



Source: U.S. Energy Information Administration (compiled by Si Kinsella, Feb 8, 2021)

<https://www.eia.gov/electricity/data/browser/#/plant/58035?freq=M&start=201501&end=202012&ctype=linechart&itype=pin&columnchart=ELEC.PLANT.GEN.58035-ALL-ALL.M&linechart=ELEC.PLANT.GEN.58035-ALL-ALL.M&maptype=0&pin=>

Block Island Wind Farm
EIA.gov - Net Generation/Capacity Factor (monthly)

Net Generation (MWh)	2017	2018	2019	2020	Total	Total Hours per Month	Net Generation (MW)	Nameplate Capacity (MW)	Average Capacity
January	8,898	12,595	12,919	11,762	46,174	2,976	15.5155	30	51.7%
February	7,801	11,358	9,955	10,109	39,223	2,712	14.4628	30	48.2%
March	10,514	12,184	11,834	13,219	47,751	2,976	16.0454	30	53.5%
April	6,904	10,763	11,102	12,882	41,651	2,880	14.4622	30	48.2%
May	9,162	7,931	10,594	11,712	39,399	2,976	13.2389	30	44.1%
June	9,932	7,329	7,974	6,527	31,762	2,880	11.0285	30	36.8%
July	6,724	7,295	5,623	7,166	26,808	2,976	9.0081	30	30.0%
August	5,712	6,547	6,171	6,351	24,781	2,976	8.3269	30	27.8%
September	5,698	7,509	7,633	6,783	27,623	2,880	9.5913	30	32.0%
October	10,195	11,341	11,026	8,197	40,759	2,976	13.6959	30	45.7%
November	10,985	10,999	11,773	11,757	45,514	2,880	15.8035	30	52.7%
December	11,826	11,511	11,188	13,764	48,289	2,976	16.2261	30	54.1%
Totals:	104,351	117,362	117,792	120,229	459,734	35,064	13.1113	30	43.7%

Block Island Wind Farm
EIA.gov - Net Generation/Capacity Factor (monthly)

2017	Net Generation (MWh)	Hours per Month	Net Generation (MW)	Nameplate Capacity (MW)	Capacity Factor	MMBtu	MMBtu /MWh
Jan-17	8,898	744	11.9597	30	39.9%	81,977	9.213
Feb-17	7,801	672	11.6086	30	38.7%	71,871	9.213
Mar-17	10,514	744	14.1317	30	47.1%	96,865	9.213
Apr-17	6,904	720	9.5889	30	32.0%	63,607	9.213
May-17	9,162	744	12.3145	30	41.0%	84,410	9.213
Jun-17	9,932	720	13.7944	30	46.0%	91,504	9.213
Jul-17	6,724	744	9.0376	30	30.1%	61,948	9.213
Aug-17	5,712	744	7.6774	30	25.6%	52,625	9.213
Sep-17	5,698	720	7.9139	30	26.4%	52,496	9.213
Oct-17	10,195	744	13.703	30	45.7%	93,927	9.213
Nov-17	10,985	720	15.2569	30	50.9%	101,205	9.213
Dec-17	11,826	744	15.8952	30	53.0%	108,953	9.213
	104,351	8,760	11.9122	30	39.7%	961,388	9.213

2018	Net Generation (MWh)	Hours per Month	Net Generation (MW)	Nameplate Capacity (MW)	Capacity Factor	MMBtu	MMBtu /MWh
Jan-18	12,595	744	16.9288	30	56.4%	114,665	9.104
Feb-18	11,358	672	16.9018	30	56.3%	103,403	9.104
Mar-18	12,184	744	16.3763	30	54.6%	110,923	9.104
Apr-18	10,763	720	14.9486	30	49.8%	97,986	9.104
May-18	7,931	744	10.6599	30	35.5%	72,204	9.104
Jun-18	7,329	720	10.1792	30	33.9%	66,723	9.104
Jul-18	7,295	744	9.8051	30	32.7%	66,414	9.104
Aug-18	6,547	744	8.7997	30	29.3%	59,604	9.104
Sep-18	7,509	720	10.4292	30	34.8%	68,362	9.104
Oct-18	11,341	744	15.2433	30	50.8%	103,248	9.104
Nov-18	10,999	720	15.2764	30	50.9%	100,135	9.104
Dec-18	11,511	744	15.4718	30	51.6%	104,796	9.104
	117,362	8,760	13.3975	30	44.7%	1,068,463	9.104

2019	Net Generation (MWh)	Hours per Month	Net Generation (MW)	Nameplate Capacity (MW)	Capacity Factor	MMBtu	MMBtu /MWh
Jan-19	12,919	744	17.3642	30	57.9%	117,795	9.118
Feb-19	9,955	672	14.814	30	49.4%	90,770	9.118
Mar-19	11,834	744	15.9059	30	53.0%	107,902	9.118
Apr-19	11,102	720	15.4194	30	51.4%	101,228	9.118
May-19	10,594	744	14.2392	30	47.5%	96,596	9.118
Jun-19	7,974	720	11.075	30	36.9%	72,707	9.118
Jul-19	5,623	744	7.5578	30	25.2%	51,271	9.118
Aug-19	6,171	744	8.2944	30	27.6%	56,267	9.118
Sep-19	7,633	720	10.6014	30	35.3%	69,598	9.118
Oct-19	11,026	744	14.8199	30	49.4%	100,535	9.118
Nov-19	11,773	720	16.3514	30	54.5%	107,346	9.118
Dec-19	11,188	744	15.0376	30	50.1%	102,012	9.118
	117,792	8,760	13.4466	30	44.8%	1,074,027	9.118

