

Appendix B: Enhanced Energy Planning Maps

Solar Resources Map

Town Energy Plan 2017

Town of Springfield, VT

Adopted: DRAFT

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

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-and-determination-standards>

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.



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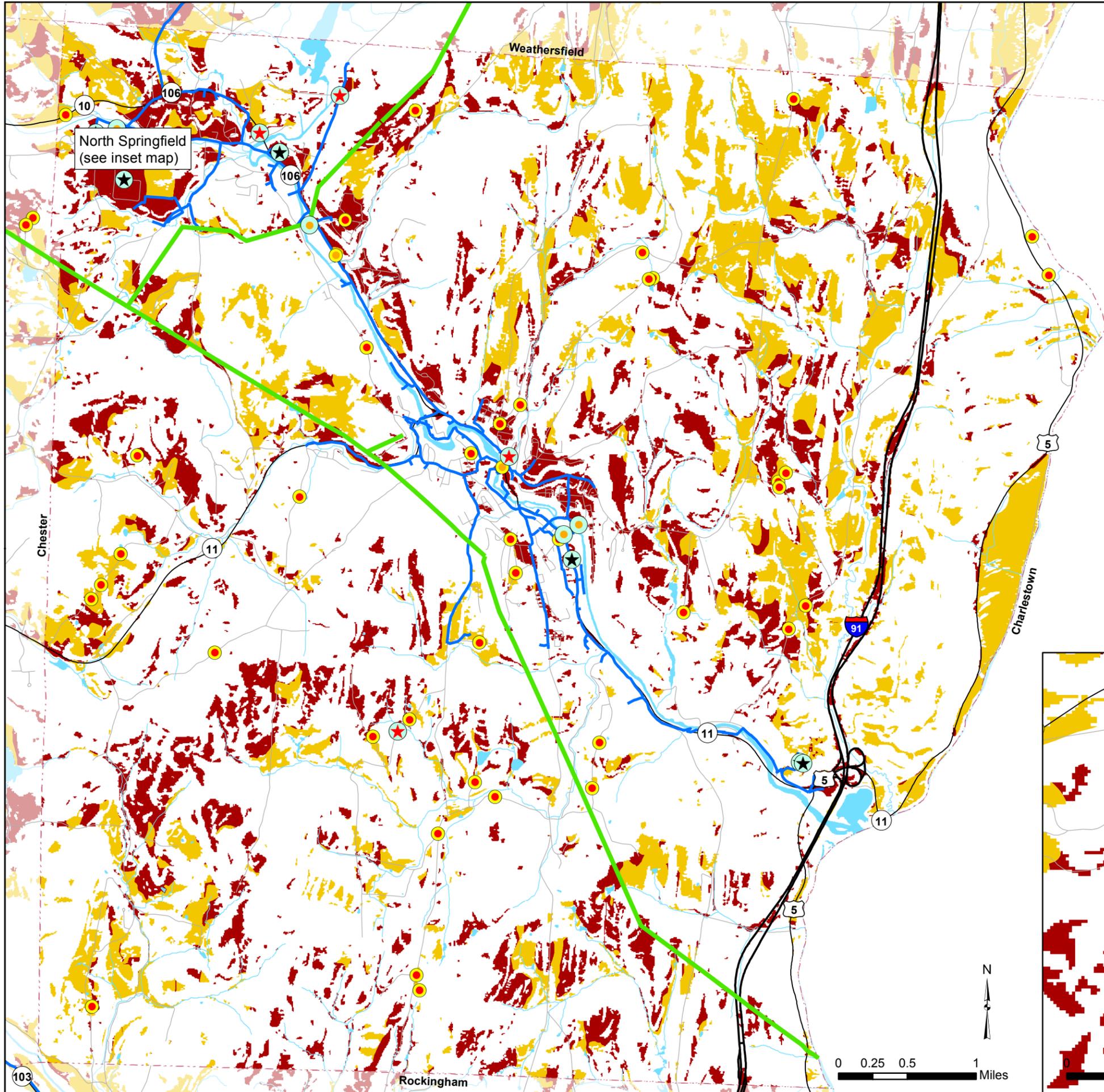
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Drawn August 30, 2017

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.

