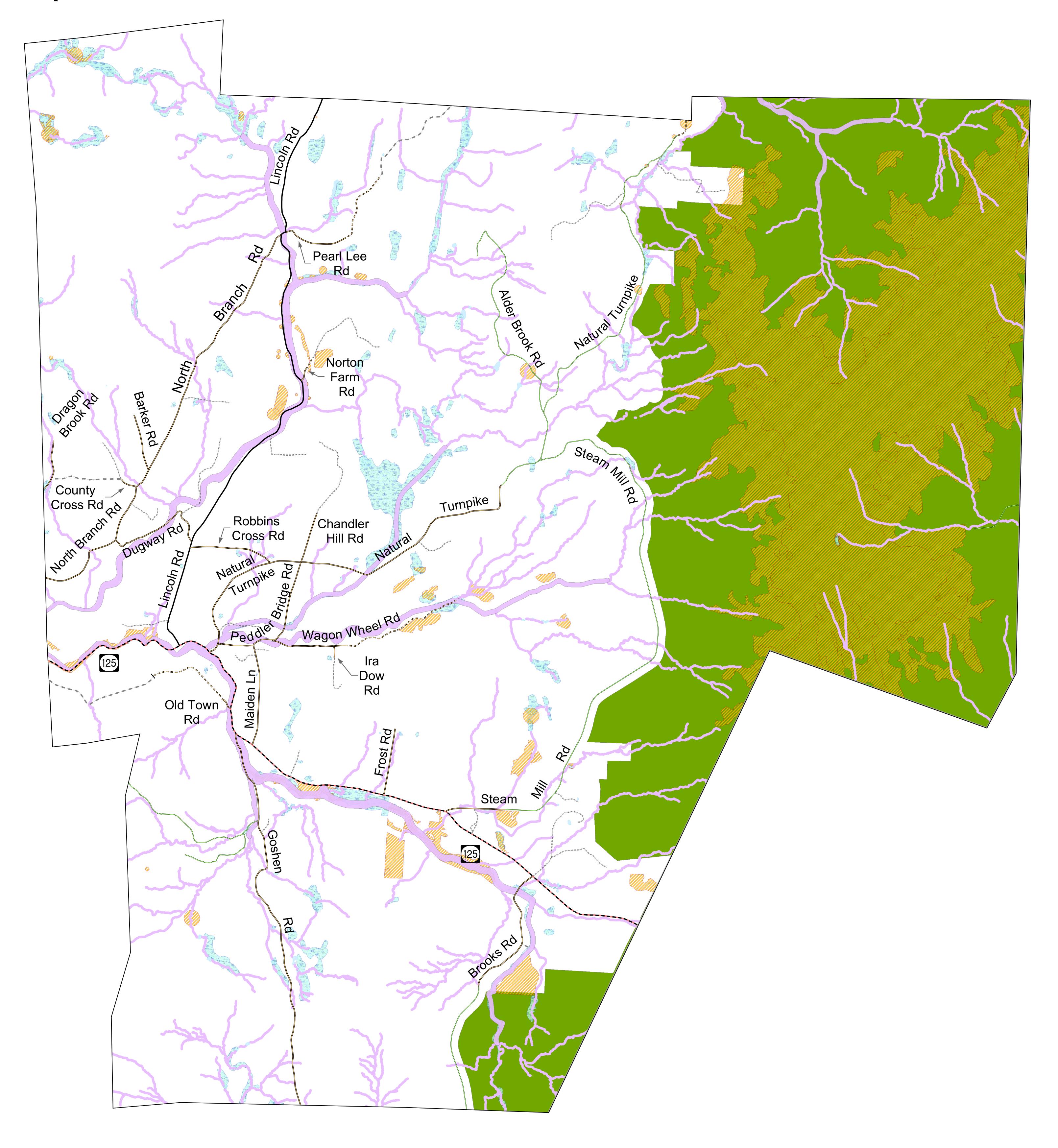
### Renewable Energy Planning: Known Constraints

### - Ripton



#### Legend

Vernal Pools (confirmed and unconfirmed layers)

Known Constraints (State Energy Planning Guidelines)

Vernal Pools (confirmed and unconfirmed)
DEC River Corridors (inc stream 5oft buffer)
FEMA Floodways
FEMA Floodways
State Significant natural Communities and
Rare, Threatened and Endangered Species
National Wilderness Areas
Class 1 and Class 2 Wetlands (VSWI and advisory layers)
Regionally or Locally Identified Critical Resources (none currently)

State River Corridors (inc 50ft buffers on sm streams)

FEMA Floodways

Natural Communities and Rare, Threatened and Endangered

Vermont Significant Wetlands (Class 1 & 2 and advisory layers)

National Wilderness Areas



This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department.

