

Daily System Generation Summary on Friday

Friday, December 27, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,317 MW
Distillate	0 MW
Total TNB	2,317 MW
Total IPP	17,556 MW
Total Co-Gen	0 MW
Total System	22,661 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,723	5.07 %
Gas	31,716	9.07 %
Total TNB	49,439	14.13 %
ST-Coal	230,245	65.82 %
LSS	2,645	0.76 %
Gas	66,207	18.93 %
Total IPP	299,097	85.50 %
Co-Gen	206	0.06 %
Total Co-Gen	206	0.06 %
Total Generation	348,742	99.69 %
PLTG	-369	-0.11 %
HVDC	-702	-0.20 %
Interconnection	-1,071	-0.31 %
Net Energy	349,813	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	17,635 MW
TNB Generation	2,906 MW
IPP Generation	13,485 MW
Spinning Reserve	1,235 MW
Maximum Demand	16,443 MW
Net Energy	349,813 MWH
Load Factor	88.64 %

Fuel Cost

Total Cost:	56,171,347.72 RM
Cost per Unit	16.09 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	305
Hydro	346
Syncon	791
Thermal	238
Total	1,680

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	195
Total TNB	223
CBPS	49
NPRI	142
PGLA	51
PKLG	3
PLPS	78
SKSP	48
YPKA	1
Total IPP	372
Total Gas	595
Total Gas Required	595

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	14198	13602	12996	12630	12507	12257	12281	12504	12806	14458	15155	15715	15814	15447	15623	16339	16443	16175	15255	15239	16049	15749	15348	14995

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, January 05, 2020 10:44:30 AM
(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

