

Daily System Generation Summary on Monday

Monday, November 28, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,512 MW
Distillate	0 MW
Total TNB	2,512 MW
Total IPP	18,346 MW
Total Co-Gen	0 MW
Total System	24,365 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,060	5.80 %
Gas	41,116	12.52 %
Total TNB	60,176	18.32 %
ST-Coal	185,560	56.50 %
LSS	5,968	1.82 %
Gas	75,827	23.09 %
Total IPP	267,355	81.40 %
Co-Gen	676	0.21 %
Total Co-Gen	676	0.21 %
Total Generation	328,207	99.93 %
PLTG	-231	-0.07 %
HVDC	8	0.00 %
Interconnection	-223	-0.07 %
Net Energy	328,430	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	17,566 MW
TNB Generation	3,421 MW
IPP Generation	12,500 MW
Spinning Reserve	1,623 MW
Maximum Demand	15,916 MW
Net Energy	328,430 MWH
Load Factor	85.98 %

Fuel Cost

Total Cost:	124,435,495.91 RM
Cost per Unit	37.91 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,753
Hydro	436
Syncon	719
Thermal	301
Total	3,209

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
TJGS	85
Total TNB	85

CBPS	35
EMPP	235
NPRI	122
PCGP	76
PLPS	47
SPGP	185
Total IPP	700
Total Gas	785

Total Gas Required	785
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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	13709	13085	12684	12305	11983	11794	11813	11769	11732	12394	13171	13598	13751	13881	14368	14598	14805	14612	14379	15248	15891	15795	15388	14912

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, December 2, 2022 11:49:06 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

[illegible]

Daily MW Generation on Monday

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																								
LPIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	15	16	16	16	16	20	23	24	28	28	28	19	22	22	22	22	22	23	23	23	23	23	23	23	23	23	0	0							
LPIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	15	16	16	16	16	21	23	24	19	19	19	28	22	22	22	22	22	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	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	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	81	81	81	81	81	81	81	-1	-1					
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	81	81	81	81	81	81	81	0	0				
PGAU	HY03	21	21	21	21	21	21	21	21	21	21	22	21	21	21	21	21	21	21	21	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	21	21	21	21	21	22	21	21	21	21	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21					
SIHY	HY01	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
SYPS	HY01	26	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17						
SYPS	HY03	25	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
SYPS	HY04	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25						
TMGR	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1						
TMGR	HY04	40	43	43	43	39	41	46	42	53	55	38	59	43	41	42	43	41	45	73	84	59	46	46	81	41	44	79	45	42	41	83	42	83	46	75	72	83	74	81	76	79	44	78	42	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	-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	-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	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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					
Total Hydro		760	671	596	595	590	656	597	592	603	605	608	695	593	592	623	644	641	559	613	646	656	644	642	677	656	639	671	660	678	678	678	687	632	674	633	715	752	782	1037	1507	1503	1509	1474	1509	1356	1266	1074	1003
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	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	7	11	15	18	20	22	23	24	25	25	25	26	26	14	24	21	17	15	11	2	0	0	0	0	0	0	0	0	0	0	0	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	17	21	25	28	30	33	33	35	36	35	22	31	26	28	22	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	13	18	22	25	27	29	31	29	32	10	17	32	24	28	24	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13	19	26	30	34	33	16	12	15	32	3	11	47	33	19	16	12	9	11	5	0	0	0	0	0	0	0	0	0	0	0	0	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	10	13	7	18	15	17	17	12	7	23	18	21	7	18	8	3	9	2	0	0	0	0	0	0	0	0	0	0	0	0		
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	12	16	5	16	24	26	27	28	28	27	25	24	21	18	16	12	6	0	0	0	0	0	0	0	0	0	0	0	0		
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	16	27	33	37	41	44	46	47	43	45	45	31	42	39	36	32	24	7	0	0	0	0	0	0	0	0	0	0	0		
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	11	19	23	26	29	30	30	30	21	30	24	20	30	24	15	2	4	1	0	0	0	0	0	0	0	0	0	0	0		
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	18	25	30	27	24	32	36	36	49	7	47	42	12	2	3	5	6	1	1	0	0	0	0	0	0	0	0	0	0	0	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	20	33	45	56	65	73	78	83	85	85	56	67	81	71	76	54	48	11	0	0	0	0	0	0	0	0	0	0	0	0	0		
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	12	20	25	30	34	37	39	42	43	44	44	43	43	43	35	37	21	7	1	1	1	0	0	0	0	0	0	0	0	0	0		
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	11	16	20	24	26	28	29	30	26	30	30	11	17	27	27	19	5	0	0	0	0	0	0	0	0	0	0	0	0		
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	9	20	22	26	29	30	30	30	30	30	28	24	30	24	16	1	2	2	2	4	1	0	0	0	0	0	0	0	0		
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	6	26	32	40	45	39	42	51	51	51	45	50	47	45	40	35	25	18	17	3	0	0	0	0	0	0	0	0	0	0		
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	40	79	83	60	75	67	72	85	90	92	92	92	91	90	81	86	80	54	45	22	0	0	0	0	0	0	0	0	0	0		
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	14	40	66	77	82	97	107	107	107	109	109	109	109	111	111	97	87	72	51	35	4	2	2	2	2	0	0	0	0	0	0		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	16	24	31	37	43	47	52	39	32	50	23	8	11	13	8	1	8	22	23	14	3	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	0	2	5	11	18	14	31	35	39</																										