Renewable Energy Planning: Possible Constraints - Ripton ider Brook Rd Norton Farm Rd Barker Rd County Turnpike Robbins Chandler

# Cross Rd 28 Dugway Rd) Cross Rd Hill Rd Lincoln Rd Natural rumpike of Wagon Wheel Rd Ira Maiden Ln Dow Rd Old Town Rd Steam 125

#### Legend

Agricultural Soils FEMA Special Flood Hazard Areas Protected Lands Agricultural Soil Mitigation (Act 250) Deer Wintering Areas Highest Priority Forest Blocks Hydric Soils

0.5 Addison County **REGIONAL PLANNING COMMISSION** 

This map was created as part of a Regional Energy Planning Initiative N with funding from the Vermont Public Service Department.

Possible Constraints (State Energy Planning Guidelines)

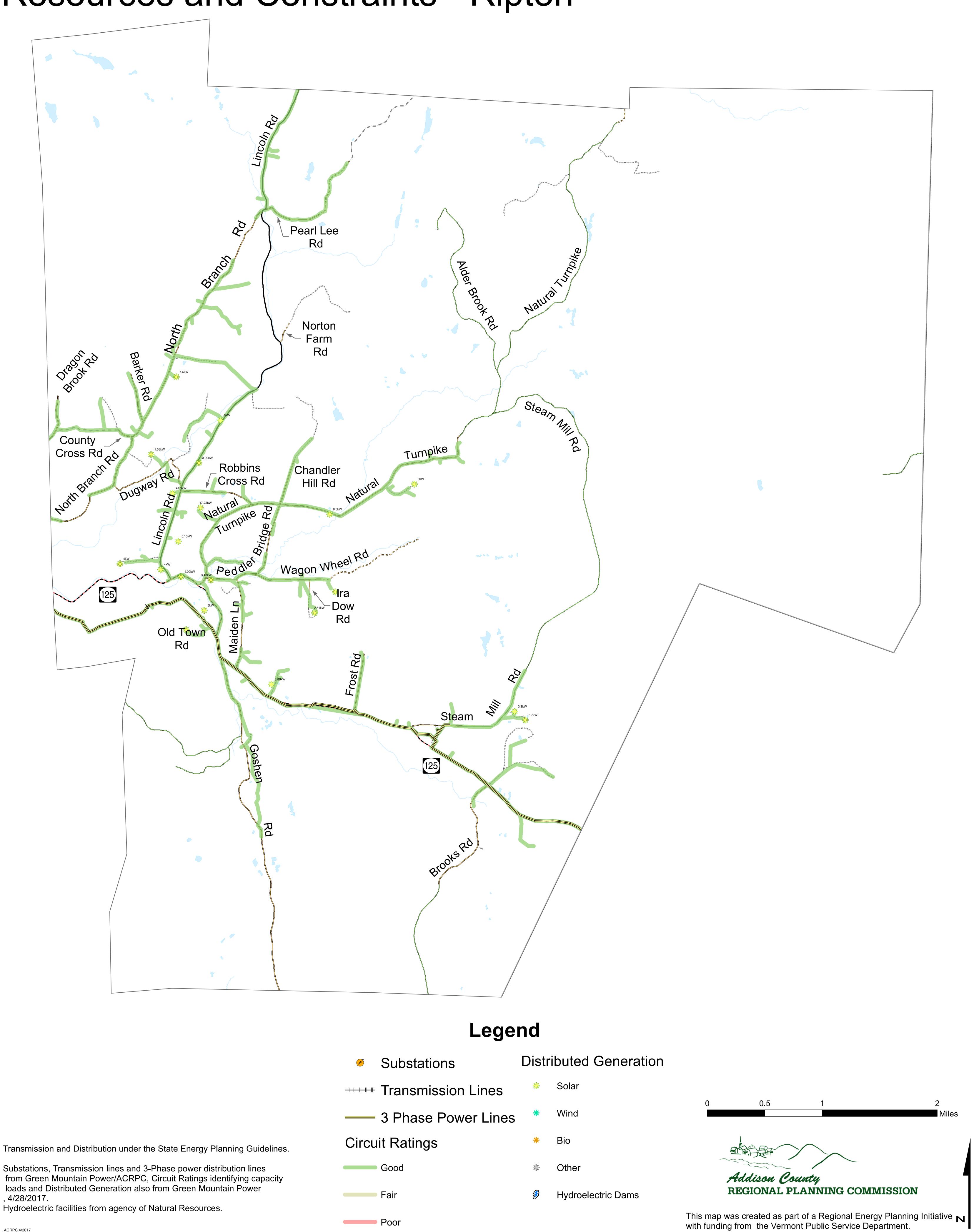
Agricultural Soils (Prime, Statewide and Local USDA) FEMA Special Flood Hazard Areas Protected Lands (State fee lands and prvt cons lands) Act 250 Agricultural Soil Mitigation areas Deer Wintering Arreas

