

Population

Households

Owner-Occupied Unitsⁱⁱⁱ:

Renter- Occupied Unitsⁱⁱⁱ:

Total Householdsⁱⁱⁱ:

Avg. Household Sizeⁱⁱⁱ:

Total Populationⁱ (2015): Proj. Annual Avg. Growth Rateⁱⁱ: **Population Density:**

9,258 ↓ 0.00269 187 persons/ square mile

2,657 1,246 4,324 2.28 people/ household

Springfield





Businesses[™]

Heating

Businesses^v:

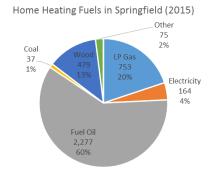
Total businesses in Springfield: Employees working in Springfield: Average wage:

Estimated avg. building space:

Estimated total annual cost:

Avg. annual cost per business:







Transportation

Residentialⁱ (see figure)

Total energy use:

Number of vehicles: Estimated vehicle miles traveled: Estimated gal. fuel used per year: Estimated fuel cost per year: Residents driving alone to work: Average commute time:



Electricity Use

Electricity Usage in 2015^{vi} Avg. Residential Usage: Total Usage (2014-2016):

6,245 105.6 million 5.7 million \$13.1 million 81% 21 minutes

11,017 sq. ft.

167.7 billion

\$4 million

\$13,290

BTUs

Electricity Usage by KWh in Springfield Residential 27,745,868 Commercial and Industria 41,448,600 60%

40%

(see figure) 6,921 KWh 个 136,355 KWh 个 0.2%



Energy Generation

Existing Renewable Energy Generation

Solar	59 sites	3.6 MW	4,415 MWh
Wind	1 site	0.001 MW	3 MWh
Hydro	5 sites	1.3 MW	4,555 MWh
Biomass	0	0	0

Renewable Energy Generation Targets^{vii}

2015 (Baseline)	8,973 MWh
2025	15,596.5 MWh
2035	31,193 MWh
2050	62 <i>,</i> 386 MWh

Potential for Renewable Energy Generationviii

Rooftop Solar	7.18 MW	8,806 MWh
Ground-Mounted Solar	369.05 MW	452,603 MWh
Wind	34 MW	104,244 MWh
Hydro	0.01 MW	35 MWh

ⁱ U.S. Census Bureau, American Community Survey (ACS) 2011-2015

[&]quot; Based on Scenario B population projections for 2030 (VT ACCD, 2013)

[&]quot; U.S. Census Bureau, Decennial Census (2010)

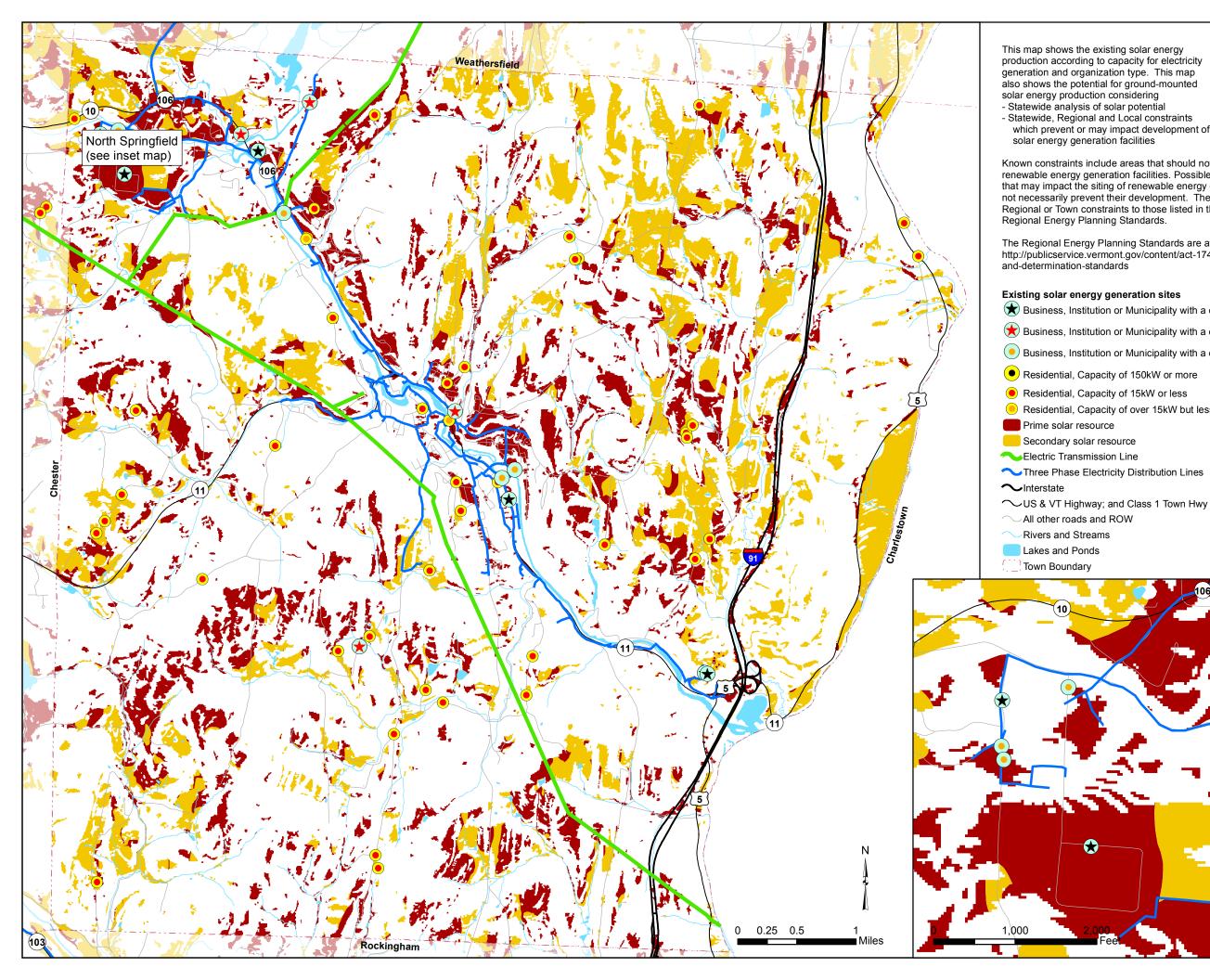
^{iv} Vermont Department of Labor Statistics (2015)

