

Daily System Generation Summary on Sunday

Sunday, December 12, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,497 MW
Distillate	0 MW
Total TNB	2,497 MW
Total IPP	15,555 MW
Total Co-Gen	0 MW
Total System	20,769 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,254	3.83 %
Gas	32,551	10.16 %
Total TNB	44,805	13.99 %
ST-Coal	191,750	59.86 %
LSS	3,358	1.05 %
Gas	79,791	24.91 %
Total IPP	274,899	85.81 %
Co-Gen	1,295	0.40 %
Total Co-Gen	1,295	0.40 %
Total Generation	320,999	100.20 %
PLTG	-70	-0.02 %
HVDC	724	0.23 %
Interconnection	654	0.20 %
Net Energy	320,345	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:	20:00:00 Hour
Total Set On Bus	16,568 MW
TNB Generation	3,262 MW
IPP Generation	11,921 MW
Spinning Reserve	1,331 MW
Maximum Demand	15,205 MW
Net Energy	320,345 MWH
Load Factor	87.78 %

Fuel Cost

Total Cost:	68,476,208.40 RM
Cost per Unit	21.32 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	525
Hydro	298
Syncon	712
Thermal	612
Total	2,147

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	23

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	82
Total TNB	113
CBPS	45
NPRI	140
PGLA	55
PLPS	41
Total IPP	282
Total Gas	395
Total Gas Required	395

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	14265	13658	13161	12646	12310	12166	12172	12021	11575	12146	12735	13182	13096	13151	13405	13766	13800	13686	13463	14225	15205	15072	14872	14576

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:40:54 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

Daily MW Generation on Sunday

[illegible]

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	HY04	3	3	3	3	3	4	4	4	4	3	3	3	3	3	3	3	3	3	4	4	4	4	3	3	3	3	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	
KNRG	HY03	20	20	20	20	21	21	21	21	20	21	20	21	20	20	20	21	20	21	20	21	21	21	20	21	20	20	
KNYR	HY01	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	-1	60	61	97	96	96	96	
KNYR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	97	97	97	98		
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	96	96	96	96	96		
KNYR	HY04	60	57	77	57	101	66	80	86	67	57	73	58	62	61	59	60	60	62	60	60	58	63	56	59	61	59	
LPIA	HY01	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		
LPIA	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	20	20	20	20	20	20		
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	19	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	18	18	-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	19	0	0	0	0	0	0		
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	0		
SIHY	HY01	31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	48	48	31	31		
SIHY	HY02	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	30	30	50	50		
SIHY	HY03	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	30	30	50	50		
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	0	0		
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	0		
SYPS	HY03	19	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	30	30	50	50		
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	0		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	77	71	72	-1		
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	35	36	35	35	86	32	34	85	85		
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	78	70	78	78		
TMGR	HY04	47	43	67	37	84	48	55	64	48	40	52	41	61	41	41	42	42	43	41	41	44	40	42	40	42	42	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	146	183	183	97		
UJLI	HY02	90	-1	-1	-1	-1	-1	96	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	151	186	186	129	99		
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		
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		
Total Hydro		512	355	385	263	316	223	246	358	226	206	235	207	276	212	212	209	210	210	216	227	252	258	249	258	247	253	
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	4	6	9	10	17	7	15	7	7	11	11	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	15	18	26	27	30	24	18	32	32	10	14	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	17	22	26	29	32	32	32	32	30	29	6	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	15	18	27	36	32	45	34	26	17	16	12	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	18	19	24	19	29	29	27	21	7	11	8	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	13	21	27	32	37	42	46	48	45	23	50	42	35	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	8	12	13	16	14	15	15	30	23	16	27	21	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	9	13	17	24	31	32	29	40	38	46	26	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	11	17	23	30	34	38	41	42	44	45	46	44	43	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	8	12	17	21	25	28	30	30	30	30	30	20	29	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	13	24	30	35	40	41	40	38	50	43	42	44	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	17	22	28	35	35	39	22	40	38	35	32	44	
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	13	24	29	33	37	38	40	42	43	43	34	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	9	14	18	13	12	24	26	19	28	29	21	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	4	9	11	16	17	20	21	15	14	13	12	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	7	48	125	189	261	317	378	414	444	462	484	455	482	445	
PCUF	CUFG	29	29	29	28	27	28	28	28	27	29	27	29	29	29	31	28	29	26	29	29	27	28	28	29	29	28	28

