

Daily System Generation Summary on Friday

Friday, April 9, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,309 MW
Distillate	0 MW
Total TNB	2,309 MW
Total IPP	17,499 MW
Total Co-Gen	0 MW
Total System	23,787 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,318	4.30 %
Gas	63,618	16.77 %
Total TNB	79,936	21.07 %
ST-Coal	236,268	62.27 %
LSS	3,362	0.89 %
Gas	59,873	15.78 %
Total IPP	299,503	78.94 %
Co-Gen	196	0.05 %
Total Co-Gen	196	0.05 %
Total Generation	379,635	100.06 %
PLTG	-476	-0.13 %
HVDC	706	0.19 %
Interconnection	230	0.06 %
Net Energy	379,405	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	18,990 MW
TNB Generation	4,283 MW
IPP Generation	13,610 MW
Spinning Reserve	1,088 MW
Maximum Demand	17,887 MW
Net Energy	379,405 MWH
Load Factor	88.38 %

Fuel Cost

Total Cost:	55,849,087.40 RM
Cost per Unit	14.71 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	263
Hydro	512
Syncon	327
Thermal	300
Total	1,402

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	194
Total TNB	244
CBPS	48
NPRI	149
PGLA	9
PLPS	37
Total IPP	243
Total Gas	487
Total Gas Required	487

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	15793	15018	14366	13925	13683	13366	13542	13553	13746	15360	16272	16852	16903	16690	17148	17831	17848	17537	16394	16122	17157	17025	16586	16251

