

Daily System Generation Summary on Friday

Friday, May 21, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	17,659 MW
Total Co-Gen	0 MW
Total System	23,582 MW

Generation Mix

Type	MWh	Percentage
Hydro	16,028	4.37 %
Gas	48,194	13.13 %
Total TNB	64,222	17.49 %
ST-Coal	229,279	62.46 %
LSS	1,745	0.48 %
Gas	71,921	19.59 %
Total IPP	302,945	82.52 %
Co-Gen	165	0.04 %
Total Co-Gen	165	0.04 %
Total Generation	367,332	100.06 %
PLTG	-486	-0.13 %
HVDC	720	0.20 %
Interconnection	234	0.06 %
Net Energy	367,098	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	18,215 MW
TNB Generation	3,545 MW
IPP Generation	13,328 MW
Spinning Reserve	1,334 MW
Maximum Demand	16,956 MW
Net Energy	367,098 MWH
Load Factor	90.21 %

Fuel Cost

Total Cost:	55,894,717.27 RM
Cost per Unit	15.21 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	157
Hydro	494
Syncon	513
Thermal	212
Total	1,376

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Cloudy	26

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	200
Total TNB	252
CBPS	55
NPRI	161
PLPS	53
Total IPP	268
Total Gas	520
Total Gas Required	520

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	15413	14781	14277	13741	13564	13375	13387	13299	13646	15185	16046	16461	16518	16305	16631	16893	16817	16412	15476	15552	16247	16164	15635	15237

