

Daily System Generation Summary on Friday

Friday, June 4, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,340 MW
Distillate	0 MW
Total TNB	2,340 MW
Total IPP	15,014 MW
Total Co-Gen	0 MW
Total System	21,625 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,781	3.79 %
Gas	68,040	20.20 %
Total TNB	80,821	23.99 %
ST-Coal	197,485	58.62 %
LSS	3,272	0.97 %
Gas	56,108	16.66 %
Total IPP	256,865	76.25 %
Co-Gen	156	0.05 %
Total Co-Gen	156	0.05 %
Total Generation	337,842	100.29 %
PLTG	242	0.07 %
HVDC	722	0.21 %
Interconnection	964	0.29 %
Net Energy	336,878	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	17,215 MW
TNB Generation	3,840 MW
IPP Generation	11,588 MW
Spinning Reserve	1,782 MW
Maximum Demand	15,386 MW
Net Energy	336,878 MWH
Load Factor	91.23 %

Fuel Cost

Total Cost:	51,211,177.11 RM
Cost per Unit	15.16 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	573
Hydro	282
Syncon	588
Thermal	278
Total	1,721

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	50
TJGS	199
Total TNB	250
CBPS	23
KLPP	54
NPRI	158
PGLA	21
PLPS	50
SGB3	7
Total IPP	314
Total Gas	563
Total Gas Required	563

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	14584	13994	13514	13037	12601	12371	12302	12082	12162	13170	13739	14072	14284	14348	14804	15224	15383	15153	14305	14494	15377	15353	15266	15081

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 5, 2021 5:19:40 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		HY02	23	23	23	23	24	23	24	24	24	12	12	12	12	12	12	12	12	24	24	24	24	24	24	24	24	24	24	24	24	12	12	12	12	12	12	12	12	12	12	12	13	12	12					
BSIA		HY03	23	23	23	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
CEND		HY01	9	9	9	9	9	9	9	9	9	10	10	10	10	9	9	9	9	10	10	10	10	10	9	10	9	10	9	9	9	10	9	10	10	9	9	9	9	10	9	10	10	9	9	9				
CEND		HY02	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		HY03	10	10	10	9	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		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	7	7	7	7	7	7	7	7	7	7	7	7	7						
HTRG		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					
KNRG		HY01	36	36	36	36	36	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	23	22	23	23	23	23	23	37	37	37		
KNRG		HY02	37	37	37	37	38	37	37	37	37	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	38	38	38	38	38	38	25	24	26	25	25	25	25	25	38	38	38			
KNRG		HY03	36	36	36	36	36	36	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
KNYR		HY01	66	65	65	66	64	58	59	58	58	70	97	66	76	78	63	66	65	84	68	62	92	65	96	69	69	69	69	73	72	69	73	68	65	66	65	65	64	100	67	65	63	86	85	100	64	66		
KNYR		HY02	100	60	60	59	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	57	60	-1	63	63	63	63	102	101	101	101	102	102	61	59	-1	-1	-1	62	99	99	98	58	59	99	99	69	59			
KNYR		HY03	101	59	59	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
KNYR		HY04	101	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	58	61	59	63	63	63	63	102	102	102	102	102	101	-1	-1	-1	-1	-1	102	101	101	99	58	59	101	100	60	60			
LPIA		HY01	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	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22			
LPIA		HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	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	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	-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				
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	50	50	50	50	50	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	50	50	50	50	50	50	50	49	50	50	50	50	50	50	50	49	50	49		
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TMGR		HY01	33	-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				
TMGR		HY02	45	44	44	44	54	44	43	43	44	56	81	54	66	65	44	45	49	44	70	44	42	78	53	80	55	54	55	55	54	56	55	54	56	54	44	50	44	51	42	89	44	44	43	49	49	55	44	44
TMGR		HY04	-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	-1	-1			
UJLI		HY01	0	0	0	0	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
UJLI		HY02	98	98	94	92	-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		HY02	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			
Total Hydro			805	584	580	557	392	314	315	314	315	257	309	251	272	273	237	258	246	240	286	340	428	556	484	657	626	624	627	849	847	907	986	787	816	788	625	454	388	355	343	595	706	703	697	605	608	781	729	593
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0</																												