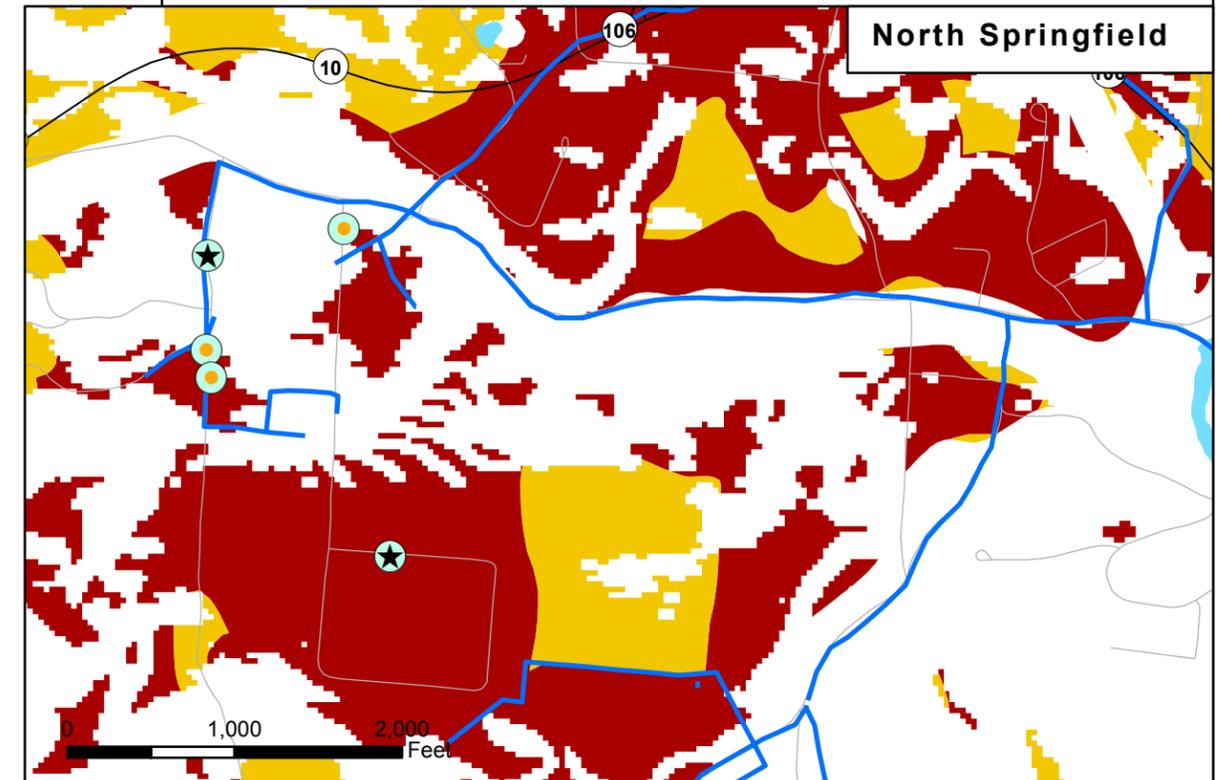
Solar potential for ground-mounted systems was calculated to consider the following conditions: slope direction, slope steepness, and radiation values from ESRI solar analyst
For more info see <http://vcgi.vermont.gov/opendata/act174>

Existing solar energy generation sites

- 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
- Prime solar resource
- Secondary solar resource
- Electric Transmission Line
- Three Phase Electricity Distribution Lines
- Interstate
- US & VT Highway; and Class 1 Town Hwy
- All other roads and ROW
- Rivers and Streams
- Lakes and Ponds
- Town Boundary



0 0.25 0.5 1 Miles



103

Rockingham

North Springfield
(see inset map)

Weathersfield

Charlestown

Chester

North Springfield

Wind Resources Map Town Energy Plan 2017 Town of Springfield, VT Adopted: DRAFT

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-and-determination-standards>

