

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,462 MW
Distillate	0 MW
Total TNB	2,462 MW
Total IPP	18,896 MW
Total Co-Gen	0 MW
Total System	25,069 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,024	5.70 %
Gas	46,819	15.69 %
Total TNB	63,843	21.39 %
ST-Coal	151,950	50.91 %
LSS	4,926	1.65 %
Gas	77,083	25.83 %
Total IPP	233,959	78.39 %
Co-Gen	798	0.27 %
Total Co-Gen	798	0.27 %
Total Generation	298,600	100.04 %
PLTG	398	0.13 %
EGAT	6	0.00 %
HVDC	-270	-0.09 %
Interconnection	134	0.04 %
Net Energy	298,466	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	19:30:00 Hour
Total Set On Bus	16,601 MW
TNB Generation	3,270 MW
IPP Generation	11,091 MW
Spinning Reserve	2,207 MW
Maximum Demand	14,389 MW
Net Energy	298,466 MWH
Load Factor	86.43 %

Fuel Cost

Total Cost:	100,894,129.43 RM
Cost per Unit	33.79 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,979
Hydro	255
Syncon	984
Thermal	739
Total	3,957

Time	Weather	Temperature
Afternoon	Rainy	28
Morning	Cloudy	30

Gas Usage

Station	(mmcsfd)
GLGR	45
TJGS	85
Total TNB	130
CBPS	36
EMPP	245
NPRI	117
PCGP	80
PLPS	37
SPGP	190
Total IPP	704
Total Gas	834

Total Gas Required	834
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Alternate Fuel Usage

Station	(mmcsfd)
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	13968	13377	12927	12430	12109	11840	11733	11556	10920	11047	11336	11369	11355	11585	11947	12176	12299	12528	12654	13862	14367	14061	13579	13257

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, December 2, 2022 3:40:27 PM
(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

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
KNYR	HY01	101	101	101	101	101	100	100	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
KNYR	HY02	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
KNYR	HY03	99	99	99	98	98	97	96	96	97	97	97	98	98	99	99	59	57	55	55	56	56	56	56	56
KNYR	HY04	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	60	60	60	59	61	60	61	60	60
LPIA	HY01	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	21	21	21	21	21	21	21	21	21
LPIA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	21	22	22	22	22	22	22	21	21	20	19	19
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	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	81	81	82	81	81
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	83	83	83	82	114
SIHY	HY01	50	50	50	49	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50
SIHY	HY02	50	50	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50
SYPS	HY01	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25
SYPS	HY03	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25
SYPS	HY04	17	17	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25
TMGR	HY01	-1	-1	0	0	0	-1	-1	-1	-1	-1	0	-1	-1	-1	-1	-1	-1	-1	-1	0	0	-1	-1	-1
TMGR	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
TMGR	HY04	41	44	42	41	41	41	42	41	41	41	41	41	41	40	38	37	35	39	41	40	41	41	41	42
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
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	6	5	5	5	5	6	5	5	5	6	5	6	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		754	758	756	746	745	744	592	590	591	592	591	615	595	593	430	427	420	425	432	430	431	428	428	430
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	4	6	10	13	21	21	23	25	25
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	16	14	19	27	29	34	33
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	18	22	24	28	26	29	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	14	17	15	22	23	22	35
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5	6	10	18	34	36	30	25
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	9	7	25	23	24	28	17
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	20	27	34	42	35	38	49	50
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8	12	14	24	18	26	26	28
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	8	12	13	17	17	12	13
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	16	32	50	57	51	73	55	49	91
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	17	26	32	35	28	39	43	41
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	18	22	25	28	22	30	17
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	16	30	43	65	66	72	89	96	100
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	13	19	23	23	18	29	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	14	32	37	19	40	32	36
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	8	37	58	74	51	73	64	80
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	28	33	60	54	70	69	100	109	88
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	8	13	18	26	33	48	47
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7	17	23	20	28	37	41	43
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	9	13	16	16	24	19	29
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	5	4	13	11	18	11	14
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	82	178	314	489	571	637	739	776	866
ESTL	ESTL	24	24	24	24	24	24	24	24	24	24	24	24	23	23	24	23	22	22	22	22	21	20	21	21
KHTC	BLK1	3	2	2	2	2	1	2	4	3	3	2	4	1	3	1	2	2	3	3	2	2	4	3	1

