

Daily System Generation Summary on Thursday

Thursday, April 1, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,331 MW
Distillate	0 MW
Total TNB	2,331 MW
Total IPP	17,219 MW
Total Co-Gen	0 MW
Total System	22,089 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,372	5.02 %
Gas	46,838	12.14 %
Total TNB	66,210	17.16 %
ST-Coal	225,220	58.38 %
LSS	3,354	0.87 %
Gas	90,701	23.51 %
Total IPP	319,275	82.76 %
Co-Gen	160	0.04 %
Total Co-Gen	160	0.04 %
Total Generation	385,645	99.96 %
PLTG	610	0.16 %
HVDC	-769	-0.20 %
Interconnection	-159	-0.04 %
Net Energy	385,804	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:	16:30:00 Hour
Total Set On Bus	19,329 MW
TNB Generation	3,356 MW
IPP Generation	14,759 MW
Spinning Reserve	1,206 MW
Maximum Demand	18,147 MW
Net Energy	385,804 MWH
Load Factor	88.58 %

Fuel Cost

Total Cost:	51,679,028.28 RM
Cost per Unit	13.39 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	343
Hydro	454
Syncon	457
Thermal	87
Total	1,341

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	51
SRDG	8
TJGS	201
Total TNB	260
CBPS	49
KLPP	50
NPRI	152
PGLA	88
PLPS	79
SKSP	25
YPKA	44
Total IPP	487
Total Gas	747
Total Gas Required	747

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	16011	15282	14675	14132	13789	13546	13557	13698	13922	15598	16500	17055	17177	16919	17642	18046	18136	17790	16629	16388	17616	17513	17157	16882