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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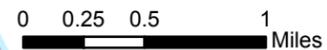
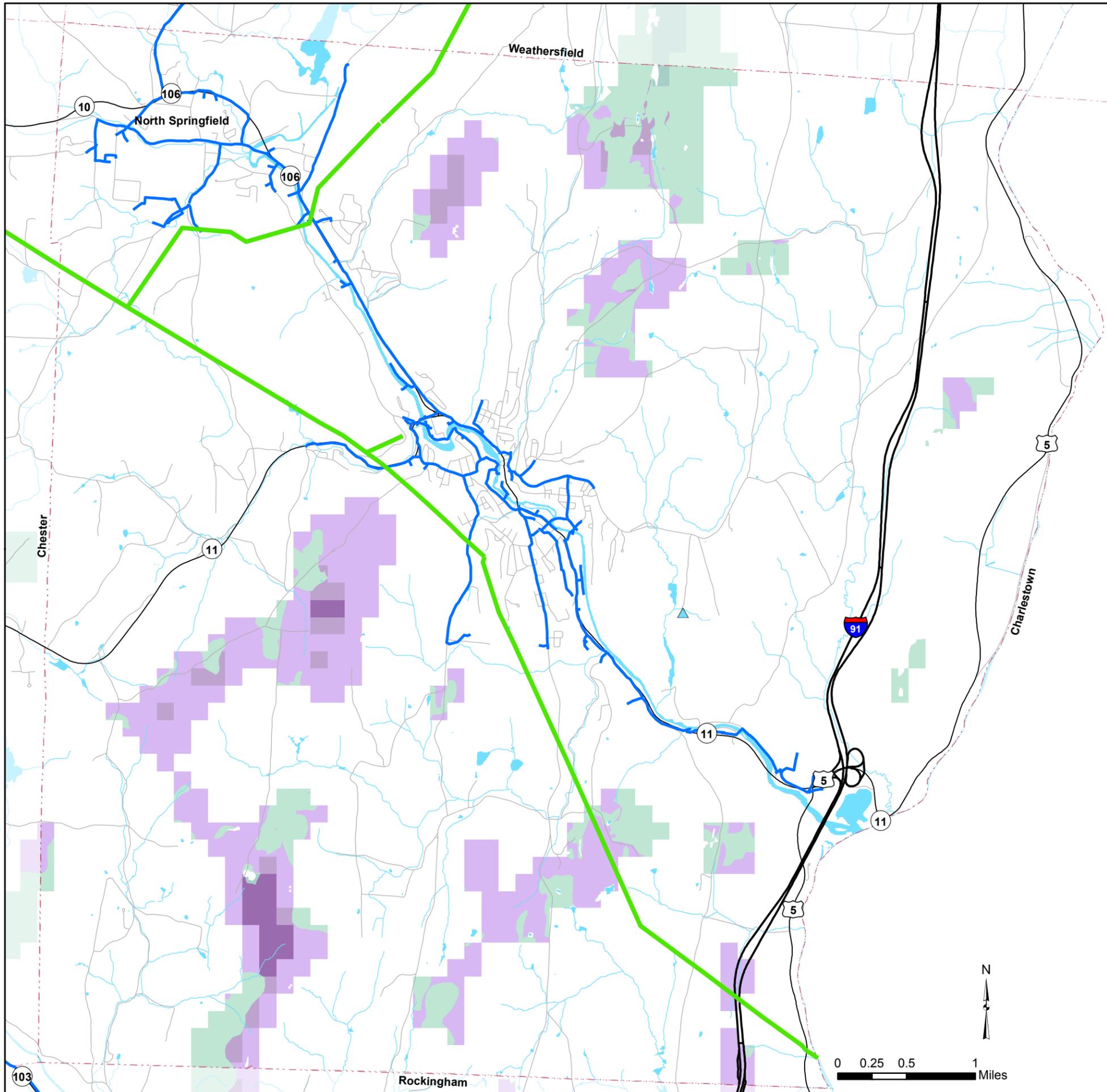
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- Prime Wind Potential**
Areas identified with high wind potential and no known or possible constraints. Darker areas have higher wind speed.
- Secondary Wind Potential**
Areas identified with high wind potential and no known constraints. May have one or more possible constraints. Darker areas have higher wind speeds

- ▲ Commercial Wind Facility
- ▲ Residential Wind Facility
- Electric Transmission Line
- Three Phase Electricity Distribution Lines
- Interstate
- 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.



Hydro Resources Map

Town Energy Plan 2017

Town of Springfield, VT

Adopted: DRAFT

This map shows the potential for hydro energy production considering

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

Potential hydro electric generation sites were identified by using existing dam location data for all of Vermont and then estimating electric production. Estimating is an inexact science, and estimates can vary widely between different studies. For more info see www.vtenergyatlas-info.com/hydro/methodology

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

-  Existing Hydro Sites
- Potential Hydro Sites**
-  Undeveloped hydro potential over 50 KW
-  Undeveloped hydro potential less than 50KW
-  Potential with penstock
-  Substation
-  Electric Transmission Line
-  Three Phase Electricity Distribution Lines
-  Interstate
-  US & VT Highway; and Class 1 Town Hwy
-  All other roads and ROW
-  Rivers and Streams
-  Lakes and Ponds
-  Town Boundary

Data Sources: Existing and Potential Hydro Sites (VSJF 2010), 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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