

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,316 MW
Distillate	0 MW
Total TNB	2,316 MW
Total IPP	16,544 MW
Total Co-Gen	0 MW
Total System	21,994 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,892	4.45 %
Gas	48,534	15.56 %
Total TNB	62,426	20.01 %
ST-Coal	179,521	57.54 %
LSS	2,862	0.92 %
Gas	67,376	21.60 %
Total IPP	249,759	80.06 %
Co-Gen	162	0.05 %
Total Co-Gen	162	0.05 %
Total Generation	312,347	100.12 %
PLTG	-350	-0.11 %
HVDC	719	0.23 %
Interconnection	369	0.12 %
Net Energy	311,978	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:	00:00:00 Hour
Total Set On Bus	16,019 MW
TNB Generation	3,368 MW
IPP Generation	11,338 MW
Spinning Reserve	1,306 MW
Maximum Demand	14,719 MW
Net Energy	311,978 MWH
Load Factor	88.31 %

Fuel Cost

Total Cost:	48,413,282.17 RM
Cost per Unit	15.50 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	185
Hydro	211
Syncon	615
Thermal	551
Total	1,562

Time Weather Temperature

Afternoon	Rainy	30
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	183
Total TNB	214
CBPS	52
NPRI	164
PGLA	59
PLPS	4
Total IPP	280
Total Gas	493
Total Gas Required	493

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	14719	14141	13571	13101	12701	12390	12299	11925	11433	11865	12204	12487	12638	12793	13145	13148	12976	12679	12565	12903	14239	14215	14085	13861

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, September 2, 2021 8:56:30 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	
HTRG	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	0
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	36	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	35	35	35	35	35	35	35	36	37	21	21	21	21	21	22	23	22	23	22	23	22	23	21	22	21
KNYR	HY01	96	62	62	58	97	61	62	62	61	61	61	61	61	0	0	0	0	0	0	0	0	0	-1	-1	-1
KNYR	HY02	97	97	97	97	97	97	97	96	97	96	97	97	97	97	57	57	93	98	95	97	96	96	97	72	66
KNYR	HY03	98	98	97	94	98	96	96	95	95	95	95	95	95	55	55	99	99	99	99	99	99	99	99	99	99
KNYR	HY04	99	99	98	94	99	97	97	96	97	97	97	97	97	97	56	57	100	100	100	100	100	100	100	99	97
LPJA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	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	3
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	-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	0
SIHY	HY01	31	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	30	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	30	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	25	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	25	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17
SYPS	HY04	25	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17
TMGR	HY01	34	80	31	31	82	28	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	88	44	45	51	88	42	43	46	47	47	57	45	45	47	43	44	47	46	90	49	90	47	0	0	0
TMGR	HY03	33	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	34	32	29	30	83	28	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	48	84	44	41	42	84	42	41	
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	-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	-1
UPIA	HY01	5	5	6	5	6	5	5	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
UPIA	HY02	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		988	834	703	699	889	691	636	637	522	523	507	492	491	493	490	328	312	436	486	475	520	488	478	536	
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	18	18	17	23	13	20	27	25
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	11	14	20	15	28	30	31	31	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	17	18	27	20	32	24	28	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	17	6	5	8	14	42	29	16
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	15	24	27	27	34	36	43	30	39
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	8	11	3	19	22	25	12	10	19	9
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	18	10	11	19	41	40	47	44	48
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	12	14	24	15	12	14	21	19	2	2
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	15	20	27	33	36	39	24	16	35	9
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	13	19	17	25	29	30	27	29	13
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	14	23	21	38	40	19	23	50	50
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	16	11	12	14	17	26	45	46	16	20
SSL S	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	15	22	25	29	26	34	29	26	22
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	7	8	9	10	22	19	23	23
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	13	16	13	23	25	27	26	27	6	6
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	8	37	107	183	245	261	307	354	382	414	408	
PCUF	CUF G	4	3	4	5	3	3	3	4	3	3	2	3	5	3	4	4	4	4	3	3	5	5	4	4	3
PCUF	CUF K	3	2	3	4	2	3	3	3	3	3	4	3	4	3	3	4	3	4	2	2	2	2	4	2	2
Total Co-Gen		7	5	7	9	5	6	6	7	6	6	5	7	8	9	6	7	8	4	8	8	7	6	7	8	9

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																											
Total Gen		14713	14477	14132	13768	13624	13359	13162	12896	12719	12533	12419	12335	12341	12241	11994	11606	11444	11649	11835	12042	12176	12444	12498	12616	12680	12801	12832	13161	13233	13201	13147	13039	12965	12866	12687	12665	12599	12598	12784	13899	14275	14234	14188	14153	14054	13947	13858	13600			
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	30	30	30	30	30	30	30	31	31	30	30	30	30	30	29	29	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30	30	31	31	30	29	31	31	31	29	28	29	29	29	29	29	
TIE-PLTG		-36	1	-39	-58	23	20	30	-30	-12	-3	-2	17	12	13	40	4	-20	-21	-59	-6	-57	-13	-19	-50	12	2	9	52	58	-29	-30	-48	-41	-42	-22	-11	4	-33	-150	79	7	20	-58	-25	-60	-72	-32	-28	-28	-28	
Interconnection		-6	31	-9	-28	53	50	61	0	18	27	29	47	42	43	69	34	11	8	-30	24	-28	17	11	-20	42	32	39	82	88	1	-1	-17	-11	-13	8	19	34	-2	-119	110	36	51	-27	6	-31	-44	-3	1	1		
System Total		14719	14446	14141	13796	13571	13309	13101	12896	12701	12506	12390	12288	12299	12198	11925	11572	11433	11641	11865	12018	12204	12427	12487	12636	12638	12769	12793	13079	13145	13200	13148	13056	12976	12879	12679	12646	12565	12600	12903	13789	14239	14183	14215	14147	14085	13991	13861	13599	13599		
SRev ST-Coal		138	225	211	226	366	364	443	531	564	611	618	626	624	625	631	701	698	695	692	700	699	725	692	706	635	590	545	550	540	542	539	539	547	540	605	675	677	680	673	542	485	475	453	455	527	537	530	533	533		
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		265	254	487	688	565	844	643	735	726	740	720	781	765	765	823	826	788	720	715	541	482	165	144	145	146	153	207	112	204	198	255	199	213	214	161	367	514	457	504	127	197	173	186	254	175	130	133	136	136		
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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		651	651	651	651	651	651	738	738	825	825	825	825	825	825	825	674	825	825	825	638	638	551	551	551	551	551	551	425	551	551	551	400	738	738	839	839	839	904	839	651	651	738	839	826	826	739	739	675	675		
Hydro		252	181	226	230	40	238	120	119	105	104	120	135	136	134	137	350	215	91	41	103	58	177	100	192	259	267	274	123	144	147	159	266	143	143	49	91	136	137	46	201	202	330	238	292	250	234	232	329	329		
S.Reserve Total		1306	1311	1575	1795	1622	2097	1944	2123	2220	2280	2283	2367	2350	2349	2416	2551	2526	2331	2273	1982	1877	1618	1487	1594	1591	1561	1577	1210	1439	1438	1504	1404	1641	1635	1654	1972	2166	2178	2062	1521	1535	1716	1716	1827	1778	1640	1634	1673	1673		