

Daily System Generation Summary on Monday

Monday, April 22, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,516 MW
Distillate	0 MW
Total TNB	2,516 MW
Total IPP	15,990 MW
Total Co-Gen	0 MW
Total System	20,956 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,695	1.99 %
Gas	39,852	10.33 %
Total TNB	47,547	12.32 %
ST-Coal	206,127	53.41 %
LSS	1,514	0.39 %
Gas	130,464	33.80 %
Total IPP	338,105	87.60 %
Co-Gen	1,352	0.35 %
Total Co-Gen	1,352	0.35 %
Total Generation	387,004	100.27 %
PLTG	417	0.11 %
HVDC	639	0.17 %
Interconnection	1,056	0.27 %
Net Energy	385,948	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:	14:30:00 Hour
Total Set On Bus	20,074 MW
TNB Generation	2,415 MW
IPP Generation	16,060 MW
Spinning Reserve	1,558 MW
Maximum Demand	18,469 MW
Net Energy	385,948 MWH
Load Factor	87.07 %

Fuel Cost

Total Cost:	74,753,328.56 RM
Cost per Unit	19.71 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	420
Hydro	233
Syncon	945
Thermal	145
Total	1,743

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	52
PAKA	48
PGPS	20
SRDG	22
TJGS	160
Total TNB	302
CBPS	54
KLPP	99
MPSS	22
NPRI	154
PGLA	110
PLPS	95
PTEK	18
SGB3	57
SGRI	140
SKSP	52
YPKA	51
Total IPP	852
Total Gas	1,155
Total Gas Required	1,155

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	15332	14638	14136	13675	13364	13132	13193	13138	13829	16014	17023	17783	17794	17411	18068	18422	18367	17845	16509	16332	17505	17445	17017	16725

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, April 24, 2019 10:34:09 AM

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

Daily MW Generation on Monday

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
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT12	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT13	125	128	125	125	128	106	106	106	105	105	105	105	103	107	104	104	109	109	109	109	108	108	109	109
SGRI	ST14	144	73	72	72	72	67	64	62	64	65	64	65	67	141	169	211	211	153	147	150	131	142	143	144
SGRI	GT21	111	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	135	135	124	135	135	135	116
SGRI	GT22	115	119	41	0	0	0	0	0	0	0	0	0	0	0	0	0	20	142	124	137	138	136	113	132
SGRI	GT23	113	114	111	111	132	111	107	107	107	107	107	107	107	107	110	113	113	113	142	121	139	139	132	111
SGRI	ST24	192	162	116	65	65	61	61	61	59	58	58	58	59	63	59	59	62	60	106	140	204	204	214	213
SKSP	BLK1	267	301	276	321	329	327	269	218	218	223	219	218	241	292	341	344	308	335	338	337	326	325	331	337
TJGS	GT1A	196	222	219	220	223	223	205	205	237	178	144	142	146	212	136	138	226	228	227	229	223	236	225	224
TJGS	GT1B	187	214	215	208	216	214	211	203	198	169	136	132	135	203	125	129	220	216	216	218	213	216	215	214
TJGS	ST1C	238	240	237	240	247	243	240	230	241	190	180	184	192	235	200	179	242	246	246	249	249	249	249	249
TJGS	GT2A	224	223	224	223	223	223	192	164	164	164	162	162	162	162	162	162	173	224	224	224	223	223	223	223
TJGS	ST2C	127	127	127	127	127	127	122	103	103	103	103	103	103	103	103	103	127	127	127	127	127	127	127	127
YPKA	GT11	127	55	0	0	0	0	0	0	0	0	0	0	0	121	129	131	126	128	127	126	126	126	126	126
YPKA	GT12	129	129	129	128	129	129	68	68	67	67	68	68	68	67	67	135	129	130	129	128	128	128	128	128
YPKA	ST10	123	55	55	55	55	55	33	32	32	32	32	31	32	32	32	31	32	113	124	126	124	125	126	126
Total CCGT-Gas		6902	6635	6240	6070	5984	5876	5274	4976	4967	4893	4739	4758	4763	5125	4777	4800	5390	6439	7026	7470	7636	7781	7931	7765
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	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
BSIA	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
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
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
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
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	HY02	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
KNYR	HY01	0	0	0	0	0	0	99	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
KNYR	HY02	0	0	0	0	0	0	98	97	97	97	97	97	97	97	97	97	98	98	59	62	99	62	59	
KNYR	HY03	60	60	60	60	60	60	98	98	98	98	98	98	98	97	98	98	97	98	98	98	98	98	98	98
KNYR	HY04	-1	-1	-1	-1	-1	-1	100	99	99	99	99	98	98	99	99	99	99	99	59	-1	62	100	-1	-1
LPJA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	16	16	16	16	16	16	16	16	16	16	16	16
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
PGAU	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
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
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	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
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	-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	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
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

