

Daily System Generation Summary on Sunday

Sunday, March 28, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,336 MW
Distillate	0 MW
Total TNB	2,336 MW
Total IPP	17,229 MW
Total Co-Gen	0 MW
Total System	23,544 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,619	3.84 %
Gas	56,291	17.14 %
Total TNB	68,910	20.98 %
ST-Coal	215,733	65.68 %
LSS	3,160	0.96 %
Gas	41,350	12.59 %
Total IPP	260,243	79.23 %
Co-Gen	180	0.05 %
Total Co-Gen	180	0.05 %
Total Generation	329,333	100.26 %
PLTG	133	0.04 %
HVDC	717	0.22 %
Interconnection	850	0.26 %
Net Energy	328,483	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:	21:00:00 Hour
Total Set On Bus	16,963 MW
TNB Generation	4,156 MW
IPP Generation	11,590 MW
Spinning Reserve	1,211 MW
Maximum Demand	15,704 MW
Net Energy	328,483 MWH
Load Factor	87.15 %

Fuel Cost

Total Cost:	41,185,862.21 RM
Cost per Unit	12.49 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	350
Hydro	294
Syncon	463
Thermal	469
Total	1,576

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	138
Total TNB	185
CBPS	48
NPRI	146
YPKA	2
Total IPP	196
Total Gas	381
Total Gas Required	381

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	14465	13849	13360	12858	12513	12331	12352	12049	11599	12182	12913	13471	13611	13584	13996	14130	14460	14214	14009	14282	15680	15704	15440	15352

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:56:04 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Sunday

		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																								
KNRG		HY03	20	20	21	20	21	21	20	20	22	22	21	21	21	21	20	21	21	22	22	21	20	21	21	21	22	21	20	37	37	37	37	37	37	37	37	35	35	35	35	35	35	35	35	35	35			
KNYR		HY01	55	55	58	95	100	98	97	97	60	60	58	60	58	60	57	57	58	54	94	101	102	100	98	97	96	93	98	102	98	97	98	101	99	100	99	102	100	101	53	98	98	98	99	94	91	94	98	100
KNYR		HY02	56	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	102	102	101	99	98	97	94	99	102	98	98	99	102	100	101	100	102	101	102	54	94	60	71	72	60	61	98	102	99			
KNYR		HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	101	102	100	98	96	96	93	98	102	98	97	98	100	99	100	99	102	100	103	53	58	99	99	99	99	97	98	102	100			
LPJA		HY01	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	14	12	14	12	12	12			
LPJA		HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	14	15	15	14	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	14	14	14	14	14	12			
MNOR		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	5	5	5	5	5	5	5	1	1				
PGAU		HY01	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
PGAU		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	16	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1				
PGAU		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	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	20	20	20	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	0	0	0	0	0	0	0	0	0	0	0	0	50	47	47	47	31	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	0	0	0	0	0	0	0	0	50	50	50	50	30	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	0	0	0	0	0	0	0	0	25	50	50	50	30	30	30	30	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	0	0	0	0	0	0	0	17	25	25	25	17	17	17	17	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	0	0	0	0	0	0	0	17	25	25	25	17	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	0	0	0	0	0	0	0	17	25	25	25	17	17	17	17	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	0	0	0	0	0	0	17	25	25	25	17	0	0	0	0			
TMGR		HY02	45	41	80	42	44	44	43	44	90	56	43	51	54	44	46	41	43	42	42	76	83	83	71	43	46	46	45	91	63	45	49	80	78	66	46	91	45	79	45	81	44	52	57	44	43	87	89	91
TMGR		HY03	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	85	85	85	84	83	85	85	85		
TMGR		HY04	32	29	33	28	-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	61	86	86	86	85	84	86	85	86			
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	96	-1	-1	-1	90	90	92	88	86	-1	-1	-1		
UJLI		HY02	-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	0	0	0	0	0	-1	-1	87	94	91	92	96	91	88	96	99	99	
UPIA		HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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	6	6	6	6	6			
UPIA		HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	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			370	263	302	251	232	230	226	228	261	205	189	221	200	192	191	186	190	187	422	476	488	480	461	428	431	421	436	511	452	432	468	508	502	492	487	521	586	509	506	1042	1369	1387	1403	1271	1165	1111	1146	973
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	0	0	
BDLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	11	15	22	17	12	14	16	18	26	17	28	28	27	27	22	20	17	7	7	5	2	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	1	7	11	14	20	24	23	29	29	29	31	1	1	1	4	10	3	2	2	2	2	1	1	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	3	3	6	18	11	11	25	30	30	30	6	6	21	9	15	30	30	14	5	3	2	2	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	3	5	13	18	17	39	41	43	37	35	21	45	28	46	43	43	36	31	25	20	14	7	3	0	0	0	0	0	0	0	0	0	0		
GBLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	16	13	33	32	30	46	43	32	45	41	47	36	21	24	25	32	23	7	3	1	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	2	6	6	9	10	25	2	3	1	11	15	28	17	29	29	24	25	16	13	5	7	2	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	3	5	20	28	32	38	25	20	43	15	50	50	44	35	5	8	36	20	6	8	4	2	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	4	12	10	18	34	26	22	30	41	30	50	33	14	50	30	34	38	28	23	13	7	2	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	2	9	16	23	16	15	20	34	32	12	13	4	8	8	13	42	14	15	13	9	7	2	1	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	3	8	14	18	21	20	21	24	18	21	23	26	30	30	19	6	30	29	23	6	2	2	1	0	0	0	0	0	0	0	0	0	0	0		
MCLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	14	22	30	12	24	26	43	50	49	25	47	25	50	48	44	37	35	13	18	11	2	0	0	0	0	0	0	0	0	0	0	0		
SPLS		LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	6	15	24	37	46																														