^v Estimated based on number of units, estimated floor space, heating fuel types and average fuel costs for 2015. Floor space was estimated from average commercial/manufacturing floor space per employee from the U.S. Energy Information Administration.

^{vi} Efficiency Vermont (2017)

vii SWCRPC

viii Based upon an analysis of GIS data mapping data (i.e. land area shown on the solar and wind potential maps)



which prevent or may impact development of

Solar Resources Map Town Energy Plan 2019 Town of Springfield, VT Adopted: 11-11-2019

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. There are no additional Regional or Town constraints to those listed in the November 2016

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

Business, Institution or Municipality with a capacity of 150kW or more

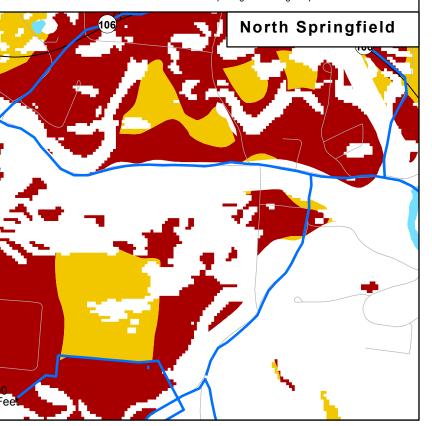
Business, Institution or Municipality with a capacity of 15kW or less

🕒 Business, Institution or Municipality with a capacity of 15.1kW - 150KW <

Residential, Capacity of over 15kW but less than 150kW

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 150k, 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



Data sources: Solar Facilities (VT Energy Dashboard. Sites listed on Atlas on 02/03/2017), Prime and Secondary Solar Potential (VCGI 2017) (No additional Regional or Town Constraints), Substations (BCRC 2015 and SWCRPC 2016), Three Phase Electricity Lines (BCRC 2015), Transmission Lines (RPC 2016), Waterbodies (VHD 2008), Roads (VTrans 2016), Town Boundary (SWCRPC 2013 using Parcels 2013)

