

Daily System Generation Summary on Friday

Friday, February 11, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,194 MW
Distillate	0 MW
Total TNB	2,194 MW
Total IPP	16,192 MW
Total Co-Gen	0 MW
Total System	21,134 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,143	3.50 %
Gas	45,090	13.01 %
Total TNB	57,233	16.52 %
ST-Coal	189,295	54.63 %
ST-Gas	1,146	0.33 %
ST-Oil	1,876	0.54 %
LSS	2,119	0.61 %
Distillate	1,433	0.41 %
Gas	92,246	26.62 %
Total IPP	288,115	83.16 %
Co-Gen	1,298	0.37 %
Total Co-Gen	1,298	0.37 %
Total Generation	346,646	100.05 %
PLTG	-593	-0.17 %
HVDC	765	0.22 %
Interconnection	172	0.05 %
Net Energy	346,474	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:	16:30:00 Hour
Total Set On Bus	17,501 MW
TNB Generation	2,799 MW
IPP Generation	13,215 MW
Spinning Reserve	1,432 MW
Maximum Demand	16,011 MW
Net Energy	346,474 MWH
Load Factor	90.17 %

Fuel Cost

Total Cost:	82,912,174.66 RM
Cost per Unit	23.92 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	694
Hydro	372
Syncon	521
Thermal	214
Total	1,801

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	48
TJGS	174
Total TNB	222
CBPS	46
EMPP	185
NPRI	146
PCGP	71
PGLA	98
PLPS	41
SGB3	33
SPGP	91
PKLG	12
Total IPP	723
Total Gas	945
Total Gas Required	974

Alternate Fuel Usage

Station	(mmcsfd)
EMPP	10
PKLG	19
Total	29

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	13731	13242	12803	12521	12367	12211	12345	12691	13270	14634	15373	15671	15545	15202	15464	15753	15891	15767	15054	15011	15953	15723	14959	14608

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 2, 2022 3:31:55 PM
 (Ir. Shanmugam Thoppalan)
 Head
 Grid System Operator

Daily MW Generation on Friday

		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				
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	22	22	22	22	22	22	11	11	11	11	22	22	11	11	11	22	22	22	22	23	22	22	23	23	22	22	22	11	11	11	11	11	
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
CEND	HY02	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	9	10	10	9	10	10	10	10	10	10	9	10	9	9	9	10	9	10	10	9	10	9	10			
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	125	-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				
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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	33	33	24	24	24	24	24	24	24	24	33	33	23	24	23	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	0	0
KNRG	HY02	22	22	22	22	22	22	22	23	22	22	22	22	22	23	23	22	22	23	23	36	35	22	23	23	23	23	23	23	23	35	36	30	23	23	23	23	23	22	23	22	23	22	23	22	23	22	23	0	0			
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	35	35	21	21	21	21	21	21	21	21	35	35	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	
KNYR	HY01	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	57	59	82	89	85	64	60	61	63	85	85	85	81	84	71	85	71	68	62	70	61	62	60	59	65	65	67	59	65	59	79	62	62	62	62			
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	-1	-1	-1	97	99	57	57	57	58	58	58	57	98	57	58	58	58	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	98	56	56	56	56	56	56	56	56	56	56	56	56	50	50	51	51	51	50	51	-1	-1	-1	-1	98	96	54	-1	-1	-1	-1	-1	
KNYR	HY04	62	68	88	57	58	57	57	100	68	56	55	55	60	101	61	86	100	88	84	59	58	59	60	87	84	86	85	83	78	81	68	68	59	64	57	64	62	61	62	97	60	67	57	63	56	0	0	0				
LPIA	HY01	20	20	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	18	18	18					
LPIA	HY02	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	20	20				
PMNOR	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	3	3	3	3	3	3	3	3				
PGAU	HY01	-1	-1	-1	-1	-1	-1	19	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1				
SIHY	HY02	50	50	50	48	0	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	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50			
SYPS	HY01	17	17	17	15	0	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	25	25	25	25	25	25	25	25	25	17	17	17	17	17	17	0	0	0	0	0		
SYPS	HY04	17	17	17	17	0	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	25	25	25	25	25	25	25	25	25	17	17	17	17	17	17	0	0	0	0	0		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	83	32	32	34	34	-1	-1	-1	-1	42	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TMGR	HY02	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	42	42	43	47	44	45	43	45	44	69	83	35	36	34	36	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
TMGR	HY03	39	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	29	-1	-1	-1	-1	29	80	-1	-1	-1	-1	-1	-1	-1	-1	40	42	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	32	30	-1	-1	-1	-1			
TMGR	HY04	41	54	75	39	38	42	40	85	51	38	42	41	41	86	45	67	85	83	75	38	39	40	42	42	41	39	40	41	64	78	33	32	31	32	32	32	29	32	31	83	82	32	29	33	27	33	40	44				
UJLI	HY01	0	0	-1	84	0	0	-1	-1	-1	-1	-1	-1	-1	-1	86	88	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	88	84	88	89	86	81	85	83	92	174	177	81	86	75	89	82	86				
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	-1	-1	-1	-1	-1	-1	-1	-1	92	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
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	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	5	5	5	5	5				
Total Hydro		412	328	369	383	218	221	238	308	240	215	218	217	223	310	696	424	391	448	785	801	545	550	653	753	570	547	546	546	895	858	603	684	661	724	591	595	493	498	497	631	827	733	561	464	431	416	353	363				
EMPP	BLK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282	397	400	186	187	234	237	236	236	236	236			
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	282	397	400	186	187	234	237	236	236	236	236			
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	5	6	7	7	9	11	12	16	12	12	13	8	8	6	6	8	6	4	1	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	0	0	0	0	1	2	4	6	10	12	13	14	14	13	10	14	13	16	22	10	9	9	8	7	5	2	1	0	0	0	0	0	0	0	0			
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	8	10	11	14	14	14	15	19	17	15	11	11	12	13	7	5	3	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	0	0	0	0	3	7	14	16	25	38	28	22	42	48	38	39	37	36	15	9	17	13	9	4	4	1	0	0	0	0	0	0	0	0	0			
GELS																																																					