Daily MW Generation on Monday

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																									
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	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		151	152	152	152	152	152	488	485	485	485	484	483	485	484	513	490	489	490	429	391	239	385	696	510	191	192	192	224	516	389	409	352	352	190	152	176	189	153	158	159	180	181	160	161	160	161			
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				
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	12	15	19	21	21	24	26	20	25	19	20	15	10	8	15	6	9	4	2	2	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	2	7	13	14	18	19	29	25	14	24	31	20	36	28	29	21	19	8	7	8	7	4	2	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	5	8	16	25	25	35	32	44	39	49	41	47	46	45	31	32	32	27	24	19	11	4	1	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	5	7	17	22	29	33	35	24	37	30	21	33	32	28	32	28	22	26	23	20	7	3	1	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	7	10	17	21	33	45	48	43	35	38	47	36	27	20	18	28	29	29	24	13	5	1	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	2	5	13	16	22	29	32	34	37	40	44	40	43	43	35	33	28	18	25	19	12	8	4	1	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	8	33	57	92	123	154	195	195	186	201	212	194	214	196	172	145	143	124	120	112	86	45	20	4	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	37	30	32	32	31	31	32	31	30	31	31	36	34	35	35	35	34	34	35	36	34	34	36	35	34	35	34	35	35	34	35	34	35	34	35	34	35	35	35	35	35	35	34	36	35	35			
PCUF	CUFK	43	43	42	43	43	43	43	43	43	43	43	43	44	42	43	28	14	13	13	14	15	5	6	6	6	6	3	5	4	5	4	3	5	6	4	5	3	6	6	5	7	5	5	5	5	5			
Total Co-Gen		80	73	74	75	74	74	75	74	73	74	74	79	77	77	77	62	49	49	47	48	51	40	40	41	41	40	38	39	39	39	39	39	37	40	41	38	40	38	41	41	39	43	40	40	40				
Total Gen		15312	15033	14618	14403	14196	14025	13701	13429	13403	13327	13171	13191	13202	13581	13220	13283	13889	15241	16056	16673	17073	17497	17815	17964	17846	17568	17423	17785	18035	18516	18471	18500	18414	18432	17926	17300	16701	16326	16415	17316	17575	17599	17514	17491	17097	16971	16765	16432	
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		
TIE-HVDC		-29	-29	-29	29	29	29	30	30	31	31	29	29	30	29	29	30	30	31	31	30	30	31	31	29	32	29	31	31	31	31	31	31	31	31	31	31	31	31	30	31	31	31	30	30	30	30	31	31	
TIE-PLTG		9	30	9	31	31	17	-4	-18	9	10	10	-20	-21	7	52	30	30	28	11	-7	20	21	1	30	22	-5	-17	-20	-64	15	18	16	15	6	49	51	161	31	53	47	39	67	39	23	50	-90	9	2	
Interconnection		-20	1	-20	61	60	46	26	12	39	41	39	9	9	36	82	59	60	58	42	23	50	51	32	61	52	27	12	11	-33	47	49	47	47	38	81	82	192	62	83	78	70	98	69	52	80	-60	40	33	
System Total		15332	15032	14638	14342	14136	13979	13675	13417	13364	13286	13132	13182	13193	13545	13138	13224	13829	15183	16014	16650	17023	17446	17783	17903	17794	17541	17411	17774	18068	18469	18422	18453	18367	18394	17845	17218	16509	16264	16332	17238	17505	17501	17445	17439	17017	17031	16725	16399	
SRev ST-Coal		181	187	208	254	270	265	288	272	283	292	289	290	282	270	282	278	267	232	139	296	240	137	115	114	135	150	127	119	129	126	119	148	109	139	148	124	168	110	-98	139	125	161	118	131	142	160	129	206	
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 CCGT-Gas		713	837	669	479	412	448	1050	1348	1357	1431	1585	1566	1561	1229	1577	1594	1253	517	497	364	341	348	281	381	417	412	597	431	288	279	294	286	400	347	676	1229	1692	1112	1180	486	339	325	404	319	576	604	536	521	
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 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 Co-Gen		-8	-1	-2	-3	-2	-2	-3	-2	-1	-2	-2	-7	-5	-8	-6	-6	-7	-7	-5	-5	10	23	23	25	24	21	32	32	31	31	32	34	33	33	33	33	35	32	31	34	32	34	31	31	33	29	32	32	
Syncon		1115	1115	1115	1115	1115	1115	1014	1014	1014	1014	1014	1014	1014	1014	863	1014	1014	928	928	964	928	741	842	1115	1115	1115	1029	655	1029	928	1029	1029	1029	1029	1115	777	1029	1115	1115	1115	964	964	928	928	928	928	928		
Hydro		147	146	146	146	146	146	111	114	114	114	115	116	114	115	237	109	110	109	156	194	310	300	176	311	157	156	156	210	392	245	326	282	282	194	146	460	195	145	140	139	269	268	139	138	139	139	138		
S.Reserve Total		2148	2284	2136	1991	1941	1972	2460	2746	2767	2849	3000	2978	2968	2619	2982	2966	2636	1866	1754	1739	1713	1782	1647	1546	1729	1889	2061	1887	1728	1558	1731	1730	1860	1838	2086	2720	3278	2628	2523	2018	1871	1847	1932	1643	1914	1860	1764	1825	