

Daily System Generation Summary on Saturday

Saturday, October 22, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,922 MW
Distillate	0 MW
Total TNB	1,922 MW
Total IPP	17,882 MW
Total Co-Gen	0 MW
Total System	22,669 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,402	6.44 %
Gas	36,633	10.54 %
Total TNB	59,035	16.98 %
ST-Coal	214,302	61.65 %
LSS	4,570	1.31 %
Distillate	1,330	0.38 %
Gas	66,809	19.22 %
Total IPP	287,011	82.56 %
Co-Gen	620	0.18 %
Total Co-Gen	620	0.18 %
Total Generation	346,666	99.72 %
PLTG	712	0.20 %
HVDC	-1,684	-0.48 %
Interconnection	-972	-0.28 %
Net Energy	347,638	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	16,514 MW
TNB Generation	4,068 MW
IPP Generation	11,884 MW
Spinning Reserve	550 MW
Maximum Demand	16,072 MW
Net Energy	347,638 MWH
Load Factor	90.13 %

Fuel Cost

Total Cost:	122,647,307.20 RM
Cost per Unit	35.38 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	664
Hydro	358
Syncon	545
Thermal	262
Total	1,829

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	34
SRDG	4
TJGS	117
Total TNB	155
EMPP	238
NPRI	70
PCGP	82
PLPS	46
SPGP	99
Total IPP	535
Total Gas	690

Total Gas Required 701

Alternate Fuel Usage

Station	(mmcsfd)
PLPS	11
Total	11

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	15276	14529	14121	13689	13422	13012	12936	12791	12660	13759	14405	14772	14667	14493	14876	15163	15368	15191	14999	15539	15958	15657	15360	14899

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, November 2, 2022 5:01:09 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

1 of 3

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
HTRG	HY02	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
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
KNYR	HY01	99	99	99	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
KNYR	HY02	104	103	104	103	104	103	103	103	104	103	104	104	104	104	103	103	103	103	103	103	103	103	103	103
KNYR	HY03	101	101	101	100	100	99	99	98	98	99	99	99	100	101	101	101	101	101	101	100	99	98	98	101
KNYR	HY04	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
LPIA	HY02	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
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	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
PGAU	HY02	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
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	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
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	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	59	41	41	40	42	80	44	80	43	42	43	41	43	80	42	42	42	43	43	43	42	42	81	43
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	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
TMGR	HY04	-1	31	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	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		849	862	863	829	831	867	831	833	776	774	776	774	777	815	777	808	809	809	819	875	836	748	737	739
PLPS	GT11	139	139	139	140	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT12	143	144	142	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	134	134	135	135	138	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Distillate		416	417	416	303	181	42	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	2	3	2	4	12	14	20	22	20	17
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	8	16	14	20	30	25	28
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	7	10	15	16	17	22	16	18	14
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	32	34	36	40	42	41	45
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	10	16	26	41	30	33	20
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	6	12	18	18	21	21	19	17
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	11	14	31	32	23	28	35
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	5	10	12	12	10	17	18	29
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	12	24	24	34	23	28	43	45
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	18	26	34	42	53	61	42	47
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	16	18	18	20	28	19	26
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	8	12	18	22	20	16	16
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	12	18	19	25	45	82	80	67	54
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	7	8	16	17	25	23	18
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	13	16	19	7	3	3	4
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	56	22	27	18	8	4	4	5

