

Daily System Generation Summary on Wednesday

Wednesday, September 29, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,237 MW
Distillate	0 MW
Total TNB	2,237 MW
Total IPP	17,890 MW
Total Co-Gen	0 MW
Total System	23,330 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,293	5.16 %
Gas	37,041	10.46 %
Total TNB	55,334	15.62 %
ST-Coal	224,736	63.44 %
LSS	2,924	0.83 %
Gas	69,235	19.54 %
Total IPP	296,895	83.81 %
Co-Gen	1,157	0.33 %
Total Co-Gen	1,157	0.33 %
Total Generation	353,386	99.75 %
PLTG	-181	-0.05 %
HVDC	-696	-0.20 %
Interconnection	-877	-0.25 %
Net Energy	354,263	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:	14:30:00 Hour
Total Set On Bus	17,854 MW
TNB Generation	2,576 MW
IPP Generation	13,560 MW
Spinning Reserve	1,675 MW
Maximum Demand	16,289 MW
Net Energy	354,263 MWH
Load Factor	90.62 %

Fuel Cost

Total Cost:	56,367,545.71 RM
Cost per Unit	15.95 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	461
Hydro	200
Syncon	659
Thermal	335
Total	1,655

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	139

Total TNB 167

CBPS	51
NPRI	156
PGLA	104
PLPS	62
SGB3	30

Total IPP 403

Total Gas 570

Total Gas Required 570

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	14426	13829	13275	12850	12618	12496	12585	12766	13179	14919	15811	16159	16130	15727	16080	16283	16283	15888	15292	15470	16081	15676	15213	14894

