

Daily System Generation Summary on Friday

Friday, April 2, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,336 MW
Distillate	0 MW
Total TNB	2,336 MW
Total IPP	16,779 MW
Total Co-Gen	0 MW
Total System	22,374 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,420	5.57 %
Gas	53,758	13.99 %
Total TNB	75,178	19.56 %
ST-Coal	214,427	55.80 %
LSS	3,158	0.82 %
Gas	91,537	23.82 %
Total IPP	309,122	80.44 %
Co-Gen	166	0.04 %
Total Co-Gen	166	0.04 %
Total Generation	384,466	100.05 %
PLTG	896	0.23 %
HVDC	-697	-0.18 %
Interconnection	199	0.05 %
Net Energy	384,267	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:	15:30:00 Hour
Total Set On Bus	19,114 MW
TNB Generation	4,405 MW
IPP Generation	13,754 MW
Spinning Reserve	951 MW
Maximum Demand	18,077 MW
Net Energy	384,267 MWH
Load Factor	88.57 %

Fuel Cost

Total Cost:	50,904,483.88 RM
Cost per Unit	12.32 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	264
Hydro	432
Syncon	387
Thermal	172
Total	1,255

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	53
SRDG	1
TJGS	215
Total TNB	269
CBPS	55
KLPP	49
NPRI	164
PGLA	108
PLPS	38
YPKA	41
Total IPP	454
Total Gas	723
Total Gas Required	723

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	16218	15511	14868	14352	14016	13737	13631	13711	13898	15561	16381	17073	17091	16778	17414	17950	17889	17437	16409	16227	17375	17215	16830	16550

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:40:43 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