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 4, 2021 9:58:49 AM

(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	692	693	692	693	692	650	600	554	499	450	451	453	406	403	351	299	301	314	404	453	558	601	692	693	695	682	694	691	694	692	693	693	693	692	690	691	692	693	692	693	694	687	694	693	692	651	650	652		
JMAH	U002	697	696	696	696	689	654	603	555	501	452	455	455	405	407	353	303	303	311	411	456	560	608	697	694	690	696	694	694	695	699	695	696	695	697	696	694	697	696	694	696	696	696	696	694	653	656	656			
JMHE	U001	982	980	981	929	932	932	890	890	891	887	850	846	850	850	852	851	851	848	971	981	979	979	981	980	980	978	979	980	984	978	974	980	981	976	980	975	982	980	982	984	979	977	977	981	979	982	979	981		
JMHE	U002	983	980	979	926	929	931	886	891	892	887	849	850	849	851	850	851	851	851	981	978	979	981	981	981	977	978	981	984	979	976	982	979	980	981	975	980	980	981	982	978	977	977	979	981	979	978	980			
JMJG	U001	525	494	500	499	499	497	497	492	567	649	662	666	669	667	668	670	669	665	667	668	666	666	668	668	668	667	667	667	667	668	665	662	668	669	666	666	669	662	667	668	662	668	667	671	669	671	665	670		
JMJG	U002	679	675	672	668	671	672	670	673	678	674	675	676	675	670	665	666	668	670	670	673	672	670	677	677	675	673	673	671	674	677	670	680	676	672	669	669	667	674	670	662	671	673	672	674	673	672	677	676		
JMJG	U003	667	663	662	663	667	665	669	656	665	666	662	664	665	662	660	665	663	662	667	664	660	669	662	663	660	666	662	664	666	662	667	666	671	660	665	671	665	669	665	660	667	667	667	666	665	665	664			
JMJG	U005	859	861	862	859	862	884	890	891	892	888	892	847	850	851	850	850	851	850	887	888	889	895	892	889	894	894	886	890	890	894	892	892	894	892	891	890	892	892	889	889	890	890	891	892	887	892	890	891		
PKLG	U004	176	166	155	157	155	156	154	154	155	154	155	155	155	151	153	158	155	154	184	205	209	256	274	280	278	278	274	277	285	276	279	277	276	277	274	278	277	275	274	281	275	276	274	204	157	156	157	157		
PKLG	U006	413	333	290	269	268	269	269	270	269	267	270	272	267	269	271	268	269	269	266	307	394	438	450	451	446	447	449	448	446	447	448	448	447	447	449	445	448	450	446	447	450	449	448	449	425	345	275	268		
TBIN	U001	689	690	689	689	690	690	689	688	689	690	686	690	688	690	599	599	652	689	691	691	687	692	690	689	690	688	688	689	687	689	690	689	689	691	690	689	689	690	689	688	689	691	690	689	690	688	690	688		
TBIN	U002	690	695	692	692	691	693	688	692	690	689	698	690	693	692	686	602	603	654	695	690	691	691	689	688	691	692	692	692	691	694	694	689	690	689	689	691	690	689	689	690	690	689	688	689	691	693	691	691	688	690
TBIN	U003	689	691	690	690	690	691	691	692	693	690	689	689	692	692	693	596	600	653	694	691	690	689	690	692	690	690	689	689	694	692	690	689	690	689	691	695	693	690	688	689	691	693	690	690	688	690	691	691	691	
TBIN	U004	982	983	984	933	932	932	892	894	895	893	855	854	854	854	852	854	854	853	934	982	982	987	982	984	983	983	983	983	983	982	983	983	983	984	983	982	983	982	984	983	982	984	983	982	983	981	983	983	982	982
Total ST-Coal		9723	9600	9544	9363	9367	9316	9089	8993	8975	8935	8853	8803	8720	8707	8594	8232	8237	8406	9090	9327	9620	9817	10027	10030	10020	10013	10008	10015	10042	10027	10015	10027	10032	10013	10013	10012	10025	10023	10009	10017	10018	10014	10016	9955	9875	9719	9643	9646		
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	
CBPS	BLK2	357	361	362	362	360	360	360	364	363	356	361	356	359	359	362	359	362	362	352	360	360	362	362	361	360	361	363	363	357	364	355	362	359	358	362	353	362	362	361	361	351	360	358	360	361	363	356	362		
EMPP	BLK1	735	739	746	746	747	738	738	741	744	736	732	726	749	733	733	745	744	740	722	733	735	742	724	744	735	752	752	753	736	751	742	751	744	754	744	736	743	752	748	750	734	742	729	755	746	757	738	450		
GLGR	GT01	68	68	70	68	68	67	66	68	68	68	69	68	69	68	67	68	68	105	103	104	103	105	103	104	104	79	79	82	100	101	99	100	100	89	67	67	68	68	70	101	102	100	100	85	67	68	67			
GLGR	GT02	67	67	67	68	68	68	67	68	68	68	68	68	68	68	68	68	105	104	104	104	104	104	104	104	104	80	81	82	101	101	99	100	100	88	67	68	68	68	68	101	100	101	99	84	68	68	68			
GLGR	ST1C	74	74	74	72	72	72	72	72	72	72	72	72	72	73	72	72	72	92	93	93	93	94	94	94	94	82	80	81	91	91	91	91	91	91	88	72	72	72	72	91	91	91	91	83	73	72	72			
NPRI	BLK1	516	519	520	519	520	519	513	518	517	515	515	512	520	515	511	520	520	519	506	515	519	519	515	520	520	518	516	518	512	519	511	518	515	519	515	506	514	518	518	521	508	512	508	521	513	517	512	520		
NPRI	BLK2	514	518	519	516	518	516	511	517	517	513	513	509	519	515	510	517	517	518	503	512	517	517	513	518	518	514	514	518	511	517	509	518	512	517	513	503	511	518	517	517	505	512	507	517	512	516	511	517		
PCGP	PGRG	598	601	603	602	602	602	595	602	602	599	596	593	602	599	592	603	602	603	585	595	603	602	594	608	613	613	606	602	593	602	594	603	596	603	595	585	593	602	602	605	586	594	587	601	595	599	592	603		
PLPS	GT11	134	136	131	132	133	134	132	134	133	133	134	130	133	133	129	133	135	144	140	142	143	141	138	142	143	128	126	127	127	131	126	131	130	130	130	111	113	115	115	146	141	143	141	141	144	143	143	143		
PLPS	GT12	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				
PLPS	GT13	131	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	141	144	141	145	143	143	144	108	110	112	112	140	135	139	136	0	0	0	0
PLPS	ST18	204	137	72	60	58	57	57	57	57	57	58	57	58	58	58	58	58	58	59	59	58	58	58	58	59	57	57	55	141	142	142	143	143	143	143	132	133	132	135	143	142	144	144	60	59	58	58	58		
SPGP	BLK2	0	0	0	0	0	84	199	198	199	197	200	198	199	317	499	720	716	718	720	720	719	720	719	718	719	721	720	722	721	721	723	721	723	718	719	720	719	719	719	719	719	719	720	719	721	719	720	720		
TJGS	GT1A	223	223	223	223	223	223	223	199	155	149	149	149	149	149	130	130	130	221	225	225	226	223	226</																											

