

# Windsor

Population: **3496**



Population Density: **176.48**

## Households

Total number: **Windsor**



Owner households: **801**

Average Size: **2.50**

Renter households: **647**

Average Size: **2.00**

Median Annual Household Income: **\$36,600**

## Space Heating for Households

Median Year Built: **1939**

Percent of Housing Built Since 2000: **8%**

Percent of Housing Built Since 1960:

**74%**

Total Energy Used: **134,940,000,000 BTU**

Total Cost: **\$1,568,000.35**

Mean Cost per household: **\$2,090.84**



## Residential Transportation

Total Number of Vehicles: **2238**



Estimated miles traveled: **39,686,592**

Estimated Gallons of fuel used: **2,001,370.71 gal**

Total Cost: **\$6,854,694.67**

Percent of residents driving alone to work: **73%**

Average Commute Time: **22 min**

## Electricity Usage

\*Electricity usage is determined by zip codes



Zip code: **05089**

Residential Usage: **15,778,755.15 kWh**

Commercial Usage: **17,512,444.01 kWh**

## Businesses

Total Business: **142**

Total Employees: **1672**

Average Employment Wage: **\$42,367**



## Space Heating for Businesses

Average Sq Ft per Business: **9,019 sq ft**

Total Energy Used: **65,749,763,200 BTU**

Total Cost: **\$1,568,000**

Cost per Business: **\$11,042**

## Existing Energy Generation

Existing Solar Generation: **0.49 MW**

Existing Wind Generation: **0.000**

Existing Hydro Generation: **0**



## Renewable Potential

Energy Target: **19,078 MWh**

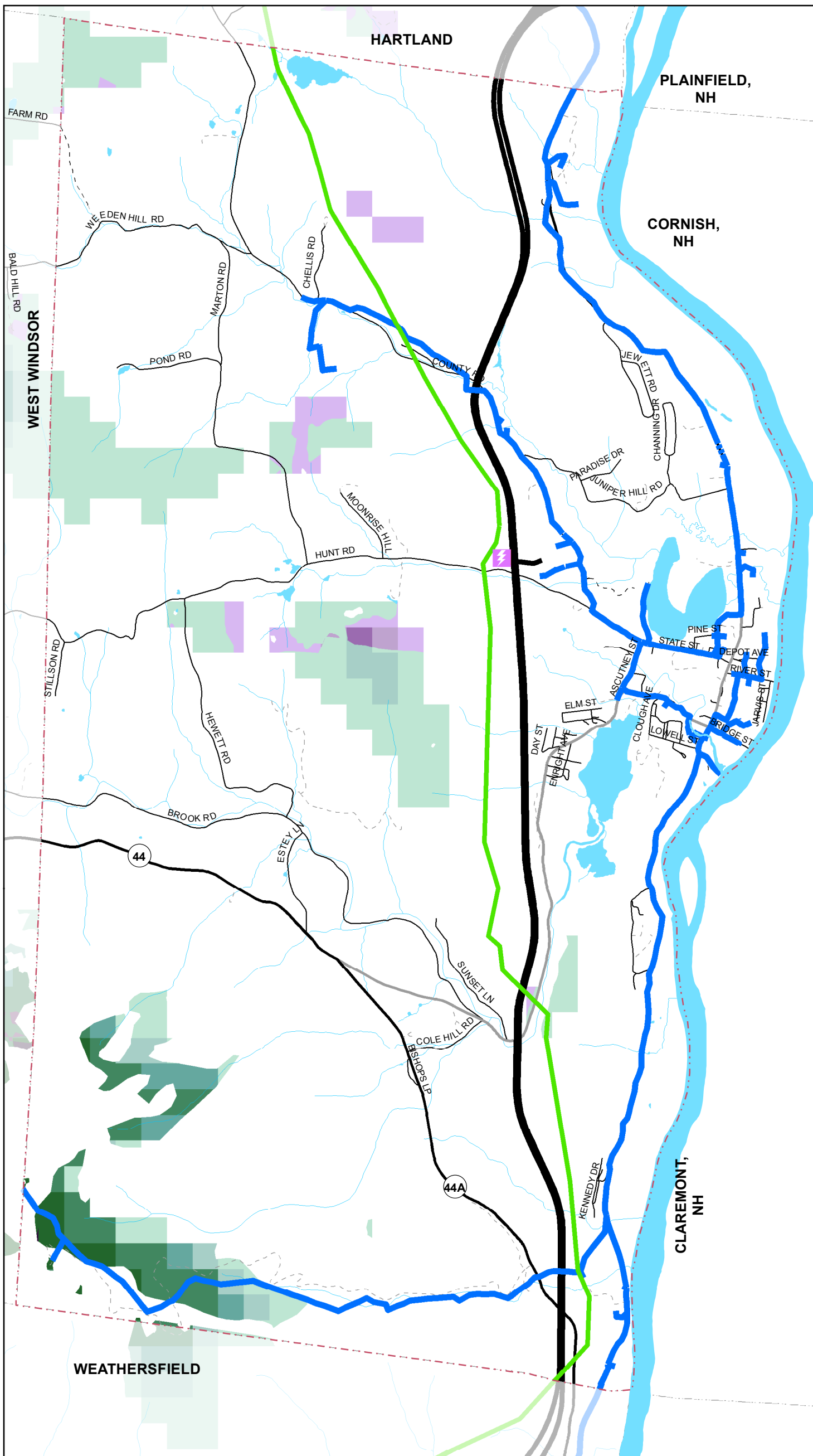
Solar Potential: **0.49 MW**

Wind Potential: **79.43 MW**

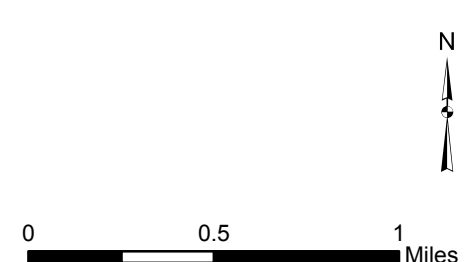
Hydro Potential: **0.23 MW**

# Wind Resources Map

Town of Windsor, VT  
DRAFT



- Prime Wind Potential**
- 10.070000 - 10.94 mph
  - 10.940001 - 12.10
  - 12.100001 - 13.82
  - 13.820001 - 16.46
  - 16.460001 - 25.70
- Secondary Wind Potential**
- 10.070000 - 11.45 mph
  - 11.450001 - 12.82
  - 12.820001 - 14.32
  - 14.320001 - 16.46
  - 16.460001 - 25.70
