

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,322 MW
Distillate	0 MW
Total TNB	2,322 MW
Total IPP	16,966 MW
Total Co-Gen	0 MW
Total System	21,285 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,289	2.83 %
Gas	18,598	5.66 %
Total TNB	27,887	8.48 %
ST-Coal	230,925	70.25 %
LSS	2,546	0.77 %
Gas	66,079	20.10 %
Total IPP	299,550	91.12 %
Co-Gen	425	0.13 %
Total Co-Gen	425	0.13 %
Total Generation	327,862	99.74 %
PLTG	-167	-0.05 %
HVDC	-698	-0.21 %
Interconnection	-865	-0.26 %
Net Energy	328,727	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	17,170 MW
TNB Generation	1,617 MW
IPP Generation	13,913 MW
Spinning Reserve	1,575 MW
Maximum Demand	15,584 MW
Net Energy	328,727 MWH
Load Factor	87.89 %

Fuel Cost

Total Cost:	50,820,834.15 RM
Cost per Unit	15.50 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	557
Hydro	238
Syncon	1,116
Thermal	506
Total	2,417

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

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	14823	14154	13537	13290	12809	12605	12507	12322	11566	12210	13059	13495	13437	13416	13825	14041	14204	14088	13765	13919	15419	15584	15431	15222

Gas Usage

Station	(mmscfd)
GLGR	32
TJGS	103
Total TNB	134
CBPS	54
KLPP	42
NPRI	75
PGLA	106
PLPS	44
SGRI	43
YPKA	19
Total IPP	383
Total Gas	518
Total Gas Required	518

Alternate Fuel Usage

Station	(mmscfd)
Total	0

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
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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	HY01	23	23	23	23	22	23	23	23	23	23	23	22	22	22	22	22	23	23	23	23	22	22	23	22
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	24	0	0	0	0
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	92	102	98	99	102	95	95	95	95	96	95
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	102	98	99	102	95	95	95	95	96	96
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	92	103	99	100	103	96	96	96	95	96	96
KNYR	HY04	57	54	103	100	61	60	56	54	58	58	100	61	85	63	60	62	93	103	99	100	103	96	96	96
LPIA	HY01	19	19	19	19	19	18	18	18	18	18	18	18	17	17	17	17	17	3	0	0	0	0	0	0
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5
PGAU	HY01	81	81	109	79	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	82	82	111	26	21	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY01	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	51	
SIHY	HY02	50	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	
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	
SYPS	HY03	25	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	25	17	17	17	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	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY04	30	30	33	33	33	32	29	31	30	33	33	33	33	28	33	33	33	33	30	29	31	31	29	
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	
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	
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	
UPIA	HY02	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Total Hydro		476	354	464	346	222	186	180	153	160	158	204	165	189	167	164	190	467	515	499	503	549	539	501	
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	12	15	23	14	27	27	28	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	5	12	31	39	38	14	13	14	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	9	20	20	44	34	23	34	33	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	7	21	5	22	19	29	28	14	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	17	24	32	39	44	16	17	28	
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	7	10	23	34	36	45	22	44	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	15	23	33	18	36	20	28	24	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7	10	35	11	49	21	50	39	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	21	30	38	45	53	57	55	40	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	24	29	31	23	41	20	17	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	22	54	94	171	266	265	335	269	292	292	
PCUF	CUF6	4	5	5	7	5	5	5	6	5	4	5	6	5	3	5	5	5	4	5	4	5	5	4	
PCUF	CUF7	5	5	6	6	5	7	5	6	5	4	5	5	6	5	4	5	4	5	4	5	4	3	4	
Total Co-Gen		9	10	11	13	10	12	10	8	10	11	12	10	11	9	8	8	9	10	8	10	10	9	11	
Total Gen		14767	14319	14041	13719	13498	13314	13248	12933	12759	12682	12557	12410	12473	12520	12277	11858	11590	11970	12173	12494	12984	13253	13468	
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	

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																											
TIE-HVDC		-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29													
TIE-PLTG		-19	12	-77	-98	-3	-48	-6	-17	-14	7	-11	-39	2	-14	-10	-57	60	25	-2	-74	-39	32	9	-26	-6	-48	-21	-4	31	0	24	-16	-3	-2	-36	-14	6	35	-21	19	37	25	47	-8	-19	-4	7	46			
Interconnection		-49	-17	-106	-127	-32	-78	-35	-46	-43	-22	-41	-69	-27	-43	-38	-85	31	-3	-30	-103	-68	3	-20	-55	-34	-76	-50	-34	1	-29	-5	-45	-31	-31	-66	-44	-25	5	-50	-11	8	-4	18	-38	-50	-33	-22	17			
System Total		14823	14343	14154	13853	13537	13399	13290	12986	12809	12711	12605	12486	12507	12570	12322	11950	11566	11980	12210	12604	13059	13257	13495	13541	13437	13435	13416	13696	13825	13961	14041	14138	14204	14261	14088	13873	13765	13704	13919	14782	15419	15483	15584	15517	15431	15306	15222	14855			
SRev ST-Coal		351	451	560	566	553	593	598	685	684	669	720	744	738	734	728	980	977	984	982	888	733	660	647	639	623	635	643	624	633	633	605	612	596	629	617	608	612	614	611	257	240	257	239	231	248	234	224	266			
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	0
SRev CCGT-Gas		777	916	813	320	418	390	428	517	646	734	767	716	698	621	879	946	1172	995	1019	994	855	957	942	936	1095	1106	1093	591	533	373	277	279	299	269	312	411	457	516	649	315	231	345	236	297	285	435	700	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	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	0
SRev Co-Gen		73	72	71	69	72	70	72	70	72	74	72	71	70	72	71	73	74	74	73	72	74	72	72	73	71	72	72	71	74	72	75	75	74	74	70	73	72	73	70	17	15	20	17	17	19	19	19	70	75		
Syncon		1053	1053	1053	1053	1204	1204	1204	1355	1355	1355	1355	1355	1355	1355	1204	1254	1254	1254	1254	1254	1103	1254	1254	1103	1254	1254	1355	1204	1355	1355	1355	1017	1204	1204	1053	1053	902	902	902	715	715	715	715	902	902	902	902	902			
Hydro		284	306	196	314	287	273	279	155	148	150	104	143	119	141	144	269	142	94	110	106	110	271	158	132	263	129	132	154	230	160	140	141	140	308	259	273	400	357	423	472	328	417	369	412	503	415	398	483			
S.Reserve Total		2538	2798	2693	2322	2534	2530	2581	2782	2905	2982	3018	3029	3005	2923	3177	3472	3619	3401	3438	3314	3026	3063	3073	3034	3155	3196	3194	2795	2674	2593	2452	2462	2464	2297	2462	2569	2594	2613	2655	1963	1716	1754	1576	1672	1770	2005	2294	2516			