

Daily System Generation Summary on Friday

Friday, November 27, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,522 MW
Distillate	0 MW
Total TNB	2,522 MW
Total IPP	16,528 MW
Total Co-Gen	0 MW
Total System	21,873 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,305	5.82 %
Gas	33,488	9.61 %
Total TNB	53,793	15.43 %
ST-Coal	243,042	69.72 %
LSS	1,916	0.55 %
Gas	50,108	14.37 %
Total IPP	295,066	84.64 %
Co-Gen	210	0.06 %
Total Co-Gen	210	0.06 %
Total Generation	349,069	100.14 %
PLTG	-247	-0.07 %
HVDC	722	0.21 %
Interconnection	475	0.14 %
Net Energy	348,594	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	17,356 MW
TNB Generation	3,140 MW
IPP Generation	12,981 MW
Spinning Reserve	1,219 MW
Maximum Demand	16,134 MW
Net Energy	348,594 MWH
Load Factor	90.03 %

Fuel Cost

Total Cost:	40,990,270.76 RM
Cost per Unit	11.74 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	233
Hydro	418
Syncon	638
Thermal	220
Total	1,509

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	26

Gas Usage

Station	(mmcsfd)
GLGR	49
TJGS	192
Total TNB	242
CBPS	49
NPRI	157
YPKA	26
Total IPP	232
Total Gas	474
Total Gas Required	474

Alternate Fuel Usage

Station	(mmcsfd)
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	14130	13561	13096	12736	12552	12341	12437	12690	13045	14533	15284	15775	15787	15472	15600	16021	16134	15808	15184	15588	15757	15440	14817	14574

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:58:00 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