ANR's Vermont Conservation Design Highest Priority Forest Blocks

Hydric Soils

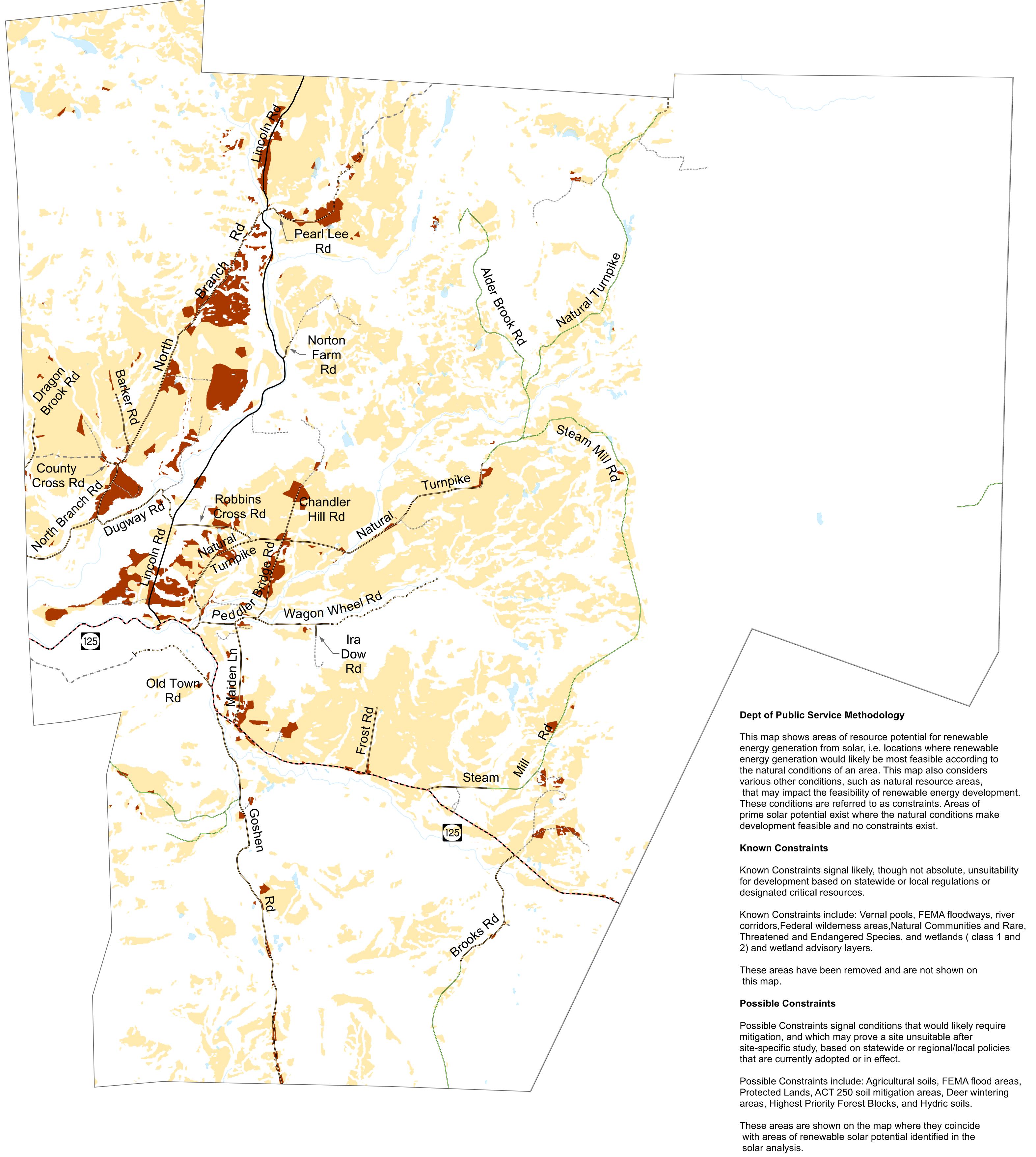
Regionally or Locally Identified Critical Resources (none currently)

# Renewable Energy Potential: Transmission and Distribution Resources and Constraints - Ripton



# Renewable Energy: Potential Solar Resource Siting Areas

#### - Ripton



#### Legend

Primary Solar Resource Siting Areas

Secondary Solar Resource Siting Areas

Solar Potential Analysis under the State Energy Planning Guidelines.

