

Daily System Generation Summary on Sunday

Sunday, August 18, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,935 MW
Distillate	0 MW
Total TNB	1,935 MW
Total IPP	15,255 MW
Total Co-Gen	0 MW
Total System	20,269 MW

Generation Mix

Type	MWh	Percentage
Hydro	5,204	1.57 %
Gas	37,432	11.31 %
Total TNB	42,636	12.89 %
ST-Coal	184,206	55.67 %
LSS	1,714	0.52 %
Gas	101,469	30.67 %
Total IPP	287,389	86.86 %
Co-Gen	1,504	0.45 %
Total Co-Gen	1,504	0.45 %
Total Generation	331,529	100.20 %
PLTG	-85	-0.03 %
HVDC	733	0.22 %
Interconnection	648	0.20 %
Net Energy	330,881	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:	21:00:00 Hour
Total Set On Bus	16,823 MW
TNB Generation	2,102 MW
IPP Generation	13,297 MW
Spinning Reserve	1,362 MW
Maximum Demand	15,455 MW
Net Energy	330,881 MWH
Load Factor	89.21 %

Fuel Cost

Total Cost:	61,763,841.12 RM
Cost per Unit	18.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	570
Hydro	165
Syncon	674
Thermal	221
Total	1,630

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	0

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	213
Total TNB	264
CBPS	54
KLPP	99
NPRI	156
PGLA	106
PLPS	77
SGB3	60
SGRI	54
SKSP	6
YPKA	61
Total IPP	674
Total Gas	938
Total Gas Required	938

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	14898	14261	13730	13331	12895	12728	12623	12389	11691	12286	13015	13528	13753	13832	14123	14494	14474	14237	13745	14034	15362	15455	15220	14973

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 26, 2019 8:04:44 AM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Sunday

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	693	691	692	694	691	692	692	694	691	691	692	691	692	692	692	693	691	692	692	692	691	692	693	694	692	691	693	694	692	690	692	693	693	692	693	693											
JMAH	U002	693	694	693	694	695	695	694	694	693	694	692	694	695	694	696	694	696	694	697	693	694	696	692	693	694	694	692	696	697	694	696	694	696	694	695	693	696	696										
JMHE	U001	500	500	499	500	501	499	500	502	496	500	501	499	499	503	499	501	500	300	301	297	301	300	299	301	299	300	301	299	300	301	301	299	300	300	300	301	300	438	497	498	500							
JMJG	U001	674	671	672	670	672	671	673	671	667	672	669	670	673	674	674	672	672	672	672	673	668	671	679	667	678	678	671	679	677	671	673	678	671	682	671	681	677	672	673									
JMJG	U003	668	668	666	667	671	668	605	598	587	589	589	589	589	580	587	589	585	587	586	588	583	590	584	585	620	673	671	672	671	673	673	673	671	678	673	672	672	673	672	672	673	672						
JMJG	U004	980	982	978	978	977	976	900	813	787	782	785	782	782	782	785	782	782	783	783	783	812	904	904	902	902	906	902	904	904	906	904	902	905	903	906	977	974	975	976	975	979	975	978	977	975			
PKLG	U003	151	158	170	168	216	281	281	286	281	283	284	279	283	278	285	285	286	286	288	284	285	286	282	284	285	279	279	283	284	283	281	283	279	278	285	284	285	284	285	283	277	280	282	282	282	285	286	
PKLG	U005	468	468	470	468	470	470	469	470	458	467	469	466	468	468	470	467	467	470	470	469	468	469	472	470	468	470	471	469	471	473	470	470	470	470	471	470	471	471	468	468	469	468	471	471	470	470		
TBIN	U001	687	687	689	688	693	689	687	689	688	687	689	685	689	686	689	651	694	690	689	690	692	692	693	689	691	689	691	689	691	689	690	690	692	690	690	690	690	691	690	690	689	690	692	691	689	691	689	
TBIN	U002	694	694	694	691	694	697	692	692	693	693	694	692	694	693	694	693	653	697	691	689	693	691	691	691	692	692	692	695	691	693	692	691	695	690	689	693	687	690	693	691	691	690	692	691	692	693	692	691
TBIN	U003	691	693	692	691	689	690	690	691	691	687	690	691	691	690	691	690	692	656	695	691	690	692	693	691	691	692																						