2020	Net Generation (MWh)	Hours per Month	Net Generation (MW)	Nameplate Capacity (MW)	Capacity Factor	MMBtu	MMBtu /MWh
Jan-20	11,762	744	15.8091	30	52.7%	107,081	9.104
Feb-20	10,109	696	14.5244	30	48.4%	92,032	9.104
Mar-20	13,219	744	17.7675	30	59.2%	120,346	9.104
Apr-20	12,882	720	17.8917	30	59.6%	117,278	9.104
May-20	11,712	744	15.7419	30	52.5%	106,626	9.104
Jun-20	6,527	720	9.0653	30	30.2%	59,422	9.104
Jul-20	7,166	744	9.6317	30	32.1%	65,239	9.104
Aug-20	6,351	744	8.5363	30	28.5%	57,820	9.104
Sep-20	6,783	720	9.4208	30	31.4%	60,396	8.904
Oct-20	8,197	744	11.0175	30	36.7%	72,986	8.904
Nov-20	11,757	720	16.3292	30	54.4%	104,684	8.904
Dec-20	13,764	744	18.5000	30	61.7%	122,568	8.905
	120,229	8,784	13.6873	30	45.6%	1,086,478	9.037

2017-2020 Years	Net Generation (MWh)	Hours per Month	Net Generation (MW)	Nameplate Capacity (MW)	Capacity Factor	MMBtu	MMBtu /MWh
2017	104,351	8,760	11.9122	30	39.7%	961,388	9.213
2018	117,362	8,760	13.3975	30	44.7%	1,068,463	9.104
2019	117,792	8,760	13.4466	30	44.8%	1,074,027	9.118
2020	120,229	8,784	13.6873	30	45.6%	1,086,478	9.037
Total:	459,734	35,064	13.1113	30	43.7%	4,190,356	9.115
Max:	13,764	744	18.5000	30	61.7%	122,568	8.905
Min:	5,623	672	7.5578	30	25.2%	51,271	9.118
Var (abs):	8,141	72	10.9422	30	36.5%	71,297	-0.213
Var (%):	145%	11%	145%	30		1.3906	-2.34%

Summer (quartile with lowest generation: July, August & September)							
Summer (2017-2020)	Net Generation (MWh)	Hours per Month	Net Generation (MW)	Nameplate Capacity (MW)	Capacity Factor	MMBtu	MMBtu /MWh
July	6,702	744	9.0081	30	30.0%	61,218	9.134
Aug	6,195	744	8.3270	30	27.8%	56,579	9.133
Sept	6,906	720	9.5913	30	32.0%	62,713	9.081
Avg:	6,601	736	8.9754	30	29.9%	60,170	9.115

Winter (quartile with highest generation: November, December & January)							
Winter (2017-2020)	Net Generation (MWh)	Hours per Month	Net Generation (MW)	Nameplate Capacity (MW)	Capacity Factor	MMBtu	MMBtu /MWh
Nov	11,252	720	15.6282	30	52.1%	102,895	9.144
Dec	12,072	744	16.2262	30	54.1%	109,582	9.077
Jan	11,544	744	15.5155	30	51.7%	105,380	9.129
Avg:	11,446	737	15.5351	30	51.8%	104,597	9.139

Compiled by Si Kinsella (April, 2021)

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Block Island Wind Farm
EIA.gov - Net Generation/Capacity Factor (monthly)

Hours per Month	2017	2018	2019	2020	Total
January	744	744	744	744	2,976
February	672	672	672	696	2,712
March	744	744	744	744	2,976
April	720	720	720	720	2,880
May	744	744	744	744	2,976
June	720	720	720	720	2,880
July	744	744	744	744	2,976
August	744	744	744	744	2,976
September	720	720	720	720	2,880
October	744	744	744	744	2,976
November	720	720	720	720	2,880
December	744	744	744	744	2,976
Totals:	8,760	8,760	8,760	8,784	35,064

check sum: 35,064

Average MWh	2017	2018	2019	2020	Total
January	11.9597	16.9288	17.3642	15.8091	15.5155
February	11.6086	16.9018	14.8140	14.5244	14.4628
March	14.1317	16.3763	15.9059	17.7675	16.0454
April	9.5889	14.9486	15.4194	17.8917	14.4622
May	12.3145	10.6599	14.2392	15.7419	13.2389
June	13.7944	10.1792	11.0750	9.0653	11.0285
July	9.0376	9.8051	7.5578	9.6317	9.0081
August	7.6774	8.7997	8.2944	8.5363	8.3269
September	7.9139	10.4292	10.6014	9.4208	9.5913
October	13.7030	15.2433	14.8199	11.0175	13.6959
November	15.2569	15.2764	16.3514	16.3292	15.8035
December	15.8952	15.4718	15.0376	18.5000	16.2261
Totals:	11.9122	13.3975	13.4466	13.6873	13.1113

Average Capacity Factor	2017	2018	2019	2020	Total
January	39.9%	56.4%	57.9%	52.7%	51.7%
February	38.7%	56.3%	49.4%	48.4%	48.2%
March	47.1%	54.6%	53.0%	59.2%	53.5%
April	32.0%	49.8%	51.4%	59.6%	48.2%
May	41.0%	35.5%	47.5%	52.5%	44.1%
June	46.0%	33.9%	36.9%	30.2%	36.8%
July	30.1%	32.7%	25.2%	32.1%	30.0%
August	25.6%	29.3%	27.6%	28.5%	27.8%
September	26.4%	34.8%	35.3%	31.4%	32.0%
October	45.7%	50.8%	49.4%	36.7%	45.7%
November	50.9%	50.9%	54.5%	54.4%	52.7%
December	53.0%	51.6%	50.1%	61.7%	54.1%
Totals:	39.7%	44.7%	44.8%	45.6%	43.7%