Daily MW Generation on Monday

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 Co-Gen		23	31	36	35	35	33	23	24	21	21	34	34	33	33	34	33	26	35	21	21	26	29	32	19	23	23	32	35	30	31	33	29	30	20	30	25	19	25	29	22	18	22	24	29	38	31	33	33
Total Gen		13659	13281	13003	12838	12670	12528	12257	12125	11885	11862	11736	11817	11781	11843	11710	11523	11761	12098	12379	12739	13160	13406	13575	13763	13755	13756	13902	14178	14433	14695	14568	14810	14796	14803	14613	14547	14453	14600	15360	15943	15882	15887	15810	15738	15439	15246	14897	14686
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		-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	-30	30	30	30	30	30	30	30	30	30	30	-28	-28	-28	-28	-28	-28	-28	-28	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		-20	-60	-52	-10	16	22	-18	-26	-68	-89	-28	-73	-2	-82	-29	-14	-1	-55	-45	-64	-41	16	5	-28	32	43	49	-17	93	132	-2	-19	-39	-53	-29	37	44	5	82	-3	-39	-25	-15	17	21	-16	-45	31
Interconnection		-50	-90	-82	-40	-14	-8	-48	-56	-98	-119	-58	-103	-32	-112	-59	16	29	-25	-15	-34	-11	46	-23	-56	4	15	21	-45	65	104	-30	11	-9	-23	1	67	74	35	112	27	-9	5	15	47	51	14	-15	61
System Total		13709	13371	13085	12878	12684	12536	12305	12181	11983	11981	11794	11920	11813	11955	11769	11507	11732	12123	12394	12773	13171	13360	13598	13819	13751	13741	13881	14223	14368	14591	14598	14799	14805	14826	14612	14480	14379	14565	15248	15916	15891	15882	15795	15691	15388	15232	14912	14625
SRev ST-Coal		544	435	440	440	457	578	679	508	513	511	515	512	512	508	496	560	539	509	517	522	506	475	419	360	343	346	346	343	345	305	289	296	286	291	282	283	282	346	187	97	96	121	106	81	85	92	106	65
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
SRev CCGT-Gas		2139	2340	2546	2406	2561	2355	2266	2341	2576	2571	2724	2761	2698	2639	2842	2947	2842	2604	2534	2350	2382	2620	2737	2717	2759	2758	2680	2280	2092	1835	1809	1504	1409	1289	1307	1346	1348	1120	770	739	793	771	830	717	868	957	1102	1283
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
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		852	852	852	852	852	852	852	852	852	852	701	701	978	978	978	852	852	852	852	852	852	852	852	852	852	701	852	852	852	852	852	978	1104	1104	1104	1104	953	730	252	252	252	252	252	252	252	403	579	
Hydro		378	317	317	318	323	382	316	321	310	308	456	494	319	320	343	573	576	433	404	396	386	398	400	365	537	403	371	533	414	414	414	355	334	291	332	350	313	434	527	535	539	533	568	533	686	626	553	535
S.Reserve Total		3913	3944	4155	4016	4193	4167	4113	4022	4251	4242	4396	4468	4507	4445	4659	4932	4809	4398	4307	4120	4126	4345	4408	4294	4340	4359	4249	3857	3703	3406	3364	3007	3007	2975	3025	3083	3047	2853	2214	1623	1680	1677	1756	1583	1891	1927	2251	2462