Daily MW Generation on Sunday

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																																
TJGS	ST2C	258	258	258	258	258	258	258	256	256	256	256	256	262	262	262	262	262	262	259	259	259	259	259	261	261																															
YPKA	GT12	138	137	137	139	139	140	138	140	139	139	137	138	138	68	67	67	68	68	129	129	131	130	129	125	137																															
YPKA	ST10	59	59	59	60	59	58	59	60	59	58	58	58	59	32	32	32	32	32	56	57	57	57	55	59																																
YPKA	GT21	134	133	130	132	132	134	133	136	135	133	137	136	134	67	67	67	67	66	123	124	123	124	120	131																																
YPKA	ST20	64	64	64	63	64	64	63	65	64	65	64	65	65	40	40	40	40	41	59	60	60	60	58	64																																
Total CCGT-Gas		6845	6333	6160	5904	5594	5259	5298	5275	5224	5060	5028	4957	4922	4956	4678	4123	4033	4513	4666	4894	5266	5602	5576	5657	5650	5737	5663	5883	6085	6195	6371	6369	6413	6390	6283	5960	5842	5846	6055	6791	7066	7078	7130	7117	6907	6499	6386	6275								
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
BSIA	HY02	23	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	23	23	22																															
CEND	HY01	8	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8																															
CEND	HY03	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																															
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	-1																															
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	-1																															
KNRG	HY02	25	25	25	25	24	26	25	25	24	24	24	25	25	24	25	24	25	25	25	25	25	25	25	25	25																															
KNYR	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																															
KNYR	HY04	58	57	59	58	58	60	98	70	60	59	57	56	55	73	59	55	60	58	57	59	58	71	63	60	63	61	71	80	67	61	89	83	102	102	61	86	59	58	59	100	77	64	101	74	101	101	95	68								
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10																														
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																															
PGAU	HY01	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	21	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
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	-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							
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	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	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	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	0	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	0	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	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	-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	32	33	33	33	33	33	33	33	33	31	29	31	33	33	31	33	34	33	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33					
TMGR	HY04	-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	-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	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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7							
Total Hydro		166	155	157	156	155	176	197	168	158	157	152	171	150	171	157	173	158	157	156	156	157	170	160	159	162	160	170	179	165	181	187	181	201	201	160	186	159	157	187	209	395	385	441	405	324	484	499	450								
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	0	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	3	4	8	14	19	21	23	18	26	24	26	27	15	26	12	2	1	4	1	2	1	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	3	7	18	19	25	27	33	38	28	39	40	32	39	27	25	38	10	3	5	8	9	5	2	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	2	2	2	2	10	12	12	12	6	6	6	6	16	16	16	16	9	9	9	9	1	1	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	1	5	13	15	22	28	33	39	43	40	17	47	18	12	22	36	18	14	13	8	13	11	6	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	1	5	6	11	20	26	24	31	38	40	31	39	20	14	24	14	0	0	2	5	5	1	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	3	10	17	22	20	32	31	42	27	40	43	44	38	36	40	34	31	25	19	13	4	3	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	3	5	22	30	32	41	36	43	52	55	55	34	14	37	48	22	38	31	21	27	14	5	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	1	2	6	8	12	22	30	30	38	39	39	37	44	21	33	15	2	1	2	11	8	5	2	1	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	3	22	52	97	135	169	216	233	277	256	253	291	224	171	210	220	156	112	84	79	84	59	24	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	29	28	27	28	27	29	29	29	28	27	26	26	26	31	29	27	28	27	26	27	26	25	26	19	16	27	26	25	24	25	25	27	26	26	26	27	27	26	28	27	26	26	27	27	27	28	28	29	29	29	29					
PCUF	CUFK	37	37	36	37	36	38	36	37	37	39	37	39	38	37	38	37	38	37	34	37	36	35	37	35	37	39	38	34																												

Daily MW Generation on Sunday

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																									
System Total		14898	14434	14261	13981	13730	13451	13331	13119	12895	12771	12728	12652	12623	12712	12389	11840	11691	12095	12286	12560	13015	13456	13528	13791	13753	13831	13832	14024	14123	14316	14494	14426	14474	14450	14237	13968	13745	13739	14034	14922	15362	15337	15455	15353	15220	15029	14973	14733	
SRev ST-Coal		137	125	159	165	152	130	325	255	293	281	271	284	270	268	270	266	375	261	266	276	263	266	278	258	262	277	232	271	278	271	267	269	260	277	276	255	265	275	163	126	144	141	122	134	87	142	133	142	
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			
SRev CCGT-Gas		780	1006	816	1072	950	1060	1021	700	751	915	947	1018	1053	1019	1297	1852	1942	1462	1309	1234	862	598	634	605	766	679	896	760	578	651	475	477	433	456	563	886	1147	1143	1293	703	428	416	364	377	587	566	679	790	
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			
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			
SRev Co-Gen		9	10	12	10	12	8	10	9	9	8	11	10	11	10	6	9	10	10	11	15	11	13	14	12	14	19	20	10	15	14	14	14	14	13	12	13	12	11	12	13	10	11	11	13	13	11	13	15	38
Syncon		829	829	829	829	829	678	829	829	829	829	829	678	829	829	678	829	678	678	678	678	678	678	678	678	678	678	678	678	527	678	678	678	678	678	678	552	552	552	678	829	728	640	640	640	829	728	577	728	
Hydro		134	145	143	144	145	275	103	132	142	143	148	280	150	129	143	278	142	144	145	145	144	131	141	142	139	141	131	122	136	271	114	120	100	100	141	116	143	145	264	91	181	279	223	259	151	92	228	126	
S.Reserve Total		1889	2115	1959	2220	2088	2151	2288	1925	2024	2176	2206	2270	2313	2255	2545	3083	3298	2555	2409	2348	1958	1686	1745	1695	1859	1794	1957	1841	1685	1734	1548	1558	1484	1523	1671	1821	2118	2127	2411	1759	1492	1487	1362	1423	1665	1541	1632	1824	