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	
TIE-HVDC		30	30	30	30	30	31	31	31	31	30	30	29	29	29	29	30	30	30	29	29	29	30	30	31	31	30	30	29	29	29	29	29	29	30	30	30	30	30	29	29	29	29	30	30	31	31	29	
TIE-PLTG		-11	1	-57	-7	-12	-10	16	-1	-14	-3	24	-21	-9	-12	-17	48	9	38	51	-55	-63	-84	16	61	22	-21	13	-69	-67	47	30	24	16	-3	52	-1	25	61	55	32	19	41	33	27	33	-12	34	-9
Interconnection		19	31	-27	23	18	21	47	29	17	27	53	8	20	17	13	77	39	68	81	-26	-34	-54	46	92	52	10	43	-40	-38	77	59	53	45	27	82	29	55	91	85	61	48	70	62	57	64	19	65	20
System Total		14465	14065	13849	13575	13360	13062	12858	12749	12513	12408	12331	12379	12352	12346	12049	11708	11599	11967	12182	12512	12913	13333	13471	13580	13611	13603	13584	13932	13996	14122	14130	14334	14460	14430	14214	14038	14009	13887	14282	15238	15680	15648	15704	15589	15440	15373	15352	15145
SRev ST-Coal		269	306	472	447	481	468	450	455	474	478	460	453	559	555	576	574	729	503	497	542	622	659	629	608	615	608	608	613	595	598	590	585	535	526	535	537	546	509	434	257	242	195	172	150	161	166	164	148
SRev CCGT-Gas		625	846	772	845	1007	1317	1505	1424	1468	1492	1549	1586	1577	1584	1867	2139	2131	2070	2161	1927	1229	784	568	572	574	584	599	408	361	378	352	319	313	310	335	531	539	524	394	188	102	115	106	116	145	197	206	301
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		
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		903	1004	1004	1004	1091	1091	1091	1091	940	1091	1091	940	1091	1091	1091	1091	940	738	738	551	551	551	551	551	551	551	551	551	400	551	551	551	551	551	551	572	551	889	702	615	302	302	302	302	489	338	489	
Hydro		390	286	223	194	126	128	132	130	248	153	169	288	158	166	167	172	168	172	139	85	74	82	101	134	131	141	126	202	110	130	94	54	60	70	95	40	182	51	369	381	667	649	633	765	721	588	704	351
S.Reserve Total		2187	2442	2471	2490	2705	3004	3178	3100	3130	3214	3269	3267	3385	3396	3701	3976	4119	3685	3535	3292	2476	2076	1849	1865	1871	1884	1884	1623	1617	1657	1587	1509	1459	1457	1516	1680	1818	1973	1899	1441	1313	1261	1213	1333	1329	1440	1412	1289