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	693	691	694	694	692	695	689	695	692	694	693	692	698	693	693	692	695	691	692	692	693	691	692	696	691	692	694	691	692
JMAH	U002	692	691	697	694	694	694	694	696	693	691	695	694	694	695	693	693	698	693	694	695	694	694	696	696	693	693	694	694	693
JMHE	U001	945	773	785	781	777	780	778	785	781	781	780	781	779	780	781	778	868	859	900	898	950	944	946	950	953	948	950	954	983
JMHE	U002	798	797	785	781	779	780	779	786	780	780	782	781	778	782	781	778	867	861	897	896	948	944	948	955	953	951	949	955	977
JMIG	U001	677	677	678	679	678	675	675	673	678	677	680	678	678	673	675	677	677	673	675	676	672	679	678	672	677	679	677	671	674
JMIG	U004	950	946	900	813	789	785	788	785	788	787	786	787	791	786	785	786	788	808	952	977	976	975	974	974	976	976	977	973	976
JMIG	U005	977	975	900	776	781	771	771	711	694	775	779	780	776	782	777	783	780	817	904	959	978	977	975	977	977	975	979	975	979
PKLG	U003	286	286	286	285	282	280	278	281	281	231	150	151	154	152	155	189	294	287	284	282	281	279	282	283	282	304	148	147	
PKLG	U004	280	281	283	281	281	280	279	279	279	232	143	144	150	151	150	187	251	280	283	281	280	280	280	280	280	280	280	280	278
PKLG	U005	468	469	468	466	465	468	445	368	285	269	269	270	269	270	302	394	461	468	470	470	468	472	467	466	465	470	468	469	466
TBIN	U001	691	690	691	692	689	690	689	690	688	693	689	692	691	691	690	692	690	689	690	690	691	690	690	690	689	690	689	691	690
TBIN	U002	691	691	693	693	685	690	691	691	693	690	693	690	693	692	691	696	689	696	695	689	691	690	689	691	692	693	687	691	689
TBIN	U003	688	690	690	649	687	690	690	691	690	689	690	691	690	690	690	690	691	691	691	692	682	689	689	687	689	691	693	688	690
TBIN	U004	982	981	907	819	782	782	783	782	784	782	782	782	783	782	783	784	782	859	947	982	981	980	982	981	981	983	984	983	984
Total ST-Coal		9818	9638	9457	9103	9061	9060	9029	8913	8806	8771	8611	8613	8623	8619	8614	8735	8985	9118	9625	9769	9900	9884	9995	9979	9988	10028	9875	9872	9856
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
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
CBPS	BLK2	358	215	222	222	215	219	219	217	224	213	220	217	223	214	221	220	222	358	352	353	359	360	360	357	357	357	353	358	359
GLGR	GT02	96	96	96	97	97	96	96	96	96	97	96	96	96	97	96	96	97	98	97	97	97	101	97	97	97	98	97	97	106
GLGR	ST1C	38	38	38	38	37	38	38	37	37	37	38	37	37	37	37	37	38	38	38	38	39	38	39	39	39	39	39	44	46
NPRI	BLK1	426	486	483	525	475	440	388	353	401	342	384	344	381	490	526	493	409	490	496	500	498	500	499	501	493	497	499	502	500
NPRI	BLK2	502	394	395	308	296	304	299	305	309	298	308	304	304	301	306	304	310	502	497	496	501	503	499	502	494	499	500	501	501
PCGP	PGRG	581	589	596	601	577	591	382	393	402	374	394	390	389	384	395	393	400	592	582	575	585	588	587	592	577	585	589	614	585
PGLA	GT12	197	168	170	204	165	169	167	169	170	165	170	168	168	174	175	175	189	173	167	166	167	234	159	241	161	211	166	174	168
PGLA	ST10	107	91	91	93	91	91	89	89	91	89	91	91	90	89	91	91	92	89	89	92	112	98	112	95	101	91	91	112	108
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	100	142	142	146	142	145	141	128	111	120	118	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	145	147	143	131	116	124	117	
PLPS	GT13	120	121	122	125	120	124	122	121	126	120	124	126	130	125	129	129	129	128	127	127	129	132	127	131	127	124	109	119	112
PLPS	ST18	61	60	58	58	59	58	57	57	59	57	59	58	59	59	58	59	59	122	142	143	143	205	213	213	210	200	199	206	213
SKSP	BLK1	220	241	263	307	274	220	218	223	231	218	223	217	215	271	272	230	230	292	261	221	282	301	275	304	293	226	276	309	220
TJGS	GT1A	140	139	143	171	135	142	141	142	143	139	144	141	141	140	141	140	156	190	138	208	224	226	225	225	221	224	220	222	227
TJGS	GT1B	130	135	134	162	128	130	136	139	139	129	137	131	132	131	136	133	147	183	133	200	212	218	210	213	210	217	210	213	214
TJGS	ST1C	179	183	180	183	180	180	177	176	179	175	179	179	182	182	182	182	229	200	227	246	246	246	249	249	246	250	250	250	250
TJGS	GT2A	147	147	149	146	148	148	148	148	148	148	148	148	148	148	148	148	147	148	147	215	215	215	215	214	214	214	214	214	214
TJGS	GT2B	142	142	142	144	144	144	144	144	144	144	144	144	144	144	144	144	143	143	212	210	210	210	210	210	210	210	210	210	210
TJGS	ST2C	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	257	257	257	257	257	257	259	259	259	259	259
YPKA	GT11	68	19	0	0	0	0	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	31	0	0	0	0	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		3752	3473	3491	3593	3350	3303	3030	3018	3108	2954	3068	3000	3049	3194	3267	3181	3157	3926	4084	4263	4397	4560	4599	4749	4591	4575	4506	4590	4490
PKLG	GT09	0	0	0	0	0	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 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
BSIA	HY02	22	22	22	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY02	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		
KNRG	HY02	36	36	36	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23		
KNYR	HY01	106	106	106	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	106	105	105	105		
KNYR	HY02	104	104	104	104	103	103	103	104	104	104	103	104	104	103	104	104	103	103	103	103	104	103	103	103	104	
KNYR	HY03	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
KNYR	HY04	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
LPIA	HY01	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	9	9	9	9	9	9	9	
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
MNOR	HY01	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	4	4	4	4	4	4	4	
PGAU	HY01	-1	-1	-1	-1	-1	-1	12	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	22	22	22	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	22	22	22	22	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0		
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	51	51	51	31	31	52	0	
SIHY	HY02	50	50	20	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	30	30	52	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	17	17	25	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	17	17	25	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	17	17	25	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	17	17	25	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	-1	
TMGR	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	
TMGR	HY03	31	32	32	32	30	32	31	32	32	29	32	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-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	91	97	130	97	91	97	91	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	131	99	94	100	-1	-1	-1	-1	-1	
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro		603	604	574	530	526	528	527	542	529	526	528	551	529	550	531	531	532	542	540	542	719	749	749	798	576	563
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	2	5	9	12	16	17	21	23	25	25	25	26	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	8	26	30	35	39	42	44	45	46	37	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	12	23	29	34	34	35	45	45	45	45	24	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	18	26	32	37	41	45	48	49	50	50	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	12	17	25	29	37	40	26	47	49	50	48	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	20	27	32	35	38	41	42	43	44	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	13	25	37	17	13	48	40	47	40	50	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	17	25	35	37	39	47	50	56	37	58	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	15	22	28	32	37	39	42	43	43	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	2	31	88	143	214	265	280	307	346	378	382	400	
PCUF	CUFG	3	5	5	1	3	3	4	4	4	3	4	3	4	4	6	4	4	3	4	3	4	3	5	3	3	
PCUF	CUFK	4	5	6	2	4	4	5	6	6	5	6	5	6	5	4	3	4	4	3	4	4	5	4	7	7	
Total Co-Gen		7	10	11	3	7	7	9	10	10	9	9	9	9	10	9	9	9	9	7	12	10	9	9	7	11	
Total Gen		14180	13725	13533	13229	12944	12898	12595	12483	12453	12260	12216	12173	12210	12373	12421	12458	12712	13686	14404	14795	15113	15452	15657	15829	15762	
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	
TIE-HVDC		-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	
TIE-PLTG		23	-18	-29	36	-11	-25	6	-30	-13	-17	0	-25	-31	11	-42	-26	-53	-50	-13	-30	-1	-42	-17	-20		
Interconnection		-6	-47	-57	8	-40	-55	-23	-59	-42	-46	-29	-54	-59	-18	-71	-55	-82	-79	-42	-60	-30	-72	-46	-49		
System Total		14198	13784	13602	13233	12996	12965	12630	12554	12507	12318	12257	12239	12281	12403	12504	12525	12806	13777	14458	14867	15155	15536	15715	15890		