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:37:09 AM

(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	651	650	652	652	653	550	494	450	452	451	453	451	452	453	504	503	571	691	690	692	694	691	692	692	693	694	692	693	691	693	691	693	693	692	690	690	690	691	693	692	692								
JMAH	U002	651	655	655	657	655	554	496	453	456	455	457	457	454	450	508	505	568	696	691	698	698	692	695	689	695	695	698	694	697	695	696	697	696	699	693	696	696	696	695	693	694	696	697	696	696	691			
JMHE	U001	900	901	894	839	848	845	794	798	798	802	802	799	801	797	798	800	799	800	979	977	981	978	975	980	981	977	979	980	981	978	981	978	979	979	977	978	979	978	982	981	982	982	979	949	949	950			
JMHE	U002	901	900	897	849	852	844	795	802	800	798	803	800	798	795	800	800	800	800	944	980	979	978	976	979	980	980	979	980	980	980	980	980	979	980	979	977	980	979	980	980	979	984	982	978	949	949	950		
JMJG	U001	480	476	478	478	478	507	505	517	517	514	514	517	519	520	539	538	535	541	534	538	536	544	532	540	541	536	536	536	536	536	593	597	596	598	596	596	557	557	634	662	661	667	662	672	664	666	666	667	
JMJG	U002	483	479	469	469	469	498	504	516	516	519	520	520	519	523	540	541	538	538	536	541	537	540	539	539	538	539	539	533	540	540	598	598	601	595	597	597	560	553	612	671	668	676	674	673	673	674	676	672	
JMJG	U003	475	493	503	508	508	505	534	519	512	515	516	516	515	513	540	525	541	531	536	536	539	539	535	535	535	531	541	535	510	525	523	518	521	522	516	516	516	524	523	525	516	524	519	528	513	525	523	553	
JMJG	U004	914	903	905	854	856	856	838	808	809	809	809	810	808	809	808	808	863	917	975	982	979	982	981	980	979	981	977	979	981	978	977	980	978	978	979	979	977	983	975	977	977	977	977	952	952	952			
PKLG	U005	269	266	269	268	268	268	267	270	269	272	269	268	269	268	271	269	269	271	268	269	269	328	417	424	427	424	423	424	423	424	426	353	270	263	273	275	275	271	273	273	272	273	273	275	273	275	276		
PKLG	U006	442	446	445	443	442	441	425	361	357	358	359	358	358	366	438	442	446	441	444	442	442	445	440	442	442	443	444	445	445	443	443	444	443	445	443	445	442	445	445	442	443	444	443	442	440	442	442	442	
TBIN	U001	647	648	649	649	650	650	649	649	649	649	648	650	648	649	647	649	667	689	687	689	689	687	686	686	687	687	688	688	691	687	689	686	689	689	686	689	688	687	687	690	687	687	689	687	688	689	689	688	
TBIN	U002	650	651	653	653	656	650	650	651	653	653	653	652	652	650	655	650	647	689	693	695	692	693	693	696	691	699	695	693	692	692	692	694	696	690	693	695	692	693	689	692	693	692	691	691	692	691	693	695	
TBIN	U003	651	651	651	653	655	653	652	652	652	654	653	652	656	654	657	652	661	693	692	692	692	686	691	689	690	688	687	691	689	689	689	689	689	694	692	690	689	690	689	690	690	693	689	689	691	690	689	690	
TBIN	U004	903	903	901	854	854	855	824	803	804	802	803	802	802	801	803	804	802	836	926	981	982	982	983	981	983	983	982	984	982	980	982	984	984	984	983	983	984	981	982	983	981	982	982	983	980	982	952	952	951
Total ST-Coal		9017	9022	9021	8826	8844	8676	8427	8249	8244	8251	8259	8252	8251	8248	8508	8486	8652	9079	9537	9705	9714	9762	9836	9853	9863	9855	9864	9852	9836	9844	9960	9886	9824	9803	9798	9810	9722	9725	9859	9953	9938	9957	9953	9964	9938	9841	9843	9869	
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	334	290	287	331	220	257	258	271	222	219	213	227	246	289	222	218	254	259	287	334	364	370	355	367	362	362	343	361	365	366	366	366	366	366	366	366	318	342	364	364	365	364	350	344	365	355	346	226	218
GLGR	GT01	95	95	95	95	95	97	95	95	96	96	96	97	96	95	95	95	96	97	95	94	97	96	95	95	94	94	95	97	96	94	96	94	96	94	95	94	96	96	95	96	95	95	96	94	94	94	95		
GLGR	ST1C	41	40	41	40	40	42	40	40	42	40	40	40	41	41	41	41	41	41	41	40	40	41	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41		
NPRI	BLK1	526	511	512	525	524	527	526	527	524	525	517	519	528	525	516	517	519	525	516	515	514	518	509	516	515	515	515	515	515	517	516	513	517	516	517	516	517	517	517	515	516	518	517	513	513	512	515	487	
NPRI	BLK2	528	496	500	526	526	528	527	529	527	526	500	530	525	529	518	517	522	534	517	510	519	529	522	514	518	519	519	520	521	521	518	517	519	518	517	519	520	512	516	517	517	515	500	518	515	516	516	496	
PCGP	PGRG	602	578	301	262	262	262	262	265	262	261	260	264	262	266	261	263	265	415	603	593	604	605	593	603	603	603	604	603	604	603	600	606	602	603	602	603	604	602	604	603	601	598	599	604	599	596	602	595	
PGLA	GT11	169	164	164	169	168	169	169	170	169	169	167	169	169	171	169	170	171	171	169	166	189	219	216	217	197	169	169	169	188	188	170	170	191	188	169	169	170	169	180	218	217	217	187	171	170	170	171	169	
PGLA	GT12	173	168	169	173	173	174	172	175	173	172	171	174	174	173	173	174	176	172	170	192	224	219	222	200	172	173	173	191	191	174	174	196	193	173	171	173	172	184	222	221	220	191	175	173	174	175	173		
PGLA	ST10	204	201	202	203	203	205	204	206	204	203	201	203	204	206	204	204	205	206	206	204	215	240	239	240	234	205	205	206	218	218	205	207	213	219	205	205	205	205	207	240	239	238	227	206	206	206	206	205	
PLPS	GT11	65	62	62	66	66	69	65	67	66	65	62	65	66	67	66	69	73	73	68	112	115	117	146	118	116	116	113	116	115	116	115	114	116	115	116	112	112	111	111	111	112	126	128	128	129	128	128		
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	0	0	0	70	121	120	120	120	119	120	119	120	118	62	0	0	0	0	0			
PLPS	GT13	64	60	60	63	64	67	64	65	63	64	60	64	65	65	64	64	68	68	64	105	112	115	143	112	112	112	112	112	113	112	112	111	113	112	110	112	119	120	119	118	62	0	0	0	0	0	0	0	
PLPS	ST18	88	86	87	89	89	89	90	94	90	90	86	89	90	94	90	91	93	93	92	118	132	131	143	132	132	131	132	132	132	132	197	196	196	195	194	194	185	130	130	130	131	131	131	124	57	60	59	58	56
SGB3	GT31	110	106	106	110	110	113	110	112	110	110	106	110	110	111	111	111	113	114	110	106	110	112	111	111	111	111	111	111	111	110	110	110	111	111	111	111	110	1											

