

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,320 MW
Distillate	0 MW
Total TNB	2,320 MW
Total IPP	16,094 MW
Total Co-Gen	0 MW
Total System	21,674 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,771	4.65 %
Gas	50,584	14.90 %
Total TNB	66,355	19.54 %
ST-Coal	189,510	55.82 %
LSS	3,163	0.93 %
Gas	81,259	23.93 %
Total IPP	273,932	80.69 %
Co-Gen	166	0.05 %
Total Co-Gen	166	0.05 %
Total Generation	340,453	100.28 %
PLTG	202	0.06 %
HVDC	748	0.22 %
Interconnection	950	0.28 %
Net Energy	339,503	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:	15:30:00 Hour
Total Set On Bus	17,271 MW
TNB Generation	3,367 MW
IPP Generation	12,497 MW
Spinning Reserve	1,398 MW
Maximum Demand	15,836 MW
Net Energy	339,503 MWH
Load Factor	89.33 %

Fuel Cost

Total Cost:	53,250,892.16 RM
Cost per Unit	15.64 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	238
Hydro	348
Syncon	620
Thermal	277
Total	1,483

Time Weather Temperature

Afternoon	Sunny	35
Morning	Rainy	24

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	196
Total TNB	225
CBPS	53
KLPP	20
NPRI	158
PGLA	93
Total IPP	324
Total Gas	549
Total Gas Required	549

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	14338	13664	12989	12612	12311	12054	12002	12085	12500	13801	14435	14866	14915	14943	15434	15809	15725	15328	14305	14166	15375	15254	15078	14938

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 8:58:27 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

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	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	35	35	35	35	35	35	36	20	20	21	20	37	37	37	23	24	24	23	23	23	23	23	23	23
KNYR	HY01	96	97	56	56	54	55	58	58	97	95	97	97	97	56	-1	-1	97	97	97	97	97	97	96	95
KNYR	HY02	58	0	0	0	58	60	59	67	57	59	70	98	62	57	83	98	98	98	98	98	98	98	98	98
KNYR	HY03	96	97	56	56	54	56	58	58	98	95	98	98	98	98	-1	-1	-1	98	98	98	98	98	98	98
KNYR	HY04	57	60	59	58	55	59	65	77	99	56	75	95	99	97	64	60	82	99	59	66	97	98	57	61
LPIA	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
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	-1	-1	18	-1	-1	-1	19	-1	-1	-1	19	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY04	21	21	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	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	9	0	0	0	0	0	0	0	0	0	0	0	0	0	4	25	16	16	25	25	25	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	81	82	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	87	87	35	35	34	35	35	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	82	82	33	33	32	33	33	83	84	83	83	30	29	30	32	32	0	0	0	0	0	0	0	0
TMGR	HY04	39	39	42	42	40	42	41	52	41	42	45	45	84	41	40	42	82	41	41	47	84	39	41	40
UJLI	HY01	81	-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	-1
UPIA	HY01	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	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		1088	818	513	511	518	570	581	515	574	535	543	580	581	621	386	300	349	621	540	500	559	578	486	497
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	1	3	3	5	9	20	21	22	24	16	22
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	8	14	18	13	29	12	29	31	22
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	13	10	17	25	31	17	15	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	13	11	22	9	25	18	10	11	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	17	22	28	32	31	35	42	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	11	15	18	23	24	28	25	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	12	17	25	18	24	39	38	31	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	5	24	28	20	21	36	40	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	16	22	28	31	32	41	41	18	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	19	23	25	30	28	28	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	19	25	31	36	40	42	47	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	19	27	35	26	34	24	52	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	10	16	24	33	36	26	34	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11	14	18	22	25	18	21	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	16	23	29	30	26	24	30	30	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	11	54	130	196	276	350	357	440	427	453	427
PCUF	CUFK	3	4	4	3	3	4	3	4	4	3	5	4	3	4	3	4	3	3	2	3	5	4	3	4
PCUF	CUFG	4	3	3	1	3	2	5	4	3	4	4	4	2	4	3	4	4	3	5	4	4	4	4	6
Total Co-Gen		7	7	7	4	6	6	8	8	7	7	9	8	5	9	8	7	9	4	7	7	8	7	7	5

Daily MW Generation on Wednesday

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																												
Total Gen		14440	14186	13706	13455	13018	12863	12655	12367	12342	12147	12093	12053	12058	12158	12090	12030	12460	13284	13856	14247	14455	14696	14895	14967	14976	14942	14995	15298	15468	15805	15788	15873	15753	15626	15440	14853	14420	14107	14240	15125	15416	15378	15360	15225	15146	15192	15021	14760				
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	0	0	0	
TIE-HVDC		31	31	31	30	31	31	30	30	31	31	30	30	30	29	32	31	31	31	29	29	31	30	31	30	30	31	31	30	30	77	31	30	30	30	30	30	30	30	30	30	30	29	29	31	31	30	30	29	29	31	31	30
TIE-PLTG		72	35	11	-4	0	-7	12	-75	1	-1	8	-30	26	-46	-25	-46	-72	17	24	-60	-9	-95	-3	-12	31	9	22	-37	3	81	-51	-40	-3	50	82	43	86	42	44	18	11	42	76	21	38	44	52	22				
Interconnection		102	66	42	26	29	23	43	-45	31	30	39	0	56	-16	5	-17	-40	48	55	-29	20	-67	29	18	61	38	52	-6	34	111	-21	37	28	80	112	73	115	72	74	48	41	72	106	50	68	75	83	52				
System Total		14338	14120	13664	13429	12989	12840	12612	12412	12311	12117	12054	12053	12002	12174	12085	12047	12500	13236	13801	14276	14435	14763	14866	14949	14915	14904	14943	15304	15434	15694	15809	15836	15725	15546	15328	14780	14305	14035	14166	15077	15375	15306	15254	15175	15078	15117	14938	14708				
SRev ST-Coal		166	155	375	513	740	775	815	829	732	781	737	737	702	541	733	735	739	592	449	572	511	446	450	483	524	495	284	189	152	138	144	131	138	122	471	518	517	523	218	156	157	141	139	153	138	138	418					
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		193	185	144	134	180	150	122	100	118	154	133	122	118	314	265	432	246	198	287	286	246	198	258	240	232	218	267	229	240	219	215	231	223	241	228	228	256	313	209	213	219	221	224	240	288	233	192	174				
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	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	-1	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	0
Syncon		338	651	738	738	587	738	738	738	738	587	738	738	738	738	688	940	1028	826	826	826	826	826	826	826	826	826	675	675	651	464	464	464	464	464	651	738	675	826	826	651	464	464	313	651	651	464	651	738				
Hydro		669	401	319	321	465	362	351	329	143	333	174	137	136	96	381	215	165	95	176	130	222	52	144	133	141	101	272	250	326	489	439	559	454	509	444	299	366	240	223	267	484	518	612	391	400	404	422	333				
S.Reserve Total		1366	1392	1576	1706	1972	2025	2026	1996	1731	1855	1782	1734	1729	1850	1875	2320	2174	1858	1881	1691	1715	1587	1674	1649	1682	1669	1709	1438	1406	1324	1256	1398	1271	1352	1445	1736	1815	1896	1781	1349	1323	1360	1290	1421	1492	1239	1403	1663				