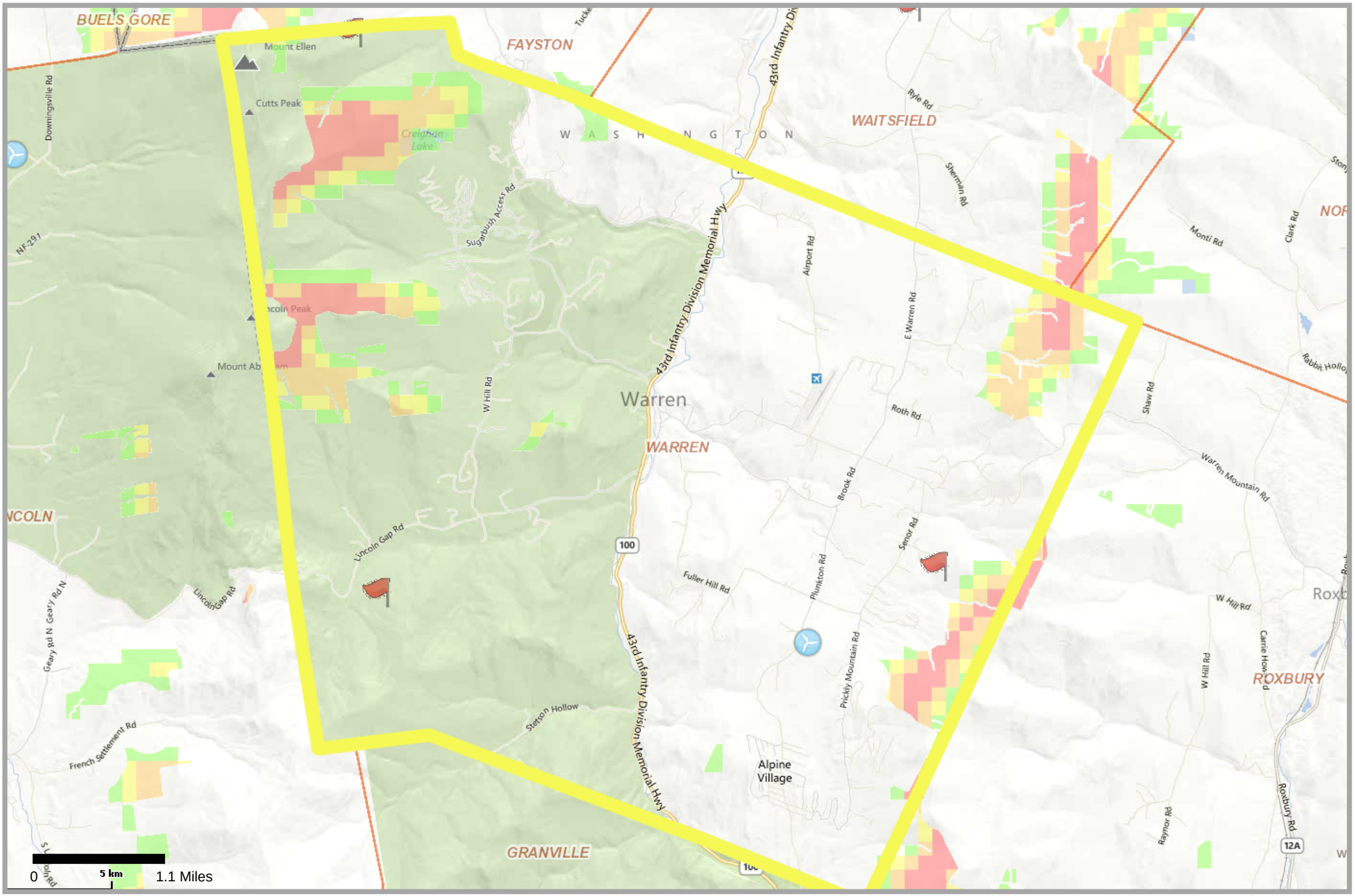
RENEWABLE ENERGY ATLAS OF VERMONT

WARREN: Wind



1 Existing Wind Sites:

Type	Existing Sites	Existing Sites Capacity (kW)
Net Metered	1	2
Non-Net Metered	0	0
TOTAL »	**1**	**2**

Potential Wind Development Areas (Acres):

Scale	Class 1 (10-11 mph)	Class 2 (12-13 mph)	Class 3 (13-14 mph)	Class 4 (15-16 mph)	Class 5 (16-17 mph)	Class 6 (17-18 mph)	Class 7 (19-25 mph)
Residential 30 meter	7,092	2,113	1,235	815	246	179	4
Small Commercial 50 meter	0	633	705	484	418	764	281
Large Commercial 70 meter	0	0	0	722	410	830	662

This **graphic**, developed by Windustry, depicts a useful reference for the scale of wind systems. For example, residential scale wind, modeled at a 30 meter hub height in the Atlas and in the Windustry graphic, corresponds to smaller systems, such as the Earth Turbine 2500 (2.5 kW) or the Bergey Excel (10 kW, most of the existing wind sites in Vermont are about 10 kW). Small commercial (50 meter hub height) and large commercial (70 meter hub height) wind correspond to progressively larger wind turbines.

Town: Warren County: Washington

- **Population:** 1731 • **% of Total Pop:** 0.28% • **Pop. Rank:** 100 • **Pop. Density:** 43.2 • **Pop. Density Rank:** 105
- **Area:** 40.1 Square Miles • 103.8 Square Kilometers • 25664 Acres • **% of Total Area:** 0.42% • **Area Rank:** 117
- **Number of Buildings:** 1470 • **% of Total:** 0.5% • **Rank:** 58 • **Number of Households:** 2212

Electricity Consumption : 2005-2010 (MWh)

Type	2005	2006	2007	2008	2009	2010
Commercial & Industrial Consumption	20,394	19,685	25,835	20,919	20,017	20,475
Residential Consumption	16,298	15,394	15,383	15,293	19,350	14,901
TOTAL	36,692	35,079	41,218	36,213	39,368	35,377

Electricity Savings : 2005-2010 (MWh)

Type	2005	2006	2007	2008	2009	2010
Commercial & Industrial Savings	23	129	225	47	148	938
Residential Savings	57	133	245	344	153	198
TOTAL	81	262	470	391	301	1,137

Average Residential kWh Consumption & Savings by Household: 2005-2010

Type	2005	2006	2007	2008	2009	2010
Residential Consumption	7,355	6,947	6,942	6,902	8,724	6,737
Residential Savings	26	60	111	155	69	90

Residential & Commercial/Industrial Thermal Savings (MMBTU): 2005-2010

Type	2005	2006	2007	2008	2009	2010
Residential Savings	0	0	0	0	408	307
Commercial & Industrial Savings	0	0	0	0	40	-75
TOTAL	0	0	0	0	448	232