

Daily System Generation Summary on Tuesday

Tuesday, December 21, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,533 MW
Distillate	0 MW
Total TNB	2,533 MW
Total IPP	15,112 MW
Total Co-Gen	0 MW
Total System	20,488 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,643	6.12 %
Gas	38,538	10.90 %
Total TNB	60,181	17.02 %
ST-Coal	170,223	48.15 %
LSS	2,493	0.71 %
Gas	120,712	34.14 %
Total IPP	293,428	83.00 %
Co-Gen	1,144	0.32 %
Total Co-Gen	1,144	0.32 %
Total Generation	354,753	100.34 %
PLTG	494	0.14 %
HVDC	719	0.20 %
Interconnection	1,213	0.34 %
Net Energy	353,540	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:	15:00:00 Hour
Total Set On Bus	18,238 MW
TNB Generation	2,830 MW
IPP Generation	13,776 MW
Spinning Reserve	1,581 MW
Maximum Demand	16,609 MW
Net Energy	353,540 MWH
Load Factor	88.69 %

Fuel Cost

Total Cost:	71,639,104.97 RM
Cost per Unit	20.19 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	327
Hydro	671
Syncon	270
Thermal	344
Total	1,612

Time Weather Temperature

Afternoon	Hot	33
Morning	Cloudy	25

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	14077	13345	13066	12606	12284	12077	12199	12361	12877	14526	15466	15892	15888	15815	16218	16609	16488	16279	15529	15472	16359	16126	15581	15403

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:51:52 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

1 of 3

Daily MW Generation on Tuesday

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	HY01	-1	-1	-1	-1	62	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	125	124	124	124	124	62	63	-1		
HTRG	HY02	124	63	62	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
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	7	7	7	7	7		
HTRG	HY04	7	7	7	7	7	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	21	21	21	21	21	21	21	21	21	21	21	21	21	22	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34		
KNRG	HY02	23	23	23	23	23	23	22	21	22	22	22	22	22	22	36	36	36	35	35	35	35	35	35	35	35	35	35	35	35	35	
KNRG	HY03	21	21	22	21	21	21	21	20	21	21	21	21	21	22	35	34	34	35	34	34	34	34	34	34	34	34	34	34	34	34	
KNYR	HY01	98	58	60	59	57	58	57	56	56	56	58	58	59	55	56	98	61	57	56	98	61	59	59	57	55	61	62	59	57	57	
KNYR	HY02	98	60	61	60	59	58	58	57	57	57	59	59	60	57	100	62	59	57	101	62	60	60	58	56	61	63	60	101	101	101	
KNYR	HY03	98	49	51	50	50	50	49	49	49	49	51	51	52	48	49	99	61	99	97	99	99	59	60	57	55	61	62	59	62	61	
KNYR	HY04	58	59	99	75	58	60	59	59	57	57	62	59	90	59	66	83	100	58	56	99	100	89	61	60	57	96	100	85	83	99	
LPIA	HY01	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
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	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	3	3	3	3	3	3	
PGAU	HY01	0	0	0	0	0	-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	21	21	21	21	21	21	21	21	21	21	21	21	21	21	156	159	159	159	158	158	158	158	158	158	158	158	158	158	158	158	
PGAU	HY04	22	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
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	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	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	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	0	0	0	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	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	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	0	0	0	0	0	0	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY02	32	-1	-1	-1	35	34	36	34	35	36	36	36	36	36	32	36	36	35	34	85	85	85	32	30	29	-1	-1	33	33	33	
TMGR	HY03	30	30	30	30	33	25	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	81	82	82	82	32	30	28	-1	0	0	32	32	32	33	
TMGR	HY04	41	41	83	61	41	39	45	39	42	42	46	45	81	47	37	73	83	40	82	82	76	41	39	37	-1	-1	32	66	82	75	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	85	86	99	92	91	87	83	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY02	89	92	121	98	93	87	95	85	89	90	-1	-1	-1	-1	-1	-1	-1	-1	93	0	0	84	83	96	97	94	95	95	93	95	
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	
UPIA	HY02	5	5	5	5	5	5	5	5	6	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Total Hydro		891	673	792	655	712	696	619	596	605	606	515	531	528	622	524	528	720	796	892	886	1348	1362	1294	1127	1171	1015	919	872	910	1076	1140
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	10	10	16	18	20	23	25	26	27	28	26	14	12	11	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	5	10	10	7	7	7	7	4	9	10	15	12	10	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	18	11	8	5	8	19	26	21	20	16	14	12	8	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	17	24	36	38	35	30	19	48	47	15	16	42	40	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	10	12	19	20	26	26	26	11	23	17	27	15	17	23	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	14	8	22	13	13	11	5	4	4	7	9	7	13	15	14	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	11	15	20	13	12	15	8	5	5	6	7	11	11	4	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	11	9	34	36	40	39	45	47	28	25	31	42	30	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	14	22	18	24	6	9	17	27	37	34	20	15	12	8	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	5	11	13	18	27	24	28	30	16	20	26	14	28	9	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	14	20	30	34	39	43	43	42	51	50	49	48	50	44	
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	8	14	15	21	36	44	33	33	40	33	30	28	28	6	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	10	14	18	21	15	13	14	16	14	6	8	11	9	15	

