

Daily System Generation Summary on Friday

Friday, May 28, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,339 MW
Distillate	0 MW
Total TNB	2,339 MW
Total IPP	17,164 MW
Total Co-Gen	0 MW
Total System	22,334 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,674	4.88 %
Gas	38,939	10.76 %
Total TNB	56,613	15.64 %
ST-Coal	230,507	63.70 %
LSS	3,646	1.01 %
Gas	69,473	19.20 %
Total IPP	303,626	83.90 %
Co-Gen	178	0.05 %
Total Co-Gen	178	0.05 %
Total Generation	360,417	99.60 %
PLTG	-763	-0.21 %
HVDC	-699	-0.19 %
Interconnection	-1,462	-0.40 %
Net Energy	361,879	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:	16:00:00 Hour
Total Set On Bus	18,205 MW
TNB Generation	3,281 MW
IPP Generation	13,698 MW
Spinning Reserve	1,219 MW
Maximum Demand	17,011 MW
Net Energy	361,879 MWH
Load Factor	88.64 %

Fuel Cost

Total Cost:	53,735,007.99 RM
Cost per Unit	14.91 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	285
Hydro	453
Syncon	484
Thermal	177
Total	1,399

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	194
Total TNB	244
CBPS	55
NPRI	159
PGLA	103
PLPS	64
YPKA	0
Total IPP	381
Total Gas	625
Total Gas Required	625

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	14622	13978	13660	13238	12896	12660	12756	12656	13072	14771	15416	15916	15957	15895	16526	16836	17011	16747	15896	15687	16422	16358	16179	16066