- ▲ Commercial Wind Facility
  - ▲ Residential Wind Facility
  - ⚡ Substation
  - Electric Transmission Line
  - Three Phase Electricity Distribution Lines
  - Interstate Highway
  - US or State Highway
  - Class 1 Town Highway
  - Class 2 or 3 Town Highway
  - Class 4 Town Highway
  - Forest Rd, Legal Trail or Private Road
  - River or Stream
  - Lake or Pond
  - Town Boundary



Data sources: Wind Facilities (VT Energy Dashboard. Sites listed on Atlas on 02/03/2017), Prime and Secondary Wind Potential (VCGI 2017) (Regional Constraints and Town Constraints for TO BE DEFINED), Substations (BCRC 2015 and SWCRPC 2016), Three Phase Electricity Lines (BCRC 2015), Transmission Lines (RPC 2016), Waterbodies (VHD 2008), Roads (VTrans 2016), Town Boundary (VCGI 2012).

VT State Plane, Meters, NAD 83

This map shows the existing wind energy general sites and the potential for wind energy production considering

- Statewide analysis of wind potential
- Statewide, Regional and Local constraints which prevent or may impact development of wind energy generation facilities

Potential wind speeds were calculated using the TrueWind Solutions MesoMap wind mapping system. For more info see [www.vtenergyatlas-info.com/wind/methodology](http://www.vtenergyatlas-info.com/wind/methodology)

There are currently no commercial wind facilities in the area.

Known constraints include areas that should not be developed with renewable energy generation facilities. Possible constraints include areas that may impact the siting of renewable energy generation facilities, but do not necessarily prevent their development. In addition to constraints listed in the November 2016 Regional Energy Planning Standards, SWCRPC has included the following Regional constraints (????) and the Town has included the following constraints (?????).

The Regional Energy Planning Standards are available at <http://publicservice.vermont.gov/content/act-174-recommendations-and-determination-standards>

