

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,219 MW
Distillate	0 MW
Total TNB	2,219 MW
Total IPP	17,339 MW
Total Co-Gen	0 MW
Total System	21,912 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,624	5.60 %
Gas	19,393	5.83 %
Total TNB	38,017	11.43 %
ST-Coal	210,245	63.22 %
LSS	3,543	1.07 %
Gas	78,935	23.74 %
Total IPP	292,723	88.02 %
Co-Gen	1,296	0.39 %
Total Co-Gen	1,296	0.39 %
Total Generation	332,036	99.84 %
PLTG	128	0.04 %
HVDC	-653	-0.20 %
Interconnection	-525	-0.16 %
Net Energy	332,561	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:	16:30:00 Hour
Total Set On Bus	16,704 MW
TNB Generation	1,898 MW
IPP Generation	13,621 MW
Spinning Reserve	1,131 MW
Maximum Demand	15,622 MW
Net Energy	332,561 MWH
Load Factor	88.70 %

Fuel Cost

Total Cost:	52,092,485.81 RM
Cost per Unit	15.68 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	215
Hydro	282
Syncon	568
Thermal	470
Total	1,535

Time Weather Temperature

Afternoon	Hot	31
Morning	Sunny	25

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	13481	12829	12352	11995	11792	11594	11706	11753	12233	13701	14317	14800	14835	14839	15320	15530	15572	15286	14434	14301	15204	14881	14693	14580

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	109
Total TNB	138
CBPS	15
NPRI	80
PGLA	113
PLPS	101
SKSP	24
Total IPP	333
Total Gas	471
Total Gas Required	471

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 9:12:37 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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
KNRG	HY03	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY01	96	0	0	0	0	61	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
KNYR	HY02	97	97	97	98	98	98	97	97	93	59	61	94	97	97	95	95	96	96	96	96	97	97	97	97
KNYR	HY03	97	97	97	97	98	97	98	97	97	97	97	97	97	97	97	96	96	97	97	97	97	97	97	97
KNYR	HY04	98	98	99	96	98	99	99	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	96
LPIA	HY01	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	26	26	26	26	27	27	27	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	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	0	0	21	20	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY04	0	0	0	0	18	18	0	17	19	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	0	0	30	49	47	48
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	30	31	31	31	31
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25
TMGR	HY01	40	42	50	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	82	83	82	83	83
TMGR	HY02	42	45	43	44	45	87	75	56	47	46	47	44	47	51	50	61	71	44	43	42	44	45	49	49
TMGR	HY03	-1	-1	-1	40	40	41	67	46	42	42	40	40	44	41	51	63	50	84	30	33	83	84	83	83
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	90	92	88	86	90
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	6	6	6	5	6	5	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		677	554	582	569	593	636	596	633	654	610	574	573	608	641	617	637	660	619	652	648	657	714	739	718
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
BDSL	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
BLSL	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
JSL	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
JSL	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	29	27	29	28	30	28	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
PCUF	CUFG	25	26	24	25	25	26	25	27	25	25	27	25	26	26	26	26	26	26	26	26	26	26	26	26
Total Co-Gen		54	53	53	53	55	54	53	56	54	54	56	54	55	53	55	54	54	55	53	52	53	53	53	53
Total Gen		13496	13150	12889	12607	12354	12136	11956	11855	11771	11664	11575	11575	11687	11748	11715	11759	12205	13114	13687	13989	14266	14563	14752	14873
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

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																											
TIE-HVDC		-28	-28	-29	-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-1	0	0	-30	-30	-30	-30	-29	-29	-29	-29																					
TIE-PLTG		47	56	93	32	35	0	-7	-18	11	6	13	42	14	-23	-7	-32	4	17	17	-9	-19	-17	-15	-32	-16	-21	-24	-27	8	-47	12	-11	-27	-16	70	102	56	43	61	16	29	-37	6	-49	-19	-18	-47	3			
Interconnection		19	28	63	3	5	-29	-36	-47	-18	-24	-15	14	-15	-51	-35	-60	-25	-12	-11	-37	-48	-46	-44	-61	-45	-50	-52	-55	-22	-76	-17	-40	-56	-45	41	73	55	43	61	-14	0	-67	-24	-79	-47	-46	-76	-26			
System Total		13481	13125	12829	12607	12352	12168	11995	11905	11792	11692	11594	11565	11706	11802	11753	11822	12233	13129	13701	14029	14317	14613	14800	14938	14835	14817	14839	15098	15320	15517	15530	15599	15572	15622	15286	14835	14434	14180	14301	15122	15204	15059	14881	14780	14693	14737	14580	14327			
SRev ST-Coal		814	826	882	874	874	905	959	1010	1009	977	951	978	979	978	976	977	975	938	766	657	675	590	502	518	573	569	570	552	435	326	296	304	348	347	352	580	588	586	587	459	376	434	468	482	490	485	550	582			
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	0	
SRev CCGT-Gas		206	189	201	288	201	159	195	169	225	189	267	260	195	173	181	170	162	254	364	380	164	158	225	125	134	482	421	341	240	151	167	160	144	118	292	246	363	397	320	209	218	184	237	291	335	307	390	370			
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	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	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	0	0
Syncon		738	738	587	587	587	608	608	608	738	738	738	738	738	738	738	738	738	738	651	651	651	651	500	651	651	651	651	651	651	464	464	464	313	464	464	651	651	651	651	464	651	500	651	651	651	651	651	651			
Hydro		169	153	276	289	265	241	237	320	299	172	208	209	174	293	166	146	123	164	132	236	227	169	295	165	164	165	164	112	263	331	303	436	298	202	154	137	134	133	127	266	221	401	275	223	274	267	275	221			
S.Reserve Total		1927	1906	1946	2038	1927	1913	1999	2107	2141	2076	2164	2185	2086	2031	2061	2031	1998	2094	1999	2010	1803	1654	1608	1545	1608	1867	1806	1655	1402	1272	1230	1213	1254	1131	1449	1614	1736	1767	1685	1398	1466	1519	1631	1647	1750	1710	1866	1824			