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																								
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	12	28	33	43	63	90	111	101	107	52	84	93	52	42	36	21	21	14	11	11	6	3	1	1	1	0	0	0	0	0	0	0		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	15	22	20	17	40	43	31	52	26	52	52	40	30	45	29	18	11	13	10	1	0	0	0	0	0	0	0	0	0	0	0	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	13	13	21	18	18	14	16	27	31	26	28	25	24	36	21	16	13	11	6	2	0	0	0	0	0	0	0	0	0	0	0		
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4	9	6	10	9	6	2	3	2	4	4	7	8	7	4	3	4	3	3	1	0	0	0	0	0	0	0	0	0	0	0		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	9	12	13	20	30	29	30	30	30	30	8	30	14	10	8	5	2	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	31	84	216	258	349	449	526	623	662	592	592	635	614	643	569	528	491	404	354	241	165	96	23	2	2	1	0	0	0	0	0	0	0	0	
ESTL	ESTL	20	9	9	5	6	17	17	20	14	12	12	12	20	16	17	6	13	17	10	17	1	13	13	0	13	0	16	17	18	17	17	19	17	12	0	0	9	17	5	3	10	12	17	15	17	16	16	
KHTC	BLK1	2	0	3	1	1	3	1	2	2	4	3	1	1	6	3	2	3	1	2	2	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	4	4	5	5	5	3	4	4	4	5	4	5	5	4	4	4	5	4	4	5	5	5	5	4	5	4	4	3	5	5	7	4	3	4	5	5	4	5	5	5	4	5	5	5	5			
PCUF	CUFK	4	4	4	3	4	2	4	3	4	4	5	3	3	5	4	4	4	5	4	4	4	5	4	5	4	3	3	2	3	4	5	4	3	4	4	5	3	4	4	4	3	3	4	3	4	5		
PFTZ	PFTZ	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	0	0	0		
Total Co-Gen		35	22	26	19	21	30	31	34	29	30	29	26	34	36	33	21	29	32	26	32	18	30	28	15	27	14	30	29	30	27	30	33	34	25	11	13	23	32	17	12	19	21	24	23	25	25	25	26
Total Gen		15251	14825	14466	14279	14051	13855	13642	13473	13353	13079	12976	12970	12920	12950	12751	12540	12583	13146	13618	13959	14333	14622	14701	14822	14610	14392	14496	14691	14870	15066	15118	15232	15387	15339	15173	15001	15005	15072	15496	15964	15909	15813	15664	15602	15331	15143	14908	14756
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		-47	-49	-49	-28	-29	-28	-28	-28	-31	-29	-31	-27	-30	-27	-29	-28	-29	-98	-97	-96	-96	-96	-97	-99	-99	-96	-99	-96	-99	-98	-99	-96	-99	-98	-98	-97	-97	-97	-100	-98	-99	-97	-97	-97	-97	-30	-30	
TIE-PLTG		22	-13	-14	-2	-42	-13	-19	-9	-41	-22	-7	-1	11	-42	-12	30	-49	-48	-43	6	25	26	25	-9	42	55	99	95	90	102	53	79	115	107	81	67	103	89	54	-8	49	80	104	77	69	17	39	4
Interconnection		-25	-62	-63	-30	-70	-41	-47	-37	-69	-53	-36	-31	-16	-72	-40	2	-77	-77	-141	-91	-72	-71	-71	-106	-57	-43	3	-4	-6	3	-45	-20	19	8	-18	-31	6	-8	-43	-108	-49	-19	7	-20	-29	-79	9	-26
System Total		15276	14887	14529	14309	14121	13896	13689	13510	13422	13132	13012	13001	12936	13022	12791	12538	12660	13223	13759	14050	14405	14693	14772	14928	14667	14435	14493	14695	14876	15063	15163	15252	15368	15331	15191	15032	14999	15080	15539	16072	15958	15832	15657	15622	15360	15222	14899	14782
SRev ST-Coal		202	209	205	230	204	398	460	483	445	430	495	446	460	495	457	467	453	442	476	493	491	400	243	250	252	252	256	282	276	260	174	153	143	152	159	128	205	185	156	128	157	161	162	211	161	153	185	168
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		908	819	1186	1194	1257	1304	1300	1447	1549	1833	1966	2015	2051	1660	1839	2088	2112	1850	1388	1184	905	708	810	710	844	1049	1021	777	626	409	336	247	170	165	172	206	302	802	606	324	503	387	444	286	498	417	414	322
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	
SRev Distillate		13	12	13	126	105	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
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
Syncon		550	462	462	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	827	827	827	676	676	676	676	676	676	676	676	374	374	374	588	21	21	0	0	0	187	187	313	313	739	739	827
Hydro		458	533	532	478	476	440	476	474	483	485	483	485	482	444	482	481	480	480	470	434	473	284	295	293	272	272	291	292	300	260	289	291	439	424	473	354	369	224	240	100	397	406	499	394	435	254	292	251
S.Reserve Total		2131	2035	2398	2578	2592	2700	2786	2954	3027	3298	3494	3496	3543	3149	3328	3586	3595	3322	2884	2661	2419	2219	2175	2080	2084	2289	2244	2027	1878	1605	1475	1367	1126	1115	1178	1276	897	1232	1003	550	1055	1137	1289	1204	1407	1563	1630	1568