

Daily System Generation Summary on Wednesday

Wednesday, September 16, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,397 MW
Distillate	0 MW
Total TNB	2,397 MW
Total IPP	16,103 MW
Total Co-Gen	0 MW
Total System	21,323 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,754	7.23 %
Gas	27,327	8.69 %
Total TNB	50,081	15.92 %
ST-Coal	210,027	66.76 %
LSS	2,584	0.82 %
Gas	50,409	16.02 %
Total IPP	263,020	83.61 %
Co-Gen	167	0.05 %
Total Co-Gen	167	0.05 %
Total Generation	313,268	99.58 %
PLTG	-608	-0.19 %
HVDC	-702	-0.22 %
Interconnection	-1,310	-0.42 %
Net Energy	314,578	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:	20:30:00 Hour
Total Set On Bus	16,346 MW
TNB Generation	3,027 MW
IPP Generation	12,008 MW
Spinning Reserve	1,300 MW
Maximum Demand	15,103 MW
Net Energy	314,578 MWH
Load Factor	86.79 %

Fuel Cost

Total Cost:	41,981,538.97 RM
Cost per Unit	13.42 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,054
Hydro	240
Syncon	841
Thermal	353
Total	2,488

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	170

Total TNB 198

CBPS	43
NPRI	128
PGLA	51
PLPS	49
YPKA	1

Total IPP 272

Total Gas 470

Total Gas Required 470

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	14519	13781	13264	12789	12397	12165	12110	11824	11076	11489	12038	12490	12601	12582	12911	13065	13244	13222	13126	13888	15082	15069	14869	14664

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 5, 2020 2:04:42 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