Daily MW Generation on Friday

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																									
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	3	3	7	30	61	106	155	191	226	233	258	288	285	269	325	326	294	233	219	197	199	157	98	56	21	5	0	0	0	0	0	0	0	0			
PCUF	CUFG	27	29	27	28	27	29	28	29	28	29	29	28	28	28	27	28	28	29	28	28	29	28	28	29	28	28	29	28	28	29	28	28	29	28	29	28	29	28	29	28	29								
PCUF	CUFK	26	28	25	25	25	25	25	25	26	26	27	26	26	25	25	25	27	26	26	26	27	28	26	26	25	26	26	27	26	25	25	27	26	26	26	27	25	27	26	26	26	25	25						
Total Co-Gen		53	57	52	53	52	54	53	54	53	54	55	56	54	53	53	55	53	54	54	55	55	55	54	54	54	53	55	55	55	54	54	56	55	53	56	54	55	53	53	54									
Total Gen		13742	13460	13177	13007	12819	12639	12515	12276	12349	12286	12191	12243	12356	12690	12716	12924	13247	13944	14620	15150	15385	15520	15677	15761	15567	15390	15309	15486	15671	15810	15975	15954	16069	15791	15496	15076	14901	15074	15787	15978	15994	15766	15385	14947	14803	14624	14307		
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							
TIE-HVDC		30	30	30	31	31	31	31	30	30	31	31	31	31	30	30	29	29	29	114	30	31	31	30	30	31	31	30	30	30	30	30	30	30	30	30	29	29	31	31	29	31	31	31	29					
TIE-PLTG		-19	-144	-95	-42	-14	-56	-36	-105	-48	-35	-51	-28	-20	6	-6	-22	-52	-58	-44	-14	-19	-45	-25	-16	-8	-24	-13	26	-8	6	27	7	33	28	-6	30	-8	27	32	-40	-3	-23	13	-115	-42	-69	-15	-52	
Interconnection		11	-114	-65	-12	16	-25	-6	-75	-18	-5	-20	2	11	37	25	7	-23	-29	-14	99	12	-14	6	15	22	6	17	56	22	36	57	37	63	58	24	60	22	57	63	-11	25	8	43	-87	-12	-38	16	-23	
System Total		13731	13574	13242	13019	12803	12664	12521	12351	12367	12291	12211	12241	12345	12653	12691	12917	13270	13973	14634	15051	15373	15534	15671	15746	15545	15384	15202	15253	15464	15635	15753	15938	15891	16011	15767	15436	15054	14844	15011	15798	15953	15986	15723	15472	14959	14841	14608	14330	
SRev ST-Coal		153	170	194	263	201	188	297	597	508	511	615	787	689	557	359	338	317	285	196	181	145	142	152	154	157	153	216	214	317	311	249	268	180	167	140	160	168	213	191	194	270	166	183	165	184	183	195	259	
SRev CCGT-Gas		1700	1955	2205	2441	2521	2774	2895	2689	2733	2759	2547	2552	2540	2494	2419	2121	1814	1422	1297	815	432	332	285	295	319	507	609	709	984	1012	550	436	507	448	722	800	1144	1514	1474	878	706	704	788	1094	1478	1609	1711	1971	
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-Oil		0	0	0	0	0	0	0	0	29	29	29	29	28	29	22	0	0	0	0	30	7	0	0	0	0	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	0
SRev 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	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	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	0
Syncon		741	842	1029	842	842	842	878	1029	1029	1029	1029	1029	1029	1029	88	741	928	928	651	651	739	739	552	552	489	640	640	640	464	464	552	365	365	214	554	554	655	655	655	655	466	466	315	655	655	655	655	655	
Hydro		242	138	96	269	148	145	278	57	125	150	147	148	142	55	610	229	75	146	273	233	401	396	480	380	440	312	313	313	240	277	357	463	486	574	367	363	340	335	336	202	195	289	562	319	352	267	250	240	
S.Reserve Total		2836	3105	3524	3815	3712	3949	4348	4372	4424	4478	4367	4545	4428	4164	3498	3429	3134	2781	2417	1910	1724	1626	1499	1411	1434	1641	1807	1905	2034	2092	1736	1560	1566	1432	1812	1904	2330	2717	2656	1929	1637	1625	1848	2233	2669	2714	2811	3125	