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	701	702	700	704	597	600	501	476	449	450	451	491	502	502	500	501	502	523	626	688	694	692	692	693	684	696	689	693	690	694	691	693	694	693	691	652	597	658	694	691	693	692	695	693	693	693	691	694
JMAH	U002	707	707	713	705	602	499	505	485	454	453	455	502	503	503	506	503	505	523	633	698	694	696	698	694	696	697	694	696	693	694	693	697	697	696	694	655	604	660	700	695	695	695	693	696	698	697	694	698
JMHE	U002	983	980	980	910	847	849	850	854	848	850	851	846	851	852	850	852	849	915	983	981	977	977	987	981	976	983	979	978	975	984	982	977	982	983	979	978	981	980	980	982	980	979	981	980	980	981	984	980
JMJG	U001	681	682	640	596	601	609	598	597	603	599	546	505	508	511	545	550	553	658	672	678	667	671	671	671	670	675	671	675	670	668	674	672	672	671	666	675	672	678	672	671	672	673	672	676	672	667	674	672
JMJG	U002	681	682	682	682	689	682	680	668	594	595	557	500	501	499	545	553	554	627	671	672	672	674	674	671	673	673	672	673	669	674	677	675	672	676	679	672	674	671	671	676	672	673	671	677	673	673	672	672
JMJG	U003	680	679	679	673	683	680	677	675	592	596	557	512	503	506	545	545	547	572	661	672	670	672	671	671	673	671	672	671	604	579	585	640	671	596	590	594	612	625	685	666	671	665	666	671	680	669	673	669
JMJG	U004	899	899	895	897	897	897	896	864	854	854	855	854	854	854	855	856	856	854	902	901	902	902	903	902	903	903	903	904	903	901	902	902	901	901	902	903	901	900	900	901	900	900	901	902	901	902	902	902
JMJG	U005	891	894	892	866	855	842	853	854	851	851	849	851	848	853	850	851	851	853	890	892	892	890	892	891	892	892	892	891	889	892	894	892	892	891	890	891	892	890	890	892	891	895	891	890	891	895	892	892
PKLG	U003	282	222	181	155	156	157	153	156	157	156	157	156	157	157	156	157	157	156	156	160	267	283	282	281	278	279	277	277	279	280	279	280	275	200	156	198	256	277	280	278	280	277	279	279	280	281		
PKLG	U004	278	188	156	152	154	151	148	148	154	154	162	156	155	155	150	155	154	152	154	153	154	262	278	278	270	275	277	277	278	278	277	280	278	277	272	178	148	190	251	273	281	275	276	276	274	278	286	279
PKLG	U006	446	375	287	265	269	269	268	267	272	269	268	267	269	270	271	266	269	271	268	269	300	394	447	448	449	446	448	450	448	444	445	448	448	449	448	383	316	302	363	436	452	447	446	449	448	446	450	450
TBIN	U001	699	699	700	698	701	596	494	481	450	449	451	484	499	500	500	500	501	551	684	688	687	687	687	687	688	689	686	676	703	697	688	686	687	688	687	689	692	688	690	691	689	692	690	691	687	690	689	
TBIN	U002	702	699	701	703	704	602	502	495	454	454	454	488	503	503	505	504	503	535	687	687	691	692	691	693	691	690	690	691	696	693	694	691	693	690	692	693	690	684	692	691	691	694	691	690	695	692	690	699
TBIN	U004	982	984	982	965	883	854	853	854	853	854	853	851	853	853	852	853	852	866	958	983	983	982	983	983	982	983	983	982	983	983	983	983	982	982	984	984	983	982	983	982	982	983	982	983	982	983	983	
Total ST-Coal		9612	9392	9188	8971	8638	8287	7978	7874	7585	7584	7466	7463	7506	7518	7632	7645	7653	8057	8945	9118	9143	9458	9557	9545	9528	9551	9535	9535	9477	9458	9464	9516	9549	9473	9447	9145	8916	9111	9424	9524	9551	9537	9538	9549	9558	9541	9561	9560
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	
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	359	361	366	349	365	352	362	352	359	348	346	353	359	363	361	361	370	362	362	362	364	355	365	361	366	356	359	361	364	362	363	361	356	362	356	362	349	365	365	357	356	360	364	355	355	360	361	360
EMPP	BLK1	190	190	192	255	374	730	748	755	762	761	761	759	758	753	761	764	374	747	559	754	373	373	374	373	373	374	373	0	0	0	0	14	742	741	744	747	759	429	0	0	0	0	0	0	0	0	0	
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	174	173	176	180	181	182	182	376	375	375	375	376	375	376	376	375	373	376	375	374	0	0	0	0	0	0	
GLGR	GT01	69	68	69	68	67	67	67	67	68	68	65	68	69	68	68	74	101	100	101	100	102	101	100	100	100	100	100	100	102	101	100	101	100	99	79	65	67	96	100	100	100	100	101	100	101	100	101	
GLGR	GT02	67	67	68	68	67	68	67	68	67	68	67	68	67	68	67	68	74	101	101	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	78	67	68	98	100	100	100	100	100	100	100	101	100
GLGR	ST1C	72	72	72	72	72	72	72	72	72	73	72	72	72	72	72	73	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	90	83	72	72	86	91	91	91	91	91	91	91	91	
KLPP	GT13	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
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	0	20	65	149	142	140	121	111	116	151	146	146	146	147	122	0	0	
KLPP	GT15	132	137	141	134	141	133	140	136	141	136	132	141	141	144	140	144	145	142	141	140	145	140	142	146	146	139	139	146	152	149	150	145	145	152	157	159	125	132	132	155	157	158	158	158	140	160	160	
KLPP	ST17	118	53	53	50	53	49	53	49	49	50	50	53	53	54	54	54	53	53	53	53	51	51	55	55	51	51	53	53	53	57	53	53	135	131	132	120	119	119	131	131	133	133	133	127	54	59	57	
NPRI	BLK1	526	527	528	523	529	512	518	519	529	515	511	521	530	532	532	530	536	529	534	525	532	526	525	524	525	529	526	526	526	530	529	527	530	517	527	515	529	524	530	523	523	528	525	522	532	531	530	
NPRI	BLK2	524	525	525	524	530	514	518	519	532	517	514	524	533	535	533	539	534	532	539	527	529	526	521	520	526	529	525	528	526	527	530	529	526	521	529	518	526	524	526	523	529	529	526	522	528	529	528	
PCGP	PGRG	601	603	601	588	595	573	592	587	597	577	577	584	604	606	602	600	613	600	602	602	607	604	611	604	607	596	599	594	603	609	615	600	601	617	585	593	578	602	605	605	591	601	603	595	590	501	268	260
PGLA	GT11	217	217	218	214	168	163	168	164	169	163	162	164	169	193	169	169	220	217	217	217	217	217	216	216	214	214	213	215	216	218	214	211	190	166	166	163	171	170	218	217	217	216	216	217	183	216	217	
PGLA	GT1																																																

Daily MW Generation on Friday

[illegible]