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HTRG	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
KNRG	HY01	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
KNRG	HY02	23	23	23	23	23	24	23	22	22	22	23	22	22	22	22	22	22	22	22	22	22	22	22	22
KNRG	HY03	22	21	21	22	21	22	22	22	22	22	22	22	21	35	35	35	35	35	35	35	35	35	35	35
KNYR	HY01	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
KNYR	HY03	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
KNYR	HY04	97	97	96	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
LPIA	HY01	22	22	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	23	23	23	23
LPIA	HY02	19	19	19	19	19	19	18	18	18	18	18	18	18	18	18	18	18	18	18	20	21	22	22	23
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	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	30	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	16	16	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	16	16	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	25	25	25	25	25	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	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	45	43	44	45	46	88	88	88	87	53	44	88	76	88	88	88	88	44	55	86	42	45	51	83
TMGR	HY03	0	0	0	0	0	0	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	34	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	95	90	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	94	85	87	95	92	96	94	94	94	89	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPIA	HY02	2	2	1	1	1	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		746	699	698	709	706	638	634	632	680	626	611	538	525	538	526	524	671	693	666	532	643	761	833	851
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
TBLS	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	25	25	25	24	24	25	25	25	26	24	23	24	24	24	25	26	24	23	22	21	21	24	21	20
PCUF	CUFK	26	26	25	27	28	26	25	26	25	26	28	26	29	26	25	27	26	24	26	27	26	25	26	25
Total Co-Gen		51	51	50	51	52	51	50	51	51	50	53	50	50	53	50	49	46	47	48	50	46	46	45	47

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 Gen		14379	14089	13779	13438	13242	13056	12788	12665	12582	12523	12458	12461	12485	12604	12682	12686	13135	14193	14870	15276	15703	15954	16130	16245	16107	15884	15700	15897	16009	16179	16221	16248	16260	16280	15933	15561	15292	15133	15502	16144	16055	15912	15654	15519	15218	14983	14868	14582	
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	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	
TIE-PLTG		-15	43	-18	-2	-1	-14	-30	-51	-4	-34	-5	-77	-69	0	-51	-38	-11	-33	-16	-26	-76	-40	3	-3	9	-17	5	-66	-39	-79	-30	4	9	32	81	20	36	6	68	31	10	51	13	-7	42	10	10	4	
Interconnection		-44	15	-47	-32	-30	-43	-59	-80	-33	-63	-35	-107	-97	-28	-80	-67	-40	-62	-45	-55	-104	-69	-26	-32	-20	-46	-24	-95	-68	-107	-59	-26	-20	3	52	-8	7	-23	39	2	-19	23	-15	-35	12	-20	-19	-26	
System Total		14426	14077	13829	13473	13275	13102	12850	12748	12618	12589	12496	12571	12585	12635	12766	12757	13179	14259	14919	15335	15811	16027	16159	16280	16130	15933	15727	15995	16080	16289	16283	16277	16283	16280	15888	15576	15292	15163	15470	16149	16081	15896	15676	15561	15213	15010	14894	14615	
SRev ST-Coal		899	895	892	892	888	944	965	990	984	983	983	984	983	987	941	947	920	700	545	388	375	397	396	389	379	379	380	380	378	321	320	331	313	323	338	328	340	326	317	232	246	227	232	220	248	344	344	389	
SRev CCGT-Gas		788	1036	1343	1501	1713	1662	1676	1620	1746	1757	1816	1732	1697	1585	1764	1758	1665	1106	926	605	370	207	291	237	311	645	749	568	524	463	569	514	395	368	562	823	763	811	569	253	293	405	559	591	577	695	856	929	
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		551	638	638	638	638	638	638	638	487	638	638	738	738	738	738	551	400	638	825	825	638	638	638	825	825	825	825	825	825	674	638	638	638	451	451	451	638	825	674	638	638	638	638	638	638	638	551	400	
Hydro		370	306	307	296	299	192	189	191	294	197	212	99	112	99	110	112	152	281	156	103	92	321	299	281	192	125	189	121	177	222	208	122	135	212	277	345	223	129	273	212	246	298	187	107	183	176	141	320	
S.Reserve Total		2608	2875	3180	3327	3538	3436	3475	3446	3518	3582	3656	3560	3537	3416	3560	3562	3288	2487	2265	1921	1662	1563	1624	1545	1707	1974	2143	1894	1904	1680	1735	1605	1481	1354	1628	1947	1964	2091	1833	1335	1423	1568	1616	1556	1646	1880	1919	2038	