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:39:54 PM

(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	693	692	696	693	691	692	692	691	690	691	693	612	601	601	500	501	604	694	692	692	698	692	702	704	701	701	699	699	700	699	698	701	699	699	700	700	702	704	702	705	701	701	706	701	700	706	701	700	706	701	700							
JMAH	U002	697	698	695	696	694	697	694	695	697	696	696	648	605	552	504	506	596	697	699	702	697	696	704	708	705	708	700	707	707	707	706	705	704	707	705	706	704	705	706	708	706	706	709	705	708	706	707	707	708	706	707							
JMHE	U002	981	982	980	857	853	852	850	850	848	851	849	852	851	852	847	850	849	914	984	979	981	982	979	980	978	982	981	983	981	981	981	978	981	979	982	981	979	976	984	982	980	981	978	983	978	979	978	978	978	978	978							
JMJG	U001	671	672	673	671	672	668	671	673	672	672	671	632	636	671	676	664	671	677	671	671	673	673	679	679	685	685	678	680	679	681	684	681	685	683	683	685	684	684	682	696	679	683	690	679	685	682	685	679	677	677	677							
JMJG	U002	672	673	672	672	673	671	672	672	674	672	673	673	672	672	672	667	671	675	672	673	672	679	684	682	682	679	682	685	682	682	679	681	684	685	682	684	677	686	682	682	682	682	681	683	682	686	684	684	684	684								
JMJG	U003	673	672	669	677	671	672	667	669	665	671	670	670	671	670	670	668	674	668	671	670	671	679	676	677	678	679	679	680	676	684	678	679	677	677	680	678	680	677	672	675	679	680	676	676	677	677	677	677	677	677	677							
JMJG	U004	928	929	920	864	854	854	855	854	854	854	854	855	854	854	854	853	904	929	930	932	931	929	929	926	925	900	899	900	898	899	897	896	896	895	896	896	896	897	898	898	897	898	900	899	899	900	898	897	897	897	897							
JMJG	U005	892	895	889	848	850	849	850	852	849	854	850	852	852	853	851	851	853	892	894	888	895	890	891	892	892	891	890	891	892	894	888	894	891	892	892	892	890	892	895	889	894	892	889	889	891	892	892	892	892	892								
PKLG	U003	277	273	279	275	277	278	280	278	280	280	278	252	218	150	149	150	150	209	272	280	281	281	281	280	281	279	277	280	280	277	280	280	279	278	271	274	274	276	275	275	274	276	279	275	279	277	281	279	281	279	279							
PKLG	U004	280	279	279	280	277	276	278	276	280	277	277	251	214	162	154	154	159	213	256	279	280	285	280	278	276	273	276	278	271	279	279	279	278	276	271	272	272	275	280	277	275	274	280	272	280	277	280	279	280	279	280							
PKLG	U006	446	442	448	448	445	445	449	449	451	451	451	422	383	313	269	269	271	316	395	445	450	446	449	446	449	449	451	448	452	445	448	448	450	450	449	451	445	445	449	451	445	449	449	449	450	449	446	446	446	446	446							
TBIN	U001	691	690	690	692	690	690	691	690	690	693	690	691	692	689	597	501	593	688	691	689	690	686	699	699	697	699	701	697	699	699	700	697	702	701	699	699	698	699	702	698	698	699	698	695	697	700	699	698	698	698	698							
TBIN	U002	694	694	694	691	694	690	691	692	691	695	692	694	692	692	602	501	577	696	692	690	689	692	700	704	703	702	699	701	703	702	698	705	701	703	700	704	704	700	700	702	699	702	702	702	701	701	702	702	702	702	702							
TBIN	U004	981	983	985	914	851	853	855	854	852	853	853	855	853	853	853	852	854	871	961	982	982	983	984	982	983	982	983	982	984	984	982	982	982	982	984	984	983	983	981	981	983	982	981	983	983	982	983	983	983	983	983	983						
Total ST-Coal		9576	9574	9569	9278	9192	9187	9195	9195	9193	9210	9196	8959	8795	8584	8198	7993	8371	9110	9482	9569	9592	9580	9635	9641	9635	9637	9594	9605	9612	9602	9615	9598	9611	9608	9593	9605	9595	9589	9614	9622	9585	9602	9625	9593	9605	9612	9613	9601	9601	9601	9601							
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	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							
CBPS	BLK2	325	218	222	226	218	223	223	222	201	215	207	222	222	222	299	352	360	359	361	364	364	358	363	350	362	359	359	351	362	363	362	365	358	366	362	359	359	360	357	360	361	360	361	345	362	362	362	357	367	367	367							
EMPP	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	0	0	0	0	0	0	0	0	86	77	30	0	0	0	0	0	0	0	179	187	188	188	188	188	188	188								
EMPP	BLK2	757	764	766	765	769	767	766	767	770	764	766	762	600	600	749	769	769	767	764	765	761	759	760	756	758	756	0	0	0	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	110	110	87	70	70	69	68	70	69	70	69	71	71	69	70	92	105	106	105	106	104	105	106	105	75	73	107	104	106	106	105	106	94	70	69	68	70	70	69	68	69	70	66	67	67	67	67	67	67	67								
GLGR	GT02	106	106	83	66	66	67	66	66	67	66	67	66	66	66	66	66	66	89	102	103	102	102	102	102	101	71	103	102	102	102	102	102	102	89	66	66	66	66	66	66	66	66	66	65	66	69	68	67	67	67	67							
GLGR	ST1C	96	96	87	72	72	72	72	72	72	72	73	72	72	72	82	93	93	93	94	94	94	94	94	80	73	93	94	94	95	95	94	95	90	73	73	72	73	73	72	73	72	73	72	73	72	73	72	73	72									
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	16	54	130	130	132	132	134	136	137	137	141	141	140	142	115	107	114	113	113	113	113	113						
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	130	145	147	147	148	150	150	151	153	153	153	157	159	158	158	125	109	114	115	103	103	103	103				
KLPP	GT15	0	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	39	37	38	61	79	88	155	154	155	160	157	157	158	159	158	158	159	158	153	153	153	153	138	128	132	132	131	131	131	131		
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	8	13	24	37	48	67	62	129	137	124	206	206	203	203	202	202	198	198	201	201	200	203	187	183	182	183	183	183
NPRI	BLK1	500	517	518	521	520	517	514	419	418	313	291	320	454	440	445	519	518	529	520	527	526	528	526	512	520	518	523	520	523	522	521	523	522	520	523	521	521	523	521	523	524	518	523	508	527	530	527	530	520	520	520	520						
NPRI	BLK2	502	520	520	418	350	316	313	320	290	310	290	324	330	318	323	505	522	530	523	530	527	531	529	527	518	520	523	521	522	520	524	522	521	523	521	522	521	522	521	522	522	523	525	523	520	525	509	528	528	528	528	528	528					
PCGP</																																																											