Daily MW Generation on Saturday

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	CUFG	6	5	5	4	4	4	3	5	6	5	5	5	5	5	4	5	4	5	4	6	4	5	6	5	5	5	4	5	4	5	4	4	5	5	4	5	4	4	5	4	5	5	5	4	4				
PCUF	CUFK	5	4	4	1	4	4	3	4	6	4	3	3	3	5	4	4	5	3	4	4	2	4	4	3	5	2	11	8	3	5	5	4	1	3	5	5	3	4	5	4	3	4	4	4	3	3	5	3	
Total Co-Gen		38	35	35	31	34	33	32	37	39	36	35	34	36	35	36	32	35	33	34	33	32	32	33	34	29	40	34	29	34	29	31	29	30	33	32	31	32	32	33	31	34	33	32	34	34	33	32		
Total Gen		14012	13789	13452	13244	12942	12725	12502	12327	12141	12016	11924	11818	11835	11812	11663	11242	10993	11041	11116	11167	11309	11355	11324	11308	11313	11385	11539	11759	11868	12017	12067	12190	12285	12448	12504	12607	12650	12974	13840	14394	14367	14248	14055	13958	13554	13438	13233	13146	
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			
TIE-HVDC		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30			
TIE-PLTG		14	12	45	73	-15	17	41	12	2	46	54	32	71	44	77	94	103	93	99	52	3	2	-16	16	-12	-33	-17	-39	-49	-63	-79	-23	16	7	6	-13	26	-35	8	35	30	14	23	4	5	7	6	3	
Interconnection		44	42	75	103	15	47	72	43	32	76	84	62	102	74	107	64	73	64	69	22	-27	-28	-45	-14	-42	-63	-46	-69	-79	-93	-109	-53	-14	-22	-24	-43	-4	-65	-22	5	0	-16	-6	-26	-25	-22	-24	-27	
System Total		13968	13747	13377	13141	12927	12678	12430	12284	12109	11940	11840	11756	11733	11738	11556	11178	10920	10977	11047	11145	11336	11383	11369	11322	11355	11448	11585	11828	11947	12110	12176	12243	12299	12470	12528	12650	12654	13039	13862	14389	14367	14264	14061	13984	13579	13460	13257	13173	
SRev ST-Coal		357	596	590	601	616	675	674	667	675	679	657	676	671	678	678	665	668	675	674	743	747	741	721	726	718	739	818	823	819	824	822	817	820	822	820	839	840	835	751	663	600	585	625	673	748	844	840	839	
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		
SRev CCGT-Gas		1603	1570	1565	1540	1833	1848	1722	1713	1862	1983	2098	2174	2197	2209	2340	2782	2934	2969	3023	2894	2770	2634	2775	2787	2808	2710	2389	2123	1977	1859	1665	1384	1184	1247	1128	1090	1143	1086	875	735	706	862	916	982	1139	857	842	897	
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	
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
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
Syncon		1104	1104	1016	1016	1016	1016	1104	1104	1104	1016	1104	1104	865	953	1104	1016	1104	1104	1104	1104	1104	1016	1016	1104	1104	1104	1104	1104	1104	953	1104	1104	1104	953	865	714	714	802	615	428	615	615	766	730	730	730	730	642	
Hydro		134	130	133	143	144	145	121	123	122	122	121	122	250	249	118	121	283	286	293	288	282	284	282	285	285	283	283	283	203	333	83	123	125	210	212	263	264	221	354	381	317	320	254	165	164	162	118	117	
S.Reserve Total		3198	3400	3391	3387	3696	3771	3621	3607	3763	3887	3980	4076	4070	4089	4240	4671	4989	5034	5094	5029	4902	4762	4882	4902	4915	4836	4594	4333	4103	3969	3674	3428	3233	3232	3112	2993	3048	2944	2595	2207	2238	2382	2561	2550	2781	2593	2530	2582	