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	696	693	692	693	692	693	694	695	692	695	693	692	694	693	687	694	693	695	695	693	694	692	693	693	694
JMHE	U002	907	902	897	847	836	777	786	780	777	780	780	781	783	782	778	780	778	782	782	780	775	780	776	779	781
JMJG	U001	672	669	675	673	671	675	671	673	672	671	672	673	674	671	679	672	672	673	671	672	672	673	672	673	670
JMJG	U002	672	668	673	668	671	673	671	669	676	671	683	671	671	669	675	683	668	679	672	673	671	669	673	673	670
JMJG	U003	670	665	668	667	668	667	665	668	665	668	662	667	666	667	666	667	666	668	668	667	666	667	671	668	670
JMJG	U004	962	902	904	854	846	787	786	789	786	789	788	788	786	791	789	789	788	787	787	788	786	787	789	834	835
JMJG	U005	732	729	722	733	725	733	733	733	727	732	727	728	726	725	725	724	715	719	725	728	729	722	716	724	730
PKLG	U003	281	282	281	281	280	279	281	281	278	279	279	281	278	282	282	282	276	256	272	281	280	279	279	280	279
PKLG	U004	276	268	277	276	276	271	276	276	273	276	275	274	279	276	271	252	270	293	281	280	281	279	278	279	278
PKLG	U005	462	470	466	466	464	467	468	466	467	468	466	466	468	467	470	454	412	405	408	440	467	467	456	471	466
PKLG	U006	448	448	449	449	451	454	449	449	449	448	445	448	446	446	450	449	446	448	448	448	448	448	448	446	446
TBIN	U001	690	690	689	690	689	691	691	692	689	690	690	694	691	692	691	688	673	690	689	688	686	687	689	687	682
TBIN	U003	692	693	692	690	690	694	697	693	691	692	693	691	691	693	691	692	662	693	690	693	691	689	691	690	696
TBIN	U004	969	902	901	853	840	782	783	782	783	783	783	782	783	783	782	783	783	782	783	783	832	833	831	833	833
Total ST-Coal		9129	8981	8986	8840	8799	8643	8651	8646	8631	8638	8644	8632	8637	8638	8644	8543	8374	8332	8345	8403	8541	8617	8641	8611	8624
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
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
CBPS	BLK2	357	362	359	360	244	221	222	217	215	224	218	225	217	215	223	224	222	222	223	219	215	224	224	216	223
GLGR	GT02	95	95	95	95	95	96	95	95	96	95	95	95	95	95	95	95	95	95	95	96	95	94	95	95	95
GLGR	ST1C	40	40	40	40	40	40	40	40	40	40	39	40	40	40	39	39	40	40	40	40	39	40	40	40	40
NPRI	BLK1	500	509	506	499	508	502	449	322	317	330	321	330	322	316	326	310	302	330	330	329	325	326	330	322	320
NPRI	BLK2	500	511	507	500	511	504	358	369	383	417	375	389	326	319	330	314	307	338	395	340	360	509	400	420	324
PCGP	PGRG	589	602	598	589	603	591	603	592	586	401	402	402	400	375	182	181	182	182	182	181	181	182	302	303	302
PGLA	GT11	174	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	GT12	177	169	164	154	158	155	157	155	154	158	155	159	156	153	156	151	147	159	158	160	157	157	159	155	156
PGLA	ST10	203	141	93	91	91	91	90	90	91	91	91	91	89	89	90	89	87	91	90	90	90	91	91	91	91
PLPS	GT11	126	129	129	128	128	128	128	128	128	128	128	129	128	128	128	129	128	129	128	129	129	129	129	129	129
PLPS	GT12	26	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	0	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	ST18	107	58	59	58	58	58	58	58	58	57	58	58	58	58	57	57	57	58	58	58	58	58	57	59	57
TJGS	GT1A	184	201	205	185	158	163	138	139	135	155	135	141	140	134	135	126	128	138	136	137	136	136	130	137	140
TJGS	GT1B	179	189	201	176	150	151	131	128	125	145	131	130	135	123	127	116	119	128	124	126	127	129	129	125	132
TJGS	ST1C	205	206	217	207	178	198	172	175	175	172	175	172	169	169	169	162	169	169	172	172	172	172	172	172	172
TJGS	GT2A	214	178	184	170	127	127	127	130	128	128	128	128	128	128	127	127	128	128	128	129	129	129	129	129	129
TJGS	GT2B	210	177	182	165	126	123	125	126	123	123	125	125	125	124	124	124	124	125	124	125	123	123	123	123	125
TJGS	ST2C	258	248	237	235	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
YPKA	GT12	98	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPKA	ST10	45	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 CCGT-Gas		4287	4044	3776	3652	3375	3348	3093	2961	2956	2865	2776	2817	2730	2667	2511	2435	2410	2530	2581	2531	2544	2696	2712	2720	2607
Total 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
BSIA	HY01	21	22	22	22	21	21	21	22	13	13	13	13	13	0	0	0	11	11	11	21	20	21	20	20	20
BSIA	HY02	23	23	23	22	23	23	22	22	12	12	12	13	12	0	0	0	0	0	0	0	22	22	22	22	22
BSIA	HY03	23	23	23	23	24	23	23	23	13	13	13	13	13	12	11	12	12	12	12	21	21	21	21	21	21
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY02	9	9	9	9	9	8	9	9	9	9	9	9	8	9	9	9	8	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	8	9	9	9	9	9	9	9	9	9	9	9	8	9	9	9	9	9	9	9	9
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	7

Daily MW Generation on Wednesday

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	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
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	97	97	97	97	99	99	97	97	97	97	97	96	98	0	0	0	60	97	97	97	98	99	98	100
KNYR	HY02	97	97	97	97	99	99	97	97	98	97	97	98	97	99	99	99	99	97	98	98	99	99	99	99
KNYR	HY03	97	97	97	97	99	99	97	97	97	97	97	96	98	0	0	0	99	98	99	99	100	100	100	100
KNYR	HY04	97	97	97	97	99	99	97	98	97	97	97	98	97	96	99	55	52	59	58	99	98	98	99	100
LPIA	HY01	23	23	23	23	23	23	23	23	23	21	22	22	22	22	22	22	22	22	22	22	22	22	22	21
LPIA	HY02	23	23	23	23	23	23	23	23	23	22	22	20	22	22	21	21	21	21	21	21	21	21	21	21
MNOR	HY01	3	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	3	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1
PGAU	HY04	20	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	30	30	30	51	51	51
SIHY	HY02	30	30	30	30	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	30	30	30	30	50	50	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	84	84	84	84	85	84	85	85	42	-1	-1	-1	-1	-1	-1	-1	6	34	84	84	84	84	84	84
TMGR	HY02	88	89	89	88	89	89	89	89	41	43	42	43	41	44	40	37	84	33	33	33	33	89	88	89
TMGR	HY03	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	86	-1	-1	32	32	31	84	32
TMGR	HY04	79	81	81	79	81	80	81	80	38	41	39	41	40	38	-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	-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		1066	967	967	963	1015	1012	906	907	742	725	700	703	699	707	602	277	246	336	363	552	604	717	778	888
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
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
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	4	5	4	3	4	3	5	4	3	4	3	4	3	3	3	4	5	4	3	3	3	2	4	4
PCUF	CUFK	4	3	3	4	3	3	5	2	3	3	3	3	3	3	4	3	4	4	3	3	3	4	3	3