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 4, 2021 10:05:08 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	689	694	694	692	600	551	552	502	451	399	347	351	353	407	401	401	401	698	695	690	692	689	690	692	689	690	693	691	692	688	692	689	692	692	690	692	694	691	695	691	691	691	691	694	689	693	689	694	692	692	
JMAH	U002	697	698	696	695	603	555	555	504	453	409	357	353	355	408	405	405	405	691	691	700	694	695	694	697	689	696	699	699	696	696	695	694	696	692	696	699	696	695	696	702	697	692	697	695	694	695	695	696			
JMHE	U001	753	749	751	746	752	748	749	754	749	751	747	750	755	749	753	751	750	751	750	748	744	749	751	748	747	749	748	752	751	749	751	750	747	749	750	747	749	750	749	751	749	754	749	747	751	751	749	753	750	748	750
JMHE	U002	982	976	895	902	904	847	851	855	849	852	849	850	855	846	851	853	853	848	986	978	979	979	982	980	979	980	983	978	976	980	979	979	979	980	977	980	980	980	980	977	979	981	978	981	978	981	979	981			
JMJG	U001	640	643	630	638	642	633	640	631	638	643	637	632	643	645	629	631	608	600	598	596	598	587	530	514	509	509	543	616	645	643	667	666	666	660	661	657	662	661	660	660	660	660	640	638	640	641					
JMJG	U002	668	668	666	680	668	679	673	672	673	671	674	674	677	675	672	675	674	671	669	670	675	676	672	674	671	675	672	677	674	671	668	676	671	681	668	673	676	672	671	677	676	668	673	667	677	671	672	671			
JMJG	U003	609	539	552	630	667	673	669	662	667	662	664	661	667	667	666	661	671	666	668	662	667	669	662	662	661	661	662	668	667	668	660	661	666	663	665	665	667	665	666	668	667	667	662	667	666	666	663	667			
JMJG	U005	891	892	892	886	892	864	829	803	794	801	801	803	799	801	795	805	797	801	835	889	895	892	892	896	892	891	890	891	888	887	888	895	892	890	894	888	892	892	889	891	889	890	888	889	892	891	888	890			
PKLG	U003	208	148	151	152	152	153	153	153	152	153	152	153	154	154	152	153	153	159	182	218	263	278	278	279	279	275	280	277	276	277	277	275	275	278	274	278	278	278	278	277	276	279	277	277	278	277	277	277			
PKLG	U004	192	156	156	157	157	154	157	156	155	162	157	156	158	157	157	158	156	180	219	257	270	276	276	277	269	275	276	273	275	276	274	266	238	234	234	239	248	272	276	271	275	275	277	278	273	279	276				
PKLG	U006	392	301	266	272	268	272	269	269	266	272	266	272	267	269	270	267	267	299	385	440	447	449	448	450	446	446	450	449	446	450	448	445	448	440	448	448	450	447	446	445	447	446	445	447	446	448	445				
TBIN	U001	689	692	688	687	689	690	690	689	689	671	669	691	690	687	687	691	690	690	689	689	687	689	691	689	692	689	690	691	689	687	689	689	689	689	690	691	690	689	690	689	690	689	689	689	689	687	685	689			
TBIN	U002	696	693	691	692	696	693	695	693	695	679	673	694	694	696	698	693	695	693	684	694	691	694	691	692	686	694	699	690	690	694	695	700	694	691	697	690	689	694	691	692	685	693	690	692	695	696	693	694			
TBIN	U003	692	695	694	692	694	693	691	692	689	689	675	694	697	690	689	690	691	692	692	692	692	692	691	686	694	689	692	691	692	692	689	693	696	693	691	693	691	686	691	692	690	695	687	687	687	693	686	694			
TBIN	U004	982	981	952	902	903	868	854	855	851	852	852	853	853	852	853	853	853	853	853	853	915	982	984	983	981	982	980	982	982	984	983	983	984	984	983	983	984	982	983	982	983	983	983	984	984	983	983	982			
Total ST-Coal		9780	9525	9374	9423	9287	9073	9027	8890	8774	8660	8526	8581	8622	8701	8677	8688	8664	9236	9471	9683	9889	9988	9933	9917	9898	9897	9947	10030	10037	10041	10057	10068	10033	10024	10021	10021	10039	10029	10061	10077	10045	10064	10044	10036	10049	10041	10028	10045			
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			
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			
CBPS	BLK2	363	361	366	349	359	357	356	363	362	351	362	361	358	356	356	356	363	363	359	366	362	362	362	359	362	366	362	362	364	364	364	364	363	366	359	359	357	359	361	365	357	364	360	362	362	366	359	360			
GLGR	GT01	67	68	66	67	67	69	67	69	68	68	68	66	69	68	69	69	69	69	69	67	67	67	68	100	99	100	101	101	100	100	101	101	100	100	98	68	67	68	68	68	100	101	101	102	95	85	84	93			
GLGR	GT02	68	67	68	68	68	68	68	68	68	68	67	68	68	68	68	68	68	68	67	67	67	67	100	100	100	100	100	100	101	100	100	100	100	100	67	67	67	67	68	100	100	99	100	95	85	85	93				
GLGR	ST1C	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	91	91	91	91	91	91	91	91	91	91	91	91	75	73	73	72	73	91	91	91	91	83	83	85					
NPRI	BLK1	505	506	505	491	499	505	499	507	500	495	502	502	500	499	503	442	477	518	512	514	518	515	521	514	509	517	520	520	510	518	522	520	515	509	514	508	503	513	521	514	514	515	515	516	515	516	511				
NPRI	BLK2	509	508	507	493	501	507	500	509	503	499	506	505	503	499	339	334	532	528	526	527	529	528	528	527	520	523	523	520	529	530	529	527	521	520	521	515	518	511	517	524	518	518	517	528	525	529	528	523			
PCGP	PGRG	603	604	601	584	594	603	594	598	595	590	600	598	594	592	599	599	607	606	602	602	604	603	611	600	592	604	610	610	606	607	606	611	609	605	592	599	593	594	600	613	600	601	602	603	604	603	602	596			
PGLA	GT11	170	170	171	164	168	171	167	169	169	166	169	169	168	167	169	169	173	170	170	185	185	198	204	182	166	189	189	179	208	217	218	218	217	215	214	193	162	168	167	216	196	211	192	209	194	177	168	167			
PGLA	GT12	174	175	174	168	173	175	172	173	173	171	173	173	173	171	173	173	176	173	174	190	189	200	208	186	169	194	193	181	211	221	221	222	220	220	218	198	166	172	171	221	201	216	196	213	198	180	172	171			
PGLA	ST10	205	206	205	203	203	204	204	203	204	202	204	205	202	203	203	202	206	205	207	214	225	220	230	209	205	220	224	214	221	242	244	244	244	244	241	218	211	206	205	240	224	229	227	240	224	209	206	207			
PLPS	GT11	129	129	128	129	129	129	129	130	129	129	129	129	129	129	129	129	129	129	129	129	127	130	126	130	134	133	131	130	134	133	137	137	133	132	115	113	112	111	136	133	134	132	112	111	113	112	126				
PLPS	GT12	0	0	0	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	92	141	141	141	137	139	120	117	119	119	145	142	142	141	119	119	120	119	0				
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	68	144	141	143	144	144	144	144	144	133	134	132	130	129	112	108	0	0	0	0	0	0	0	0	0	0				
PLPS	ST18	56	56	56	57	56	56																																													

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
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0
HTRG	HY02	-1	66	64	64	64	-1	-1	-1	-1	-1	64	64	65	65	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36
KNRG	HY02	25	25	25	25	25	25	25	25	25	25	25	39	39	39	39	39	39	37	37	37	37	37	37	37
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36
KNYR	HY01	98	100	99	96	96	96	97	-1	-1	-1	-1	-1	-1	100	100	99	101	101	100	100	100	100	100	100
KNYR	HY02	99	100	100	97	97	97	98	97	97	97	97	59	60	59	58	81	62	70	63	72	62	98	68	60
KNYR	HY03	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	101	101	101	101	101
KNYR	HY04	66	98	96	56	57	89	60	58	57	57	58	-1	-1	-1	-1	102	102	102	102	102	102	101	101	101
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	19	19	19	19	19	19	19
LPIA	HY02	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18	18	18
MNOR	HY01	5	5	5	5	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	20	-1	-1	-1	18	-1	-1	-1	-1	20	-1	-1	-1	21	21	150	151	151	151	151	150
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21
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	50	30	30	30	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	50	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	25	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	25	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	25	25	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	-1	-1	-1	62	42	42	43	62	73	63
TMGR	HY02	51	88	86	40	51	87	43	46	43	43	47	76	43	44	48	43	89	45	51	47	56	45	77	53
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
TMGR	HY04	85	85	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	84	84	84	84	84
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
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
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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		752	778	638	567	549	499	428	349	325	325	330	262	315	296	314	408	477	700	714	844	865	843	910	954
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