		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	693	692	693	604	600	587	502	502	499	502	503	499	501	502	504	503	502	657	703	691	695	693	693	692	691	693	692	691	694	693	695	693	692	691	694	693	692	693	693	692	692	693	692				
JMAH	U002		690	697	693	694	694	600	603	590	502	502	503	499	503	504	502	503	504	503	503	667	695	698	698	695	695	695	692	693	697	694	695	697	697	696	695	694	693	697	695	694	695	694	705	696	695	692	694	689	
JMHE	U002		901	853	849	781	775	781	779	778	781	779	780	781	781	781	775	781	896	982	978	981	981	980	979	980	979	979	981	981	980	976	981	981	974	980	973	979	978	981	980	980	981	979	980	978	977	978	980		
JMJG	U001		673	667	673	641	594	554	502	498	497	464	458	458	458	459	458	464	510	580	666	666	666	663	669	666	668	666	666	673	667	667	667	667	667	664	669	666	668	668	666	666	668	665	668	666	664	666	672		
JMJG	U002		675	673	676	650	591	544	508	498	500	479	450	448	450	449	451	502	587	668	668	671	669	668	665	665	662	665	666	662	672	670	666	669	668	667	671	669	663	664	673	666	667	667	661	673	666	673	660	673	
JMJG	U003		675	667	666	645	593	570	521	497	495	479	458	458	458	459	454	458	506	542	622	667	666	669	667	666	667	666	663	666	666	663	665	668	669	668	668	668	664	663	664	665	669	663	667	664	670	668	662	666	668
JMJG	U004		873	818	759	705	707	709	712	712	709	710	708	710	710	710	710	710	710	710	729	786	829	885	901	929	929	930	930	930	945	974	966	968	969	969	969	969	969	970	968	970	971	972	974	973	973	916	859	801	744
JMJG	U005		785	728	729	730	728	734	730	730	731	731	730	729	729	730	733	730	775	801	812	811	820	816	815	816	816	816	818	815	800	800	801	801	801	799	800	798	799	799	801	801	796	801	799	798	800	800	803	801	
PKLG	U003		280	282	282	280	282	280	280	282	280	283	282	282	282	283	283	282	283	281	281	282	282	280	279	281	280	279	279	280	280	280	281	280	281	281	282	283	281	279	280	247	202	206	269	275	279	283	283	282	
PKLG	U004		277	274	277	278	277	278	282	277	275	277	275	279	278	280	277	277	279	278	279	274	279	182	188	250	286	286	280	280	279	278	278	281	281	280	280	279	278	270	280	281	276	279	278	280	276	280	279		
PKLG	U005		471	466	466	466	468	469	466	469	466	467	466	468	468	467	466	466	466	469	472	469	464	468	468	468	469	467	463	465	466	466	467	468	468	468	468	465	466	466	466	468	467	467	468	468	467	468	468	447	
PKLG	U006		448	450	447	448	448	447	448	447	445	449	447	450	450	447	447	449	445	446	448	451	450	450	449	451	449	448	449	449	447	446	449	448	448	449	450	450	450	446	449	446	446	449	449	448	446	448	447		
TBIN	U001		691	692	692	691	690	691	690	692	689	686	692	691	690	692	691	691	692	692	691	692	693	690	691	690	690	691	689	690	691	689	700	699	692	692	690	689	690	691	691	689	687	691	690	692	691	691	690	692	
TBIN	U002		689	692	692	689	692	692	692	689	692	691	692	691	690	690	693	693	694	693	690	692	687	690	693	691	690	691	692	691	691	692	689	692	690	692	692	690	690	691	693	690	692	688	687	693	691	690	693	696	
TBIN	U003		695	691	695	694	688	696	692	690	691	691	690	692	692	690	691	694	692	688	693	691	690	689	693	689	690	692	691	692	691	687	693	688	692	690	691	689	689	693	694	688	694	691	690	694	690	693	686	691	
TBIN	U004		901	857	853	797	783	783	782	782	783	782	784	781	783	782	782	782	781	815	903	984	980	982	982	982	982	982	982	983	983	982	983	981	983	983	983	983	982	983	983	983	983	982	983	984	982	983	983	982	
Total ST-Coal			104161020010142 9881 9703 9433 9287 9218 9040 8972 8916 8917 8920 8920 8920 8932 9078 9456 9923 1043810547106081053310542106131065410643106471066110667106681067610676106621067310660106601065910656106401058610593106671067510618105371050210456																																																
Total ST-Oil			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		
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	8	60	60	59	58	58	58	60	59	58	-1	-1	
KNYR	HY02	56	60	57	56	59	59	59	58	61	60	63	62	61	81	88	83	100	88	99	85	67	97	98	97	98	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	57	55	55	54	54	53	53	54	55	54	54	100	
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	59	59	59	58	59	60	59	59	99	100	
LPIA	HY01	19	19	19	19	20	20	20	20	20	20	20	20	22	22	22	22	22	22	22	22	22	22	22	22	22	
LPIA	HY02	20	20	20	20	21	21	21	21	21	21	20	21	21	21	22	22	22	22	22	22	24	24	24	24	24	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	8	8	8	7	7	7	7	7	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	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	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	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	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	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	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	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	0	
TMGR	HY01	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	84	41	42	84	84	84	84	84	84	84	84	84	85	
TMGR	HY02	43	44	42	44	44	44	44	42	43	43	45	44	44	70	75	44	85	52	53	44	44	44	44	44	88	
TMGR	HY03	79	0	0	-1	-1	-1	-1	-1	-1	-1	-1	50	83	40	41	81	81	81	81	81	81	81	81	81	-1	
TMGR	HY04	80	31	28	0	0	0	0	0	0	0	0	0	0	0	83	83	83	83	83	83	83	83	83	83	0	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	-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	-1	
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
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	5	
Total Hydro		596	391	382	354	360	360	359	355	317	336	321	339	318	500	545	448	553	953	870	846	827	951	1173	1237	1207	
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	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	3	5	8	9	12	13	14	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	4	11	15	11	8	6	6	5	10	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	17	26	13	25	20	17	21	18	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	10	20	36	21	18	35	31	30	32	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	7	16	17	32	32	39	41	32	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	7	8	12	13	3	9	11	15	21	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	9	13	11	21	24	15	41	17	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	16	17	13	16	16	14	26	42	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	14	10	8	16	12	18	20	44	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	9	10	19	13	6	6	14	17	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	0	3	21	13	22	22	13	25	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	16	16	14	12	22	22	28	27	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	5	10	12	14	17	19	23	20	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	3	10	11	12	15	15	12	21	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	24	63	90	137	201	196	221	248	256	330	
PCUF	CUFG	5	5	4	4	5	5	3	4	5	4	5	4	5	4	5	4	5	5	3	5	4	6	5	4	5	4
PCUF	CUFK	3	5	4	4	2	3	2	3	4	2	2	3	5	3	3	3	2	3	3	4	3	3	4	3	4	6
Total Co-Gen		8	10	8	8	7	8	5	7	9	6	6	8	9	10	10	6	8	6	8	7	12	6	7	7	9	9