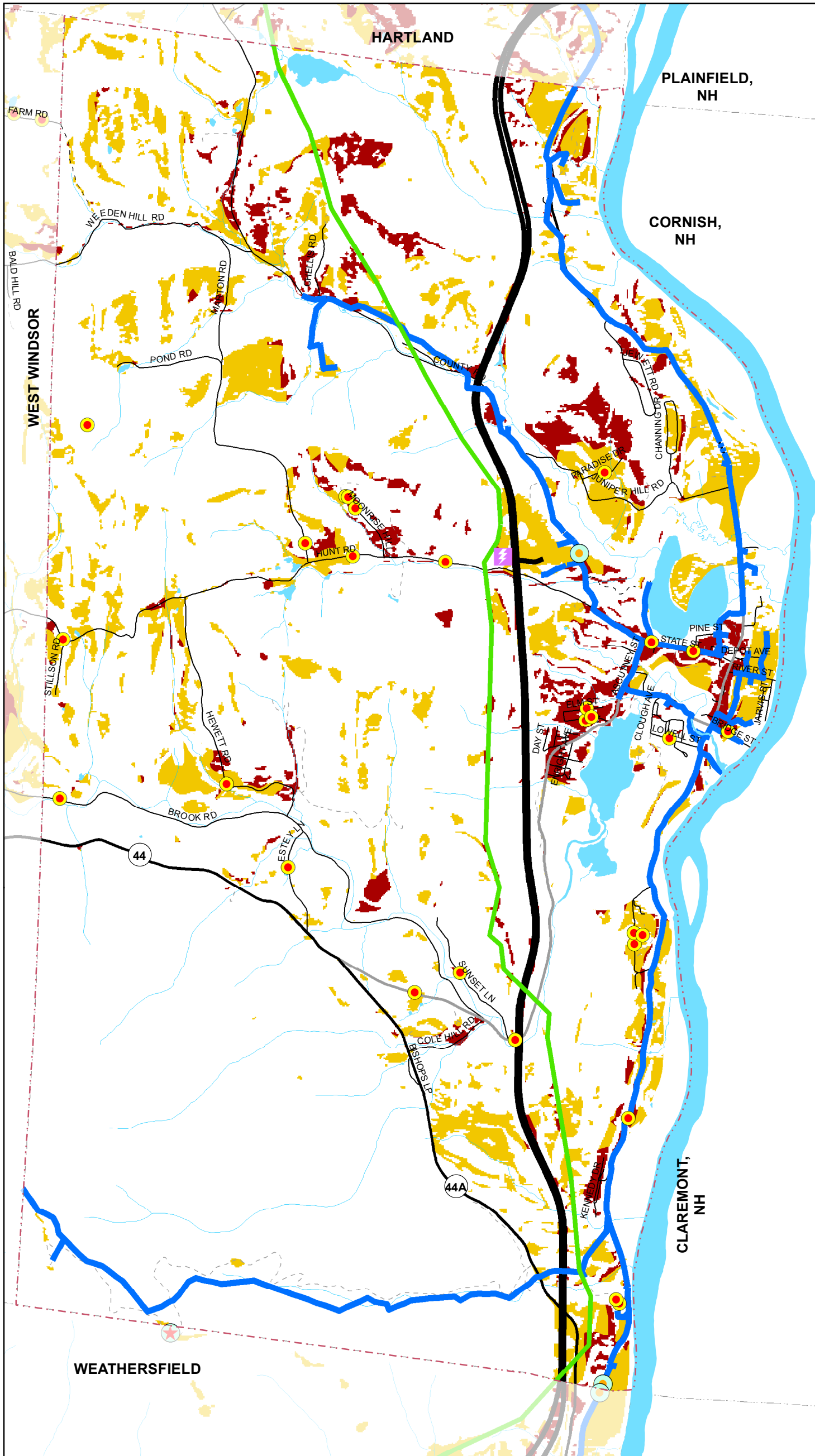


P.O. Box 320, Ascutney, VT 05030  
802-674-9201 [www.swcrpc.org](http://www.swcrpc.org)

For planning purposes only  
Not for regulatory interpretation  
Map Drawn April 12, 2017

# Solar Resources Map

Town of Windsor, VT  
DRAFT



- ★ Business, Institution or Municipality with a capacity of 150kW or more
- ★ Business, Institution or Municipality with a capacity of 15kW or less
- Business, Institution or Municipality with a capacity of 15.1kW - 150kW
- Residential, Capacity of 150kW or more
- Residential, Capacity of 15kW or less
- Residential, Capacity of over 15kW but less than 150kW
- ⚡ Substation
- Prime solar resource
- Secondary solar resource
- Electric Transmission Line
- Three Phase Electricity Distribution Lines
- Interstate Highway
- US or State Highway
- Class 1 Town Highway
- Class 2 or 3 Town Highway
- Class 4 Town Highway
- Forest Rd, Legal Trail or Private Road
- River or Stream
- Lake or Pond
- Town Boundary

0 0.5 1 Miles

Data sources: Solar Facilities (VT Energy Dashboard. Sites listed on Atlas on 02/03/2017), Prime and Secondary Solar Potential (VCGI 2017) (Regional Constraints and Town Constraints for TO BE DEFINED), Substations (BCRC 2015 and SWCRPC 2016), Three Phase Electricity Lines (BCRC 2015), Transmission Lines (RPC 2016), Waterbodies (VHD 2008), Roads (VTrans 2016), Town Boundary (VCGI 2012).

VT State Plane, Meters, NAD 83

This map shows the existing solar energy production according to capacity for electricity generation and organization type. This map also shows the potential for ground-mounted solar energy production considering

- Statewide analysis of solar potential
- Statewide, Regional and Local constraints which prevent or may impact development of solar energy generation facilities

The VT Public Service Board divides applications for a Certificate of Public Good by net metering system capacity: 15kW or less, over 15kW but less than 150kW, and 150kW or more.

Solar potential for ground-mounted systems was calculated to consider the following conditions: slope direction, slope steepness, and radiation values from ESRI solar analyst.

For more info see <http://vcgi.vermont.gov/opendata/act174>

Known constraints include areas that should not be developed with renewable energy generation facilities. Possible constraints include areas that may impact the siting of renewable energy generation facilities, but do not necessarily prevent their development. In addition to constraints listed in the November 2016 Regional Energy Planning Standards, SWCRPC has included the following Regional constraints (????) and the Town has included the following constraints (?????).

The Regional Energy Planning Standards are available at <http://publicservice.vermont.gov/content/act-174-recommendations-and-determination-standards>



P.O. Box 320, Ascutney, VT 05030  
802-674-9201 [www.swcrpc.org](http://www.swcrpc.org)

For planning purposes only  
Not for regulatory interpretation  
Map Drawn April 12, 2017