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:45:47 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	701	691	692	692	686	664	555	450	452	451	506	555	456	400	401	402	402	401	401	508	604	601	600	502	447	581	695	692	692	694	692	690	693	694	692	692	691	692	695	692	673	603	549	501	501	500	
JMAH	U002	706	702	700	696	694	692	603	505	454	457	454	455	517	560	481	402	404	404	404	398	405	506	606	605	603	506	688	703	706	704	711	707	705	704	706	704	704	694	689	696	697	692	681	602	550	503	503	505
JMHE	U001	977	984	982	982	894	900	896	898	899	849	853	850	845	852	852	845	850	904	980	981	982	982	977	975	978	982	985	981	983	980	981	981	980	978	978	977	975	981	976	983	979	982	980	977	982	979	976	
JMHE	U002	978	983	981	980	896	899	895	902	898	845	851	851	847	853	850	847	848	904	983	983	979	983	983	980	976	979	983	986	979	980	980	979	983	979	976	980	981	976	983	979	984	980	983	979	976	981	981	977
JMJG	U001	667	662	657	671	671	662	645	643	645	643	654	645	664	666	667	670	673	675	673	668	664	674	667	668	675	674	673	667	671	672	626	675	673	674	675	662	681	673	671	672	675	674	679	665	679	675	671	
JMJG	U002	668	675	671	668	676	669	646	649	643	660	642	658	663	670	674	679	672	672	679	668	675	673	672	673	675	670	676	670	676	673	677	663	677	679	669	673	684	671	672	674	662	679	672	673	672	676	673	673
JMJG	U003	662	677	686	668	668	667	643	645	643	638	654	650	667	662	671	671	666	667	678	667	677	666	672	665	677	666	657	670	668	677	662	676	671	667	667	673	679	667	672	682	668	669	668	673	667	670	673	668
JMJG	U004	897	898	897	897	896	896	895	897	890	862	855	855	855	855	853	855	854	894	901	896	895	898	897	897	896	895	896	895	896	889	889	895	895	898	895	898	895	895	894	895	892	895	896	895	894	894	894	896
JMJG	U005	891	891	890	892	884	884	884	883	880	848	853	851	691	696	782	777	801	861	891	891	892	898	895	890	892	895	891	890	889	889	889	890	892	892	892	894	890	894	889	889	892	892	892	892	888	897	892	891
PKLG	U003	277	277	279	279	279	277	275	231	156	155	155	156	157	156	155	156	155	155	155	155	154	157	155	155	148	154	154	152	202	203	204	205	204	204	204	204	204	205	263	276	276	277	269	186	150	153	153	153
PKLG	U004	277	275	270	274	277	276	274	203	159	158	155	154	156	155	155	152	153	153	154	151	153	153	153	154	150	154	151	153	151	222	209	206	205	205	206	204	206	208	259	278	281	275	274	171	148	152	152	150
PKLG	U006	170	170	169	169	191	190	215	242	276	307	325	372	417	449	448	445	450	450	445	374	274	270	266	269	267	269	268	268	327	392	446	445	449	446	449	446	448	449	450	445	447	453	449	423	362	281	267	267
TBIN	U001	703	701	698	700	699	696	648	597	601	586	548	551	603	694	653	544	551	550	551	549	549	696	691	689	691	689	692	691	690	689	687	691	688	690	692	691	691	689	689	690	690	693	691	690	688	692	692	690
TBIN	U002	700	701	702	700	699	705	650	627	601	592	547	552	608	696	676	549	556	555	552	550	554	693	692	693	691	695	689	693	691	693	696	691	692	690	690	692	691	694	690	687	691	694	693	691	692	695	689	691
TBIN	U004	982	984	984	984	924	903	902	877	854	854	853	853	853	853	853	853	906	952	983	984	983	983	986	984	983	982	983	983	983	982	982	985	983	983	983	984	982	982	983	983	983	983	982	983	985	983		
Total ST-Coal		10256	10281	10257	10252	10040	10002	9735	9379	9072	8906	8852	8904	9049	9372	9226	8845	8884	9150	9402	9320	9243	9725	9927	9901	9900	9704	9829	9996	10151	10346	10381	10330	10395	10380	10374	10389	10388	10372	10477	10513	10513	10528	10480	10120	9860	9739	9709	9691
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	219	219	219	219	219	224	219	226	221	214	221	228	223	219	220	220	220	213	362	362	356	352	359	351	368	359	366	365	364	363	362	361	361	357	362	356	361	354	363	362	363	349	364	363	363	354	355	
EMPP	BLK1	0	0	0	0	0	295	377	576	759	756	754	756	755	755	758	760	757	759	759	756	754	755	756	751	770	764	766	764	764	759	759	756	739	736	611	254	148	4	0	0	0	0	185	404	540	689	762	759
GLGR	GT01	68	69	69	69	68	67	68	68	68	68	68	68	68	68	68	67	69	68	68	68	60	69	69	68	67	67	68	68	68	101	102	100	100	100	67	67	67	67	68	101	101	99	100	100	99	100	99	100
GLGR	GT02	67	67	68	68	68	68	68	68	68	68	68	68	68	69	68	68	68	68	68	68	68	68	67	68	67	68	67	68	67	67	101	100	101	100	101	67	67	67	101	100	100	100	100	100	100	100	100	
GLGR	ST1C	72	72	72	72	72	73	72	72	72	72	72	72	72	72	72	72	72	72	72	72	73	73	73	73	73	73	72	73	90	91	91	91	91	91	75	73	72	73	90	91	91	91	91	91	91	91	92	
NPRI	BLK1	470	474	477	476	468	408	327	331	326	320	332	325	329	326	326	323	331	328	493	505	508	500	496	506	493	514	505	512	506	506	505	506	510	505	493	503	495	501	500	505	506	501	493	507	505	505	493	500
NPRI	BLK2	455	455	477	479	456	458	475	476	466	445	478	466	476	474	458	471	475	468	441	509	511	482	480	508	477	520	506	515	508	509	509	507	510	508	497	505	500	503	504	508	509	503	496	508	508	508	494	500
PCGP	PGRG	590	260	260	262	261	261	261	262	260	261	260	262	262	260	260	262	402	586	604	604	593	590	603	587	614	602	612	602	604	601	602	607	604	587	599	591	597	594	603	602	598	592	601	602	603	593	593	
PGLA	GT11	156	114	114	115	114	115	114	116	115	115	115	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PGLA	ST10	88	75	73	71	66	57	57	58	58	58	58	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT11	125	125	129	129	124	126	128	127	128	124	128	126	128	128	129	129	129	126	124	128	129	138	139	135	136	133	137	138	136	138	138	138	133	139	129	128	129	140	140	141	142	143	143	143	143	143	144	
PLPS	ST18	58	58	57	59	57	58	58	59	58	57	57	57	58	58	58	59	58	58	58	59	58	59	60	59	60	58	58	60	59	58	59	60	58	58	57	58	57	60	60	59	60	60	60	58	59	59		
SPGP	BLK1	718	719	648	499	500	363	360	361	360	359	361	360	358	359	361	361	467	719	719	719	718	719	719	720	718	718	717	720	719	717	719	718	720	719	717	720	719	719	718	719	720	718						