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	
PCUF	CUFK	3	3	4	3	3	3	2	3	4	3	5	2	3	5	3	5	4	5	4	4	3	1	4	3	4	4	4	3	4	3	4	4	2	3	3	2	1	0	4	5	3	2	3	1	3	2	3	4
Total Co-Gen		6	6	7	6	6	6	4	6	8	6	10	5	7	11	5	11	8	10	7	8	6	2	9	6	8	8	7	6	7	7	8	9	4	5	6	3	4	1	7	9	6	5	7	5	5	6	6	9
Total Gen		14648	14401	14098	13825	13543	13333	13069	12844	12674	12466	12370	12277	12286	12273	12094	11943	12179	12862	13173	13463	13799	13897	14008	14262	14259	14309	14390	14684	14825	15068	15240	15383	15453	15433	15216	14765	14438	14203	14598	15269	15451	15419	15417	15289	15293	15245	15150	14878
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	29	31	29	30	30	30	31	31	29	29	29	29	29	30	31	29	31	31	31	31	30	30	31	30	30	30	30	30	30	31	30	30	30	31	31	31	31	31	31	31	29	29	30	30	30		
TIE-PLTG		37	37	76	35	1	29	5	8	45	-11	-27	-17	-42	-52	-14	7	-10	23	-22	18	33	-41	-91	-26	-52	-6	15	40	-6	-2	-11	33	43	20	37	22	105	-15	76	11	47	27	36	5	2	4	41	17
Interconnection		67	66	107	64	32	59	35	38	76	19	2	12	-13	-23	15	36	20	54	6	49	63	-11	-61	4	-22	25	45	70	24	28	19	63	73	50	66	51	136	16	107	42	77	58	67	36	30	33	72	48
System Total		14584	14338	13994	13764	13514	13277	13037	12809	12601	12450	12371	12268	12302	12299	12082	11910	12162	12811	13170	13417	13739	13911	14072	14261	14284	14287	14348	14617	14804	15043	15224	15323	15383	15386	15153	14717	14305	14190	14494	15230	15377	15364	15353	15256	15266	15215	15081	14833
SRev ST-Coal		179	131	137	295	298	305	299	353	375	384	383	374	369	369	405	475	385	370	301	294	315	311	303	310	304	374	308	316	302	339	341	313	333	302	349	318	303	303	318	222	238	192	146	191	114	175	158	157
SRev CCGT-Gas		459	363	498	472	370	546	807	880	958	830	831	837	859	825	924	1055	947	536	440	287	402	875	863	762	791	872	849	775	758	659	639	775	661	702	812	890	904	1085	645	324	233	217	261	340	416	354	414	337
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	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		364	552	552	552	739	840	840	840	840	1027	1027	1027	1027	1027	1027	876	1027	1027	1027	926	738	551	652	551	551	551	551	364	364	364	364	551	400	551	652	926	1027	1027	1027	825	587	587	587	587	587	587	587	587
Hydro		254	287	291	314	144	121	120	121	120	97	45	103	82	81	117	247	108	114	68	165	265	324	295	273	304	306	303	268	270	210	221	233	355	232	294	141	106	139	151	101	328	331	337	429	426	253	305	441
S.Reserve Total		1256	1333	1478	1633	1651	1812	2066	2194	2293	2338	2286	2341	2337	2302	2473	2653	2467	2047	1836	1672	1720	2061	2113	1896	1950	2103	2011	1723	1694	1572	1565	1872	1749	1787	2107	2275	2340	2554	2141	1572	1386	1327	1331	1547	1543	1369	1464	1522