Daily MW Generation on Wednesday

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		8	8	7	7	7	6	10	6	6	7	6	7	6	7	6	8	5	7	9	8	7	5	6	7	4	8	8	6	7	8	5	5	7	9	7	6	8	8	7	11	6	6	7	7	6	9			
Total Gen		14490	14000	13736	13462	13196	13009	12660	12520	12335	12235	12126	12159	12072	12019	11763	11268	11073	11284	11415	11663	11950	12298	12415	12519	12541	12532	12536	12757	12830	12999	13001	13144	13176	13300	13158	13165	13097	13199	13861	14834	15024	15046	15018	15011	14758	14794	14592	14258	
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	-29	-29	-29	-29	-30	-30	-29	-29	-29	-28	-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-29	-29	-30	-30	-30	-29	-29	-29	-29	-29	-30	-30	-30	-29	-29	-29	-29	-29	-29			
TIE-PLTG		7	-13	-10	40	-33	6	-93	-60	-27	-83	-4	-38	-3	11	-25	-15	33	-14	-39	-57	-52	-30	-39	-8	-24	-26	-10	-41	-45	-18	-29	3	-30	2	-26	-73	6	-25	6	7	-25	-24	-18	-40	-78	-51	-39	-69	
Interconnection		-23	-42	-39	11	-62	-22	-123	-89	-56	-112	-33	-67	-32	-17	-55	-45	3	-44	-68	-86	-81	-59	-68	-37	-54	-55	-40	-71	-75	-48	-58	-27	-60	-27	-56	-103	-23	-54	-24	-23	-55	-54	-48	-69	-107	-80	-68	-98	
System Total		14519	14048	13781	13457	13264	13037	12789	12615	12397	12353	12165	12232	12110	12042	11824	11319	11076	11334	11489	11755	12038	12364	12490	12563	12601	12593	12582	12834	12911	13053	13065	13177	13244	13335	13222	13276	13126	13259	13888	14860	15082	15103	15069	15083	14869	14878	14664	14360	
SRev ST-Coal		186	325	324	372	395	370	372	375	386	383	375	387	384	387	373	387	504	534	521	467	469	386	365	395	383	366	381	367	373	368	380	376	380	394	389	384	389	383	397	225	216	222	244	211	176	226	245	226	
SRev CCGT-Gas		674	636	414	538	815	842	1097	1229	1234	1325	1414	1373	1460	1523	1679	1755	1780	1660	1609	1659	1646	1494	1478	1470	1583	1534	1544	1436	1342	1221	1127	1185	1155	971	1077	981	984	981	592	435	181	238	197	147	250	168	353	522	
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	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		823	823	953	953	953	953	953	953	889	1040	1040	1040	889	1127	1077	1228	1228	1228	1215	1215	1040	953	953	953	802	953	953	953	802	953	802	953	802	953	953	953	953	953	953	766	489	489	302	302	489	489	651	802	651
Hydro		238	100	100	104	52	55	61	60	220	301	175	172	176	319	138	313	193	133	207	131	158	244	270	160	60	295	164	66	63	212	81	213	55	55	55	72	77	76	233	365	437	543	585	428	563	307	183	328	
S.Reserve Total		1921	1884	1791	1967	2215	2220	2483	2617	2798	2903	3009	2977	3065	3123	3322	3537	3710	3560	3570	3477	3493	3169	3071	2983	2984	3002	3047	2827	2736	2608	2541	2576	2543	2373	2474	2390	2403	2393	1988	1514	1323	1305	1328	1275	1478	1352	1583	1777	