Daily MW Generation on Tuesday

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	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	15	23	27	30	30	30	30	30	25	17	30	30	30	30	20	30	30	23	14	8	2	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	0	0	4	50	113	157	226	275	307	316	321	328	327	337	333	301	288	303	247	236	203	144	99	56	20	1	0	0	0	0	0	0	0	0	0
PCUF	CUFG	29	28	28	29	29	28	29	29	28	28	29	28	29	29	28	28	28	28	18	6	4	15	15	14	19	19	22	26	26	27	24	26	26	25	23	24	25	25	25	27	27	6	4	5	14	28	28	
PCUF	CUFK	24	24	21	24	24	24	23	24	24	25	24	24	22	24	23	23	25	22	23	24	24	23	23	23	25	24	24	25	24	25	25	25	26	26	25	24	25	25	25	25	25	25	25	25	24	25	26	
Total Co-Gen		53	52	49	53	53	52	52	53	53	52	53	50	53	52	52	52	51	41	29	27	40	39	43	43	47	50	51	52	49	52	51	50	47	49	50	50	52	52	31	29	29	38	53	54				
Total Gen		14190	13863	13431	13248	13109	12870	12634	12528	12330	12263	12148	12186	12204	12413	12370	12609	12879	14018	14577	14985	15432	15651	15932	16058	15943	15727	15848	16028	16260	16579	16657	16638	16565	16589	16455	16111	15673	15547	15617	16463	16454	16273	16168	15973	15666	15512	15466	15226
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	
TIE-HVDC		29	31	31	31	30	30	29	31	31	32	30	29	29	32	31	29	31	31	29	31	29	29	29	29	29	29	31	31	29	29	29	29	29	29	31	31	29	29	31	29	31	31	30	30	29	29		
TIE-PLTG		84	8	55	-21	12	52	-2	15	14	-1	41	-5	-24	-19	-22	9	-30	-56	23	-39	-65	-67	11	20	26	37	4	19	11	-25	20	8	48	66	147	72	112	42	116	32	64	-57	11	37	55	22	33	94
Interconnection		113	40	86	10	43	82	28	47	46	30	71	24	5	12	9	37	2	-25	51	-8	-34	-38	40	49	55	66	33	50	42	4	48	37	77	94	176	101	144	73	145	61	95	-28	42	68	85	52	63	123
System Total		14077	13823	13345	13238	13066	12788	12606	12481	12284	12233	12077	12162	12199	12401	12361	12572	12877	14043	14526	14993	15466	15689	15892	16009	15888	15661	15815	15978	16218	16575	16609	16601	16488	16495	16279	16010	15529	15474	15472	16402	16359	16301	16126	15905	15581	15460	15403	15103
SRev ST-Coal		590	766	833	835	764	813	753	741	764	813	813	812	813	812	813	808	810	663	526	513	459	436	318	385	446	454	437	437	396	376	383	392	380	383	377	114	151	316	240	117	132	161	159	154	170	117	118	108
SRev CCGT-Gas		199	178	264	273	210	312	387	473	575	560	689	671	787	681	721	881	512	144	386	366	439	590	849	769	583	340	196	189	312	171	161	137	183	168	191	483	685	621	632	434	192	152	186	180	205	174	192	283
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 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 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 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		400	488	488	614	400	421	635	635	635	635	822	822	696	675	826	826	826	639	551	464	464	277	126	126	277	464	727	639	464	364	277	126	277	277	277	464	738	738	738	338	338	151	0	151	151	525	525	651
Hydro		650	780	661	672	829	844	707	730	721	720	624	608	612	539	616	612	420	631	671	678	266	439	572	739	730	699	432	416	553	773	760	894	772	722	787	702	567	570	553	681	554	539	757	775	780	606	642	570
S.Reserve Total		1839	2212	2246	2394	2203	2390	2482	2579	2695	2728	2948	2913	2908	2707	2976	3127	2568	2077	2134	2021	1628	1742	1865	2019	2036	1957	1792	1681	1725	1684	1581	1549	1612	1550	1632	1763	2141	2245	2163	1570	1216	1003	1102	1260	1306	1422	1477	1698