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																								
SRev ST-Coal		215	366	536	587	568	564	590	606	609	661	653	662	652	663	659	650	623	572	506	384	331	343	238	254	245	205	214	237	253	241	183	171	180	163	180	150	158	175	175	174	169	172	188	168	166	174	178	170
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	-2	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		948	1162	1014	912	1155	1202	1475	1487	1397	1571	1457	1525	1476	1331	1258	1344	1368	742	584	479	345	325	286	209	367	383	452	368	468	155	246	162	242	177	263	259	495	726	451	264	164	138	345	419	427	517	570	764
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 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 Co-Gen		26	23	22	30	26	26	24	23	23	24	24	24	24	23	24	24	26	21	23	24	24	24	26	27	26	25	24	24	26	22	23	21	24	26	24	24	24	25	23	20	25	25	26	25	25	28	25	25
Syncon		1253	1253	1253	1253	1253	1253	1102	1253	1253	1253	1102	1253	1100	1251	1251	1251	1272	1272	1272	1272	1064	1064	1064	827	1186	1186	1272	873	808	495	560	323	323	510	697	758	1014	1035	323	510	697	546	672	884	863	1014	1165	
Hydro		84	83	113	107	111	109	110	246	108	111	109	237	108	240	108	108	107	96	96	98	96	282	253	253	441	149	162	97	374	442	386	363	471	506	428	334	460	214	211	564	474	385	307	536	393	394	266	137
S.Reserve Total		2526	2887	2938	2889	3113	3154	3452	3464	3390	3620	3496	3550	3513	3357	3300	3377	3375	2703	2481	2257	2068	2038	1867	1807	1906	1948	2038	1998	1994	1668	1331	1276	1239	1194	1404	1464	1895	2154	1895	1345	1342	1417	1412	1820	1895	1976	2053	2261