Daily MW Generation on Friday

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																										
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	13	20	26	15	27	24	23	27	45	18	47	32	41	30	11	7	6	6	6	8	3	1	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	1	5	8	12	17	12	23	21	16	23	7	26	30	30	28	26	24	15	13	7	5	2	1	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	1	4	10	18	25	28	21	15	16	24	50	27	50	33	44	37	31	3	11	40	18	10	6	1	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	1	5	12	20	27	33	38	44	42	46	50	45	30	28	16	36	10	44	28	10	3	1	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	1	4	10	16	24	29	33	39	31	13	25	13	26	31	42	30	27	11	2	4	4	3	3	1	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	1	5	9	18	20	25	27	30	30	8	13	11	22	30	30	11	30	21	19	11	7	6	4	1	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	1	6	14	22	28	38	40	44	48	45	50	49	49	43	49	45	46	40	14	21	18	12	4	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	1	4	9	20	30	36	44	44	23	14	24	45	35	38	44	52	52	52	7	6	4	3	2	1	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	1	2	9	18	26	21	32	36	39	15	16	21	15	31	27	22	22	38	29	19	9	6	3	1	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	1	3	7	6	16	20	15	8	10	18	7	21	4	15	10	6	12	9	16	10	11	7	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	13	57	131	215	313	330	386	410	392	330	417	393	435	383	441	401	379	341	185	159	96	70	34	9	1	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	5	4	4	4	2	4	3	4	4	4	4	3	4	3	5	3	5	3	5	3	5	3	5	3	2	3	3	3	3	3	2	3	3	4	3	4	3	2	4	3	3	4	3	3	3	3	3	3		
PCUF	CUFK	3	3	10	13	1	3	3	4	3	3	4	2	3	4	3	3	5	4	5	2	5	6	3	1	4	3	3	3	4	4	2	4	4	3	4	0	3	4	0	3	5	3	1	3	3	2	3	3	4	
Total Co-Gen		8	7	14	17	3	7	6	8	7	7	8	6	6	7	6	7	6	9	7	9	4	10	10	6	6	7	6	5	6	7	7	4	7	7	7	6	8	3	7	9	6	3	7	6	5	7	6	7		
Total Gen		16244	15770	15534	15184	14859	14668	14348	14207	14008	13892	13720	13652	13640	13737	13707	13494	13898	14814	15547	15862	16360	16772	17005	17148	17081	16942	16821	17010	17424	17669	17935	18163	17941	17944	17493	16987	16485	16134	16161	17080	17322	17389	17183	17098	16860	16685	16494	16419	16419	
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
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-30	-30	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	
TIE-PLTG		65	74	62	67	29	69	35	33	31	57	21	52	49	55	35	14	38	46	26	-2	18	-22	-28	20	29	63	82	58	50	48	26	126	91	37	95	114	118	23	-26	-79	-14	3	8	21	68	-17	-16	40	40	
Interconnection		36	45	33	39	1	40	6	5	2	29	-7	23	19	26	6	-14	10	16	-4	-30	-11	-51	-58	-10	0	34	53	28	21	19	-4	97	62	8	66	86	87	-7	-55	-108	-42	-25	-21	-8	40	-45	-46	10	10	
System Total		16218	15735	15511	15155	14868	14638	14352	14212	14016	13873	13737	13639	13631	13721	13711	13518	13898	14808	15561	15902	16381	16833	17073	17168	17091	16918	16778	16992	17414	17661	17950	18077	17889	17946	17437	16911	16409	16152	16227	17199	17375	17425	17215	17117	16830	16740	16550	16419	16419	
SRev ST-Coal		74	168	212	352	550	720	716	759	872	873	877	874	873	872	870	870	812	390	222	232	207	114	126	143	120	136	136	194	213	207	155	122	198	134	286	406	341	206	147	120	134	133	122	113	130	110	110	111		
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	37	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		799	730	788	798	923	1029	948	976	920	1000	989	592	512	446	509	679	322	233	216	240	212	238	215	232	217	258	241	264	346	206	188	361	334	256	380	343	532	1029	859	233	239	199	316	214	274	516	605	684	684	684
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	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		802	889	889	889	889	889	889	889	889	889	889	889	825	976	926	1178	789	789	789	850	302	302	302	302	302	302	302	302	302	151	151	0	464	500	500	500	500	374	374	525	374	374	374	374	651	525	676	676	676	
Hydro		386	269	110	165	140	169	148	166	138	172	173	127	323	152	287	109	116	144	210	277	415	463	439	397	400	614	714	529	367	648	366	399	545	397	512	568	639	446	448	323	500	454	424	621	381	213	113	149	149	
S.Reserve Total		2061	2056	1999	2204	2502	2807	2701	2790	2819	2934	2928	2482	2533	2446	2594	2836	2097	1978	1605	1589	1161	1210	1070	1057	1062	1294	1393	1231	1209	1218	912	952	1567	1351	1526	1697	2077	2190	1887	1228	1233	1161	1247	1331	1419	1384	1504	1620	1620	