826	826	675	826	826	826	738	738	738	651	651	651	651	738	738	738	277	277	126	277	277	277	464	464	464			
Hydro		361	261	325	426	244	121	213	246	240	221	312	397	434	427	480	252	257	281	178	270	98	110	181	203	199	290	233	103	122	80	60	118	230	260	198	368	414	365	288	244	371	499	309	317	383	82	156	279			
S.Reserve Total		1751	1961	2193	2262	2185	1513	1681	1698	1783	1566	1756	1760	1804	1684	2083	1965	1726	1693	1764	1936	1794	1707	1969	2157	2262	2025	2357	2028	1944	1790	1782	1859	1989	1494	1787	2160	2580	2547	2447	1619	1131	1211	1193	1333	1444	1424	1490	1801			