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																									
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	12	16	21	24	24	24	20	10	8	18	30	22	6	5	4	6	9	7	4	2	2	1	0	0	0	0	0	0	0	0				
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	16	18	12	22	20	30	30	29	30	30	30	30	26	17	19	27	8	13	12	7	2	0	0	0	0	0	0	0	0	0				
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	15	10	18	38	24	37	44	36	36	40	39	35	38	30	28	22	22	25	19	12	3	1	0	0	0	0	0	0	0	0	0			
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	16	9	8	14	16	19	24	27	27	47	47	45	6	6	7	5	6	5	3	2	2	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	2	8	15	10	7	9	17	10	8	17	10	26	21	11	29	11	15	13	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	2	7	18	33	32	36	44	26	49	37	37	19	50	44	44	42	39	36	27	20	13	8	3	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	1	4	15	17	17	31	36	36	41	38	32	36	41	36	50	38	25	40	37	24	18	11	4	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	3	13	11	22	17	19	30	35	47	45	44	45	45	45	24	25	40	15	21	25	17	10	4	1	0	0	0	0	0	0	0	0	0			
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	10	14	14	14	16	15	23	30	30	30	30	30	30	27	27	28	16	18	13	6	2	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	1	4	7	19	34	15	27	42	43	38	42	36	50	41	46	29	27	21	4	8	3	2	1	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	3	8	9	15	29	47	47	51	52	50	33	52	51	50	52	52	38	44	32	11	10	5	1	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	5	7	9	15	32	22	27	34	47	41	43	31	27	26	43	34	32	28	14	17	9	4	1	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	2	4	6	9	11	17	23	18	20	17	25	29	24	25	9	4	0	0	1	1	1	1	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	6	44	130	172	244	291	333	405	420	465	436	445	488	492	449	390	328	322	285	207	170	115	58	17	2	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	1	2	2	3	2	2	2	2	2	3	3	5	4	3	3	4	2	3	3	5	4	4	3	4	4	4	4	5	3	3	3	4	4	3	4	4	3	4	4	4	4	4	4	4	2	3			
PCUF	CUFK	4	4	3	4	3	2	3	3	3	4	4	5	5	2	3	3	3	3	2	4	3	2	5	3	3	2	3	5	3	3	3	4	4	4	5	4	3	5	4	2	3	4	3	4	3	2	3		
Total Co-Gen		5	6	5	7	5	4	5	5	5	6	7	8	10	6	6	6	7	5	5	7	8	6	9	6	7	6	7	9	8	6	6	7	8	8	7	9	8	6	9	8	6	7	8	7	7	7	4	6	
Total Gen		16077	15589	15306	14907	14667	14391	14177	13991	13850	13679	13622	13508	13501	13574	13668	13289	13902	14969	15523	16081	16489	16827	17055	17260	17167	16976	16858	17274	17683	17959	18028	18061	18064	18124	17761	17208	16589	16162	16370	17168	17502	17545	17469	17348	17223	17079	16944	16592	
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		
TIE-HVDC		-28	-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-28	-29	-29	-29			
TIE-PLTG		108	53	68	28	35	74	88	13	103	48	119	1	-14	40	13	15	23	60	-31	53	32	39	44	-33	34	-26	-17	-29	81	3	22	36	-33	15	11	5	0	-15	21	-68	-75	-62	-5	16	104	65	101	56	
Interconnection		80	25	38	-1	6	45	59	-16	75	20	90	-27	-42	11	-16	-161	-6	31	-61	23	3	10	14	-62	4	-55	-47	-58	52	-26	-7	7	-62	-14	-19	-24	-30	-44	-8	-97	-104	-90	-34	-12	76	36	72	27	
System Total		16011	15578	15282	14922	14675	14360	14132	14021	13789	13673	13546	13549	13557	13577	13698	13464	13922	14952	15598	16072	16500	16831	17055	17336	17177	17045	16919	17346	17642	17996	18046	18065	18136	18148	17790	17242	16629	16216	16388	17275	17616	17645	17513	17370	17157	17053	16882	16575	
SRev ST-Coal		125	127	132	380	413	420	408	410	410	396	407	623	662	630	748	763	753	391	213	132	109	121	66	60	66	64	107	96	89	99	86	73	60	63	78	66	76	82	57	49	86	69	46	78	66	59	58	70	
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	5	8	73	32	73	74	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		967	1027	1316	1451	1643	1808	2035	2260	2325	2393	2433	2310	2063	1753	1286	582	539	192	304	269	243	307	224	194	365	548	404	336	295	364	205	217	239	264	287	452	693	1090	956	355	313	509	548	451	626	839	870	868	
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	
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	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
Syncon		651	651	651	738	738	846	846	846	976	976	976	1077	1077	1077	1178	338	802	889	889	802	676	525	525	651	802	889	338	151	151	302	302	302	302	302	302	302	615	615	802	489	302	428	428	277	428	428	428	615	
Hydro		173	247	237	125	107	103	100	61	137	252	257	155	77	101	138	438	216	128	291	320	445	345	461	424	397	144	210	816	860	509	501	503	486	539	414	388	228	193	109	342	476	379	440	426	418	362	321	280	
S.Reserve Total		1916	2052	2336	2694	2901	3177	3389	3577	3848	4017	4073	4165	3879	3561	3350	2121	2310	1600	1697	1523	1473	1298	1276	1329	1630	1645	1059	1404	1403	1347	1126	1168	1161	1208	1081	1208	1612	1980	1924	1235	1177	1385	1462	1232	1538	1688	1677	1833	