

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	16,794 MW
Total Co-Gen	0 MW
Total System	21,733 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,029	6.28 %
Gas	52,630	14.34 %
Total TNB	75,659	20.62 %
ST-Coal	216,620	59.04 %
LSS	3,283	0.89 %
Gas	69,911	19.05 %
Total IPP	289,814	78.99 %
Co-Gen	1,284	0.35 %
Total Co-Gen	1,284	0.35 %
Total Generation	366,757	99.96 %
PLTG	-138	-0.04 %
Interconnection	-138	-0.04 %
Net Energy	366,895	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	18,502 MW
TNB Generation	3,605 MW
IPP Generation	13,628 MW
Spinning Reserve	1,215 MW
Maximum Demand	17,309 MW
Net Energy	366,895 MWH
Load Factor	88.32 %

Fuel Cost

Total Cost:	75,650,174.91 RM
Cost per Unit	20.62 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	280
Hydro	393
Syncon	312
Thermal	401
Total	1,386

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	214
Total TNB	243
CBPS	54
KLPP	51
NPRI	162
PGLA	52
PLPS	70
Total IPP	389
Total Gas	632
Total Gas Required	632

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	14902	14171	13716	13389	13067	12886	12936	12921	13346	14973	15850	16365	16339	16057	16418	17145	17257	16904	16007	16318	16908	16610	16017	15681

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 3, 2021 1:17:07 PM
 (Ir. Shanmugam Thoppalan)
 Head
 Grid System Operator

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	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
HTRG	HY02	57	75	75	75	75	75	75	-1	-1	-1	-1	-1	-1	-1	63	63	125	124	124	124	124	124	124	124	
KNRG	HY01	35	35	0	0	0	0	0	0	0	0	0	0	0	0	35	35	35	35	35	35	35	35	35	35	
KNRG	HY02	36	36	0	0	0	0	0	0	0	0	0	0	0	0	37	36	36	36	36	36	36	36	36	36	
KNRG	HY03	35	35	37	37	37	37	37	37	37	37	37	37	37	37	35	35	35	35	35	35	35	35	35	35	
KNYR	HY01	94	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	
KNYR	HY02	95	99	99	98	97	100	100	99	98	98	99	99	99	100	98	100	99	98	100	100	100	100	100	97	
KNYR	HY03	94	98	98	97	97	98	98	98	97	97	98	98	98	98	97	94	97	97	98	98	98	98	98	97	
KNYR	HY04	95	99	99	98	98	99	99	99	98	98	99	99	99	99	98	95	98	99	99	99	99	99	99	98	
LPIA	HY01	22	22	22	22	22	22	22	21	22	22	22	22	22	22	22	22	16	16	16	18	18	18	18	18	
LPIA	HY02	22	22	22	22	22	22	20	20	21	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20	
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	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	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	
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	17	30	30	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	16	17	17	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	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	17	17	0	
TMGR	HY01	44	63	41	42	56	65	78	41	51	42	41	42	62	41	41	74	43	78	45	42	80	51	44	44	
TMGR	HY02	45	66	41	44	57	67	82	43	54	44	44	44	64	46	43	76	44	80	44	45	46	44	44	44	
TMGR	HY03	32	32	30	0	0	0	0	0	0	0	0	0	0	0	32	80	80	80	79	79	78	32	32	77	
TMGR	HY04	-1	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	81	81	81	81	80	80	33	33	79	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	93	91	90	95	97	87	97	97	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	100	99	94	
UPIA	HY01	5	5	5	5	5	5	5	5	5	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		812	938	735	706	732	757	785	704	647	629	631	652	672	634	627	697	632	704	690	832	977	1031	1092	1090	
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	4	5	8	13	24	19	22	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	12	18	22	27	32	28	20	31	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	16	19	24	28	32	20	32	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	12	17	22	26	20	33	36	35	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	16	23	26	29	30	24	24	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	18	29	16	29	30	25	30	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	13	23	29	35	40	39	42	47	
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	7	10	12	14	24	26	36	28	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	19	24	31	33	40	39	41	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	16	21	23	17	30	30	24	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	3	14	42	50	50	42	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	16	23	24	27	33	29	33	52	
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	14	20	25	37	33	34	32	39	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	13	20	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	9	9	10	14	21	30	30	22	23	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	70	122	176	226	287	332	420	465	476	
PCUF	CUFG	29	27	28	28	29	28	28	28	29	28	28	29	28	28	29	28	28	29	28	28	29	29	29	27	28