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
KNRG	HY01	36	36	37	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNYR	HY01	58	58	58	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	98	98	98	98	98	98	98	98	98
KNYR	HY02	66	66	61	79	66	59	59	59	58	58	57	57	85	60	61	59	70	97	93	96	97	99	94	97
KNYR	HY03	58	58	58	58	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	98	99	98	98	99	98	99	100	100
KNYR	HY04	60	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	100	100	99	99	99	98	96	96	97
LPIA	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
LPIA	HY02	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
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	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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
SIHY	HY01	31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY02	30	30	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	30	30	31	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	1	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	81	85	44	85	42	56	44	45	41
TMGR	HY02	54	54	44	64	52	44	45	44	44	45	43	43	75	44	42	45	43	54	43	42	45	59	45	89
TMGR	HY03	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	-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	HY01	89	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	90	82	88	90	92	87	92	90	90	88
UJLI	HY02	89	92	94	94	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	92	84	90	92	95	89	94	92	91
UPIA	HY01	5	5	5	5	5	5	5	5	5	6	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		837	750	679	623	486	338	319	320	318	319	315	316	376	319	319	330	709	808	745	779	835	887	947	1050
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	1	3	4	6	16	17	15	14	18	14
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	9	19	19	22	3	9	16
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	12	17	18	27	17	22	4
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	14	17	21	23	12	22	5	8
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	12	15	24	24	21	18	13
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	8	11	13	15	24	20	22
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	14	26	35	31	34	6	5
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	10	20	30	31	32	27	37	11
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	16	16	19	20	21	24	40
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	10	13	11	13	22	19	15
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	4	4	4	4	4	13	16	20
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	14	21	23	17	2	4	4
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	8	12	26	31	26	25	24
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	12	13	10	12	12	12	14
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	4	5	9	15	24	22	13	12
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	43	79	147	218	274	300	258	286	214
PCUF	CUFG	4	3	4	3	3	3	5	4	3	3	4	5	3	3	4	4	5	4	4	4	2	3	4	3
PCUF	CUFK	3	3	3	3	1	3	3	4	5	3	4	2	4	3	4	4	3	5	4	2	4	4	3	5

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		
Total Co-Gen		7	6	7	6	4	6	6	9	9	6	7	6	9	6	9	6	9	7	6	8	8	7	7	9	8	4	7	8	6	9	7	8	10	8	5	6	6	5	5	9	5	7	7	8	6	7	5	5	
Total Gen		15405	15037	14747	14495	14281	14052	13792	13683	13571	13495	13413	13329	13384	13390	13346	13273	13690	14602	15232	15623	16048	16335	16516	16715	16544	16399	16321	16395	16594	16729	16834	16881	16774	16658	16385	15801	15483	15449	15568	16195	16302	16297	16147	15853	15620	15407	15237	15067	
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
TIE-HVDC		30	29	29	30	30	31	31	31	31	30	30	30	30	31	31	30	30	30	30	30	30	29	29	31	31	30	30	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30		
TIE-PLTG		-31	-30	-55	-25	-18	-31	27	-21	-17	11	14	27	-26	-10	22	12	20	44	25	-3	-21	-14	33	5	2	39	-7	-50	-61	-89	-83	-99	-66	-66	-51	-38	-17	-38	-8	-15	31	-57	-41	-84	-39	-19	-22	-33	
Interconnection		-1	-1	-26	5	12	-1	58	9	14	41	45	57	4	21	53	42	50	74	54	27	9	16	62	36	33	69	22	-19	-31	-59	-53	-69	-37	-36	-21	-8	13	-8	22	15	61	-28	-11	-54	-9	11	7	-3	
System Total		15413	15045	14781	14498	14277	14061	13741	13681	13564	13461	13375	13279	13387	13376	13299	13237	13646	14534	15185	15603	16046	16326	16461	16686	16518	16337	16305	16420	16631	16794	16893	16956	16817	16700	16412	15815	15476	15463	15552	16186	16247	16331	16164	15913	15635	15402	15237	15077	
SRev ST-Coal		237	282	213	375	399	451	587	597	609	587	604	654	638	651	661	834	832	767	418	368	374	321	162	159	169	176	181	174	147	162	174	162	157	176	176	177	164	166	180	172	171	175	173	182	215	315	321	311	
SRev CCGT-Gas		330	274	302	245	323	447	561	580	675	701	696	723	671	725	809	770	772	159	199	162	144	139	167	125	125	299	284	275	170	125	167	120	153	141	168	478	699	734	577	187	190	154	179	147	208	234	264	225	
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 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
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
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	-2	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
Syncon		577	764	865	865	966	1103	1254	1254	1254	1254	1254	1254	1254	1254	1254	1254	764	426	577	490	490	403	403	403	403	490	490	490	403	403	403	403	403	590	526	1052	1153	1153	1153	591	577	577	764	764	778	778	865	865	
Hydro		531	431	400	306	232	243	112	111	113	112	116	115	55	112	113	126	237	396	307	360	304	315	621	518	596	366	383	382	658	555	610	651	699	474	671	393	252	237	239	575	458	506	432	322	341	283	238	162	
S.Reserve Total		1675	1751	1780	1791	1920	2244	2514	2542	2651	2654	2670	2746	2616	2742	2837	2984	2605	1748	1501	1380	1312	1178	1353	1205	1293	1331	1338	1321	1378	1245	1354	1336	1412	1380	1541	2100	2268	2290	2149	1525	1396	1412	1548	1415	1542	1710	1788	1563	