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 Gen		14139	13794	13562	13301	13125	12949	12766	12609	12547	12426	12387	12397	12409	12607	12654	12624	13032	13991	14529	15076	15229	15555	15754	15833	15782	15705	15487	15538	15639	15921	16061	16112	16137	16139	15850	15611	15195	15139	15643	15881	15756	15690	15454	15235	14862	14679	14620	14444	
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		29	30	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31	31	30
TIE-PLTG		-12	-41	-21	14	6	-47	8	-7	-28	21	24	20	-51	-37	-58	8	-36	-12	-26	-12	-77	-42	-42	-9	-27	-3	-8	-49	15	-13	16	-9	-20	24	19	29	-12	35	33	8	-23	6	-7	-35	21	-45	22	-15	
Interconnection		17	-11	9	44	36	-18	37	23	3	51	54	50	-20	-7	-28	38	-5	18	4	18	-47	-12	-13	21	3	28	23	-18	46	17	47	21	10	54	49	60	19	65	63	37	7	36	22	-4	52	-15	53	16	
System Total		14130	13813	13561	13265	13096	12974	12736	12593	12552	12383	12341	12355	12437	12622	12690	12594	13045	13981	14533	15066	15284	15575	15775	15820	15787	15685	15472	15564	15600	15911	16021	16098	16134	16092	15808	15558	15184	15082	15588	15852	15757	15662	15440	15247	14817	14701	14574	14435	
SRev ST-Coal		403	471	464	550	623	734	742	743	751	749	747	746	743	747	741	736	743	704	497	294	228	223	230	229	242	201	212	208	194	188	187	179	179	193	182	195	195	196	199	207	186	179	165	177	237	267	244	234	
SRev CCGT-Gas		844	770	933	905	908	815	848	934	782	851	819	830	801	786	784	731	594	450	325	315	321	169	143	164	266	331	430	417	376	264	195	137	126	122	176	216	306	340	202	138	134	138	296	298	470	601	616	607	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	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		1155	1242	1242	1330	1330	1330	1330	1330	1330	1179	1180	1179	1330	1155	1155	1004	953	766	953	953	953	766	766	640	640	766	802	803	802	640	338	302	302	302	489	716	968	903	615	428	428	428	615	766	1054	1155	1155	1092	
Hydro		146	177	186	127	122	122	123	127	116	248	112	245	115	108	63	311	257	328	224	248	267	330	308	370	400	401	470	286	317	293	540	537	613	612	601	460	298	357	493	540	614	533	497	396	252	118	132	248	
S.Reserve Total		2548	2660	2825	2912	2983	3001	3043	3134	2979	3027	2858	3000	2989	2796	2743	2782	2547	2248	1999	1810	1769	1488	1447	1403	1548	1699	1914	1714	1689	1385	1260	1155	1220	1229	1448	1612	1767	1796	1509	1313	1362	1278	1573	1637	2013	2141	2147	2181	