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
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
KNRG	HY01	36	36	36	36	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	37	37	37	37	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	36	36	36	36	36	36	36	36	37	37	38	38	23	23	24	23	24	23	23	23	23	23	23	23
KNYR	HY01	57	0	0	0	0	0	0	0	0	0	0	0	0	58	99	98	96	98	99	97	98	99	99	101
KNYR	HY02	57	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	99	97	96	98	99	96	97	99	98	102
KNYR	HY03	97	56	56	56	56	-1	-1	-1	-1	-1	-1	-1	-1	91	99	97	96	98	99	97	97	99	98	102
KNYR	HY04	58	56	56	56	56	56	57	83	58	58	57	57	63	61	58	58	85	58	56	58	71	57	58	86
LPIA	HY01	20	20	22	22	22	22	22	23	23	23	23	23	23	23	23	23	20	20	20	20	20	20	20	20
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	12	12	12	12	12	12	12	12	12
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	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	20	20	20
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	20	20	20	20	21	21
PGAU	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
PGAU	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
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
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
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
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
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
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
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
TMGR	HY01	86	86	34	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY02	45	46	46	45	45	45	45	70	47	44	46	45	46	46	45	72	45	42	44	59	45	44	49	44
TMGR	HY03	84	68	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	32	31	32	30
TMGR	HY04	85	85	34	34	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	89	88	96	86	-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		841	668	478	477	440	349	350	402	354	350	236	236	243	263	210	459	565	505	495	529	740	693	692	743
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
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
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
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
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
PCUF	CUFG	5	5	5	4	5	5	4	4	4	5	4	4	5	5	4	4	6	6	5	5	6	4	5	4

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		
PCUF	CUFK	4	3	4	3	4	4	3	4	4	4	3	4	3	3	4	2	4	4	3	4	3	4	4	3	4	5	4	3	5	3	4	4	4	2	3	3	2	4	3	5	4	5	2	3	3	3	3		
Total Co-Gen		9	8	9	7	9	9	7	8	8	9	7	8	8	8	8	6	10	10	8	9	9	8	9	7	8	9	10	9	7	11	8	9	8	9	6	7	8	5	9	7	11	8	11	6	8	8	6	8	
Total Gen		15834	15309	14982	14686	14386	14217	13965	13882	13677	13455	13356	13388	13496	13728	13508	13399	13716	14717	15347	15894	16260	16672	16916	17002	16942	16718	16704	16925	17161	17533	17828	17859	17878	17902	17571	16922	16443	16119	16153	16991	17167	17158	17030	16819	16594	16509	16294	16100	
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			
TIE-HVDC		30	30	30	30	30	31	31	30	30	29	29	30	30	30	30	29	29	31	31	29	29	31	31	0	31	31	31	30	30	31	31	31	31	31	31	31	30	30	29	29	30	30	30	30	30	30	30		
TIE-PLTG		15	-56	-63	-35	-7	-22	12	-31	-33	-32	-37	-15	-73	16	-72	-31	-57	-24	-39	-31	-39	-22	37	-47	13	12	-13	-49	-15	-92	-30	-11	3	-12	6	-36	22	11	5	-11	-16	-3	-22	27	-18	-27	17	-27	
Interconnection		45	-26	-33	-5	23	8	43	-1	-3	-3	-7	15	-43	46	-42	-1	-27	5	-10	-1	-9	7	67	-17	43	12	18	-18	16	-62	0	19	33	18	37	-6	52	41	34	19	13	27	8	58	12	4	47	3	
System Total		15793	15339	15018	14694	14366	14212	13925	13886	13683	13461	13366	13376	13542	13685	13553	13403	13746	14715	15360	15898	16272	16668	16852	17022	16903	16710	16690	16946	17148	17598	17831	17843	17848	17887	17537	16931	16394	16081	16122	16975	17157	17134	17025	16764	16586	16509	16251	16101	
SRev ST-Coal		175	150	174	179	376	423	756	832	820	985	959	911	795	632	700	764	799	725	472	504	491	368	361	385	377	376	322	307	255	247	207	242	176	190	197	180	183	202	194	158	158	143	191	344	401	351	368	387	
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		
SRev CCGT-Gas		1057	1433	1547	1835	1888	2223	2289	2268	2302	2352	2280	2301	2215	2095	2119	2107	1986	1254	949	442	255	315	308	253	328	209	274	224	246	255	171	152	138	153	211	248	298	268	277	143	146	166	217	150	153	147	362	440	
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	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		464	565	716	716	803	991	991	991	991	991	991	991	991	840	991	789	789	789	789	638	515	515	515	515	551	400	400	213	213	87	0	0	0	0	0	314	314	314	187	187	187	313	464	565	565	565	716		
Hydro		328	300	256	257	207	110	109	57	106	110	96	96	89	220	122	175	69	129	139	258	298	345	343	292	343	252	562	490	620	501	724	771	805	746	788	1001	944	617	641	807	626	625	717	398	396	367	405	254	
S.Reserve Total		2024	2448	2693	2987	3274	3747	4145	4148	4219	4438	4326	4299	4090	3787	3932	3835	3643	2897	2349	1842	1559	1543	1527	1445	1563	1388	1558	1421	1334	1216	1189	1165	1119	1089	1196	1429	1739	1401	1426	1295	1117	1121	1438	1356	1515	1430	1700	1797	