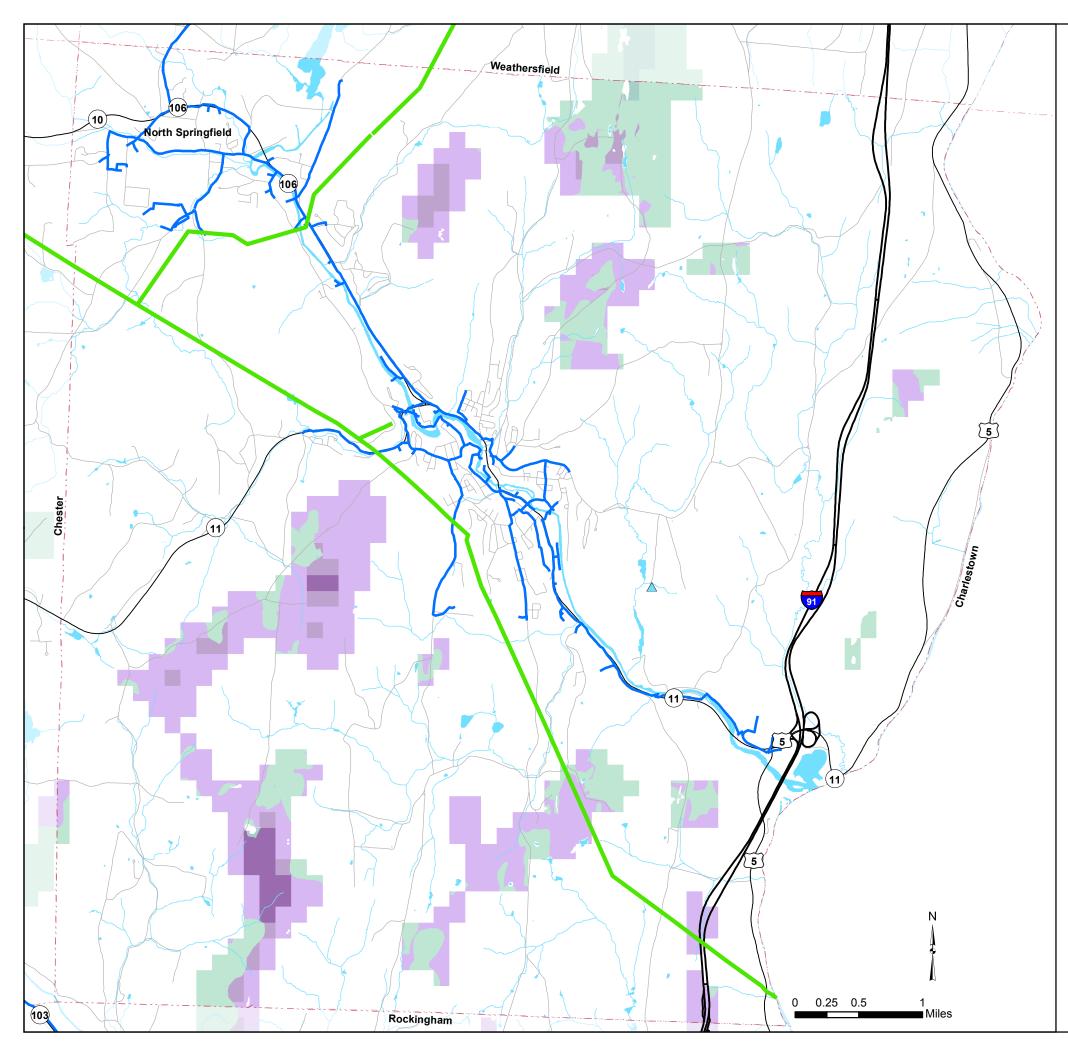
VT State Plane, Meters, NAD 83 Data depicted on this map are for planning purposes only and are based on best available information. Some of the data do not line up.



SOUTHERN WINDSOR COUNTY **REGIONAL PLANNING COMMISSION**

P.O. Box 320, Ascutney, VT 05030 802-674-9201 www.swcrpc.org

For planning purposes only Not for regulatory interpretation Drawn August 30, 2017



This map shows the existing wind energy general sites and the potential for wind energy production considering - Statewide analysis of solar potential

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

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. There are no additional Regional or Town constraints to those listed in the November 2016 Regional Energy Planning Standards.

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

Prime Wind Potential have higher wind speed.

Secondary Wind Potential possible constraints. . Darker areas have higher wind speeds

A Commercial Wind Facility

A Residential Wind Facility

Electric Transmission Line ✓Three Phase Electricity Distribution Lines

──US & VT Highway; and Class 1 Town Hwy ─ All other roads and ROW

Rivers and Streams

Lakes and Ponds (]_) Town Boundary

Potential wind speeds were calculated using the TrueWind Solutions MesoMap wind mapping system. For more info see www.vtenergyatlas-info.com/wind/methodology

There are currently no commercial wind facilities in the area.

Areas identified with high wind potential and no known or possible constraints. Darker areas

Areas identified with high wind potential and no known constraints. May have one or more

Wind Resources Map Town Energy Plan 2019 Town of Springfield, VT Adopted: 11-11-2019

Data Sources: Wind Facilities (VT Energy Dashboard. Sites listed on Atlas on 02/03/2017), Prime and Secondary Wind Potential (VCGI 2017) (No additional Regional or Town Constraints), Substations (BCRC 2015 and SWCRPC 2016), Three Phase Electricity Lines (BCRC 2015), Transmission Lines (RPC 2016), Waterbodies (VHD 2008), Roads (VTrans 2016), Town Boundary (SWCRPC 2013 using Parcels 2013)

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