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																											
PCUF	CUFK	28	25	25	24	27	27	26	26	26	26	25	28	27	23	26	26	25	25	24	27	26	26	26	26	25	27	27	27	27	26	24	25	26																		
Total Co-Gen		57	52	53	52	56	55	54	54	55	54	53	56	51	56	56	54	53	52	56	55	55	52	54	52	55	52	52	47	51	50	54	53	53	53	52	55	54	55	54	54	53	52	52	52	53						
Total Gen		14852	14632	14146	13987	13692	13483	13379	13168	13038	12909	12871	12872	12906	13039	12899	13052	13322	14418	14916	15512	15845	16091	16353	16379	16364	16198	16087	16292	16460	16854	17160	17242	17348	17287	16892	16403	16052	15742	16344	16961	16922	16792	16583	16427	16051	15995	15693	15500			
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	0			
TIE-HVDC		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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-PLTG		-46	-61	-21	26	-20	-35	-6	56	-26	-18	-12	-22	-27	-3	-19	-45	-21	-36	-54	-66	-2	-58	-9	-50	29	-35	34	-44	45	-23	18	46	94	-19	-9	26	48	42	29	2	18	-2	-23	6	37	-21	15	-12			
Interconnection		-46	-61	-21	26	-20	-35	-6	56	-26	-18	-12	-22	-27	-3	-19	-45	-21	-36	-54	-66	-2	-58	-9	-50	29	-35	34	-44	45	-23	18	46	94	-19	-9	26	48	42	29	2	18	-2	-23	6	37	-21	15	-12			
System Total		14902	14697	14171	13965	13716	13522	13389	13116	13067	12930	12886	12897	12936	13045	12921	13100	13346	14457	14973	15581	15850	16152	16365	16432	16339	16237	16057	16340	16418	16880	17145	17199	17257	17309	16904	16380	16007	15703	16318	16962	16908	16798	16610	16425	16017	16019	15681	15515			
SRev ST-Coal		546	585	879	937	980	1032	1036	1031	1029	1036	1029	1035	1033	1034	1051	1031	1032	885	772	532	491	432	343	480	529	608	588	487	494	367	218	247	259	226	441	490	480	534	403	208	330	335	320	341	476	479	492	482			
SRev CCGT-Gas		361	368	273	197	284	270	282	321	272	373	411	423	412	352	447	533	327	265	195	213	198	194	389	268	261	262	251	408	337	196	406	322	232	304	289	366	395	542	318	254	228	271	312	396	320	309	330	519			
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 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 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 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		612	374	612	612	612	612	612	738	738	738	587	738	738	738	738	738	738	612	525	525	374	338	338	187	338	338	338	338	338	338	151	151	0	0	151	151	525	525	525	338	151	338	374	525	525	612	612				
Hydro		277	389	274	217	191	166	138	219	151	169	167	297	126	164	171	101	166	94	186	321	176	273	248	262	389	265	346	325	273	256	515	513	676	690	427	331	255	137	180	436	559	450	599	349	315	315	275	277			
S.Reserve Total		1796	1716	2038	1963	2067	2080	2068	2183	2190	2316	2345	2342	2309	2288	2407	2403	2263	1982	1765	1591	1390	1273	1318	1348	1366	1473	1523	1558	1442	1157	1290	1233	1167	1220	1308	1338	1655	1738	1426	1236	1268	1394	1605	1611	1636	1628	1709	1890			