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		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	15	21	27	29	30	30	30	30	29	29	30	30	30	30	30	28	23	9	9	4	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	20	68	141	214	292	351	419	453	473	482	437	480	462	457	442	462	415	350	290	239	170	110	50	14	1	0	0	0	0	0	0	0	0	0
PCUF	CUFG	5	4	3	6	3	3	2	4	3	4	3	4	2	3	3	3	4	4	5	2	4	2	4	4	4	3	4	5	4	5	5	5	4	4	4	5	4	6	5	4	6	6	6	5	3	5	4		
PCUF	CUFK	4	5	3	3	3	2	3	6	3	4	2	3	2	4	4	3	3	3	6	1	4	4	4	4	4	3	4	3	3	3	3	3	3	3	3	3	3	3	2	6	5	4	3	4	4	4			
Total Co-Gen		9	9	6	9	6	5	5	10	6	7	6	5	5	7	7	6	7	7	11	3	8	6	8	8	7	7	9	7	7	8	8	8	7	7	7	7	8	7	9	8	6	12	11	10	8	7	9	8	
Total Gen		14536	14271	13872	13719	13556	13325	13174	12991	12834	12678	12594	12583	12659	12705	12563	12618	12983	14057	14649	15018	15330	15637	15828	16009	15872	15879	15841	16163	16513	16709	16801	16880	16986	16926	16741	16264	15877	15578	15655	16443	16445	16433	16239	16157	16077	16157	15984	15822	
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		-29	-29	-29	-29	-29	-29	-28	-28	-28	-28	-29	-29	-30	-30	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-28	-28	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-30	-30	-30	-30	-30	-28	-28	-30	-30		
TIE-PLTG		-50	-68	-69	-13	-67	-53	-28	-71	-27	-47	-30	-50	-60	-50	-57	-46	-53	-41	-87	-25	-50	-46	-52	-58	-49	-30	-19	-21	24	4	0	0	9	-23	29	-3	17	-13	4	-13	59	-40	-83	-54	-68	-29	-45	13	
Interconnection		-79	-97	-98	-42	-96	-83	-57	-100	-55	-75	-59	-79	-90	-80	-86	-74	-82	-71	-116	-54	-80	-76	-81	-87	-78	-59	-47	-49	-6	-25	-29	-29	-19	-52	0	-31	-12	-42	-25	-43	29	-70	-113	-84	-96	-58	-76	-17	
System Total		14622	14375	13978	13769	13660	13416	13238	13098	12896	12760	12660	12669	12756	12792	12656	12699	13072	14135	14771	15078	15416	15719	15916	16103	15957	15945	15895	16219	16526	16741	16836	16915	17011	16984	16747	16302	15896	15627	15687	16492	16422	16509	16358	16247	16179	16221	16066	15846	
SRev ST-Coal		204	259	375	399	505	538	575	613	612	646	668	609	588	601	615	615	582	471	363	313	242	143	198	214	233	234	184	117	144	140	141	133	120	129	132	132	114	172	140	124	156	137	157	145	132	140	153	136	
SRev CCGT-Gas		855	761	866	1000	1006	972	1006	978	991	1034	988	985	1003	1019	1155	1224	953	747	481	524	503	345	338	280	356	238	222	254	207	236	167	151	164	187	238	452	543	626	479	219	250	207	254	245	299	361	395	366	
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		
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 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 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		
Syncon		864	738	825	674	825	951	951	901	1052	1052	1052	1153	876	1027	1027	1027	1027	800	800	800	800	800	674	487	487	487	487	313	126	126	252	252	252	252	439	626	965	839	839	500	500	500	500	500	651	651	651	651	
Hydro		172	172	149	371	238	62	134	263	136	136	131	98	322	190	172	178	109	108	95	237	216	238	171	314	364	429	428	491	666	642	655	556	658	671	708	398	172	175	169	283	465	545	526	503	389	238	366	280	
S.Reserve Total		2095	1930	2215	2444	2574	2523	2666	2755	2791	2868	2839	2845	2789	2837	2969	3044	2671	2126	1739	1874	1761	1526	1381	1295	1440	1388	1321	1175	1143	1144	1215	1092	1194	1239	1517	1608	1794	1812	1627	1126	1371	1389	1437	1393	1471	1390	1565	1433	