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	
PCUF	CUFK	26	26	26	25	25	25	27	26	26	25	27	26	27	28	25	29	24	27	23	26	27	25	26	25	23	26	25	25	24	24	25	25	24	26	25	26	25	26	27	27	26	26	25	25	26	28	26	24
Total Co-Gen		55	55	55	53	52	53	55	54	53	54	54	55	56	57	54	60	52	56	49	55	56	52	54	53	52	55	53	54	52	52	55	53	53	55	54	55	53	54	56	54	54	55	52	53	54	56	54	52
Total Gen		14268	13875	13643	13357	13198	12960	12604	12629	12361	12262	12173	12151	12193	12154	12065	11574	11651	11986	12229	12505	12760	13060	13208	13292	13115	13044	13141	13332	13462	13654	13754	13777	13858	13858	13703	13520	13514	13681	14243	15089	15244	15126	15137	15050	14931	14702	14634	14463
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	31	31	30	30	30	30	31	31	30	30	30	29	29	31	31	31	30	31	31	30	30	30	30	31	31	31	31	30	30	30	30	30	30	30	30	30	30	31	31	30	30	30	30		
TIE-PLTG		-27	4	-45	76	7	-28	-72	51	21	4	-24	3	-9	-1	14	-32	46	31	52	13	-5	10	-5	-31	-11	-73	-41	-32	26	-6	-43	-18	29	1	-13	-63	21	44	-12	51	9	-49	35	-66	28	-34	28	-6
Interconnection		3	34	-15	107	37	3	-42	81	51	35	7	33	21	29	44	-2	76	61	83	44	25	41	26	-1	19	-42	-10	-2	57	25	-12	12	58	31	17	-33	51	74	18	81	39	-19	65	-35	59	-4	58	25
System Total		14265	13841	13658	13250	13161	12957	12646	12548	12310	12227	12166	12118	12172	12125	12021	11576	11575	11925	12146	12461	12735	13019	13182	13293	13096	13086	13151	13334	13405	13629	13766	13765	13800	13827	13686	13553	13463	13607	14225	15008	15205	15145	15072	15085	14872	14706	14576	14438
SRev ST-Coal		881	887	911	837	888	888	917	927	924	923	924	926	921	856	858	898	901	903	901	862	812	822	710	670	680	785	734	605	610	604	612	551	571	846	612	678	635	599	785	677	630	617	476	464	473	468	488	496
SRev CCGT-Gas		736	760	765	938	799	848	894	648	714	776	842	838	763	816	904	1011	937	828	673	673	586	745	740	678	948	725	649	598	912	625	659	669	639	615	463	393	342	199	160	153	156	99	116	93	102	106	120	98
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	
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 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 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	
Syncon		740	1028	1028	877	1028	1028	1028	841	1028	1028	1028	1028	877	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	789	789	940	940	940	940	940	940	839	940	688	464	151	151	151	151	238	238	326	362	700	
Hydro		338	207	189	312	85	140	117	192	137	157	128	156	238	151	151	154	153	153	147	156	155	149	158	149	160	159	156	340	324	152	173	201	181	167	192	93	201	366	276	336	403	392	557	598	675	634	650	260
S.Reserve Total		2695	2882	2893	2964	2800	2904	2956	2608	2803	2884	2922	2948	2799	2851	2941	3091	3019	2912	2749	2719	2581	2744	2636	2525	2816	2697	2567	2332	2635	2321	2384	2361	2331	2568	2207	2003	2118	1852	1685	1317	1340	1259	1300	1393	1488	1534	1620	1554