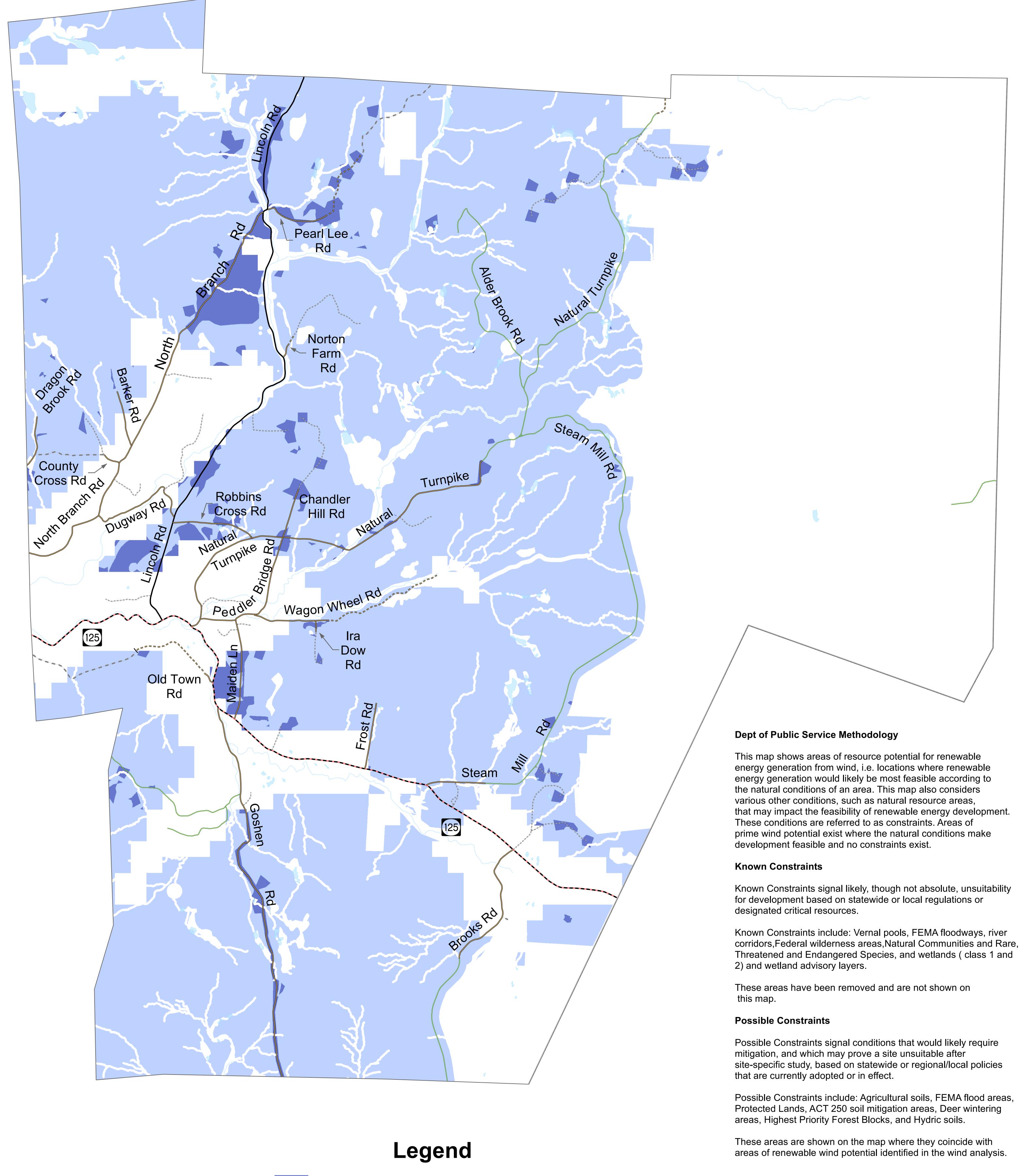
Statewide ground based (30m USGS DEM) solar potential layer created with ESRI solar analyst by VCGI. Filtered by SLOPE (<= 14%), ASPECT (90-270 degrees) and values >= 1,000 kWh/sq meter.



This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department.

# Renewable Energy: Potential Wind Resource Siting Areas

- Ripton



Primary Wind Resource Siting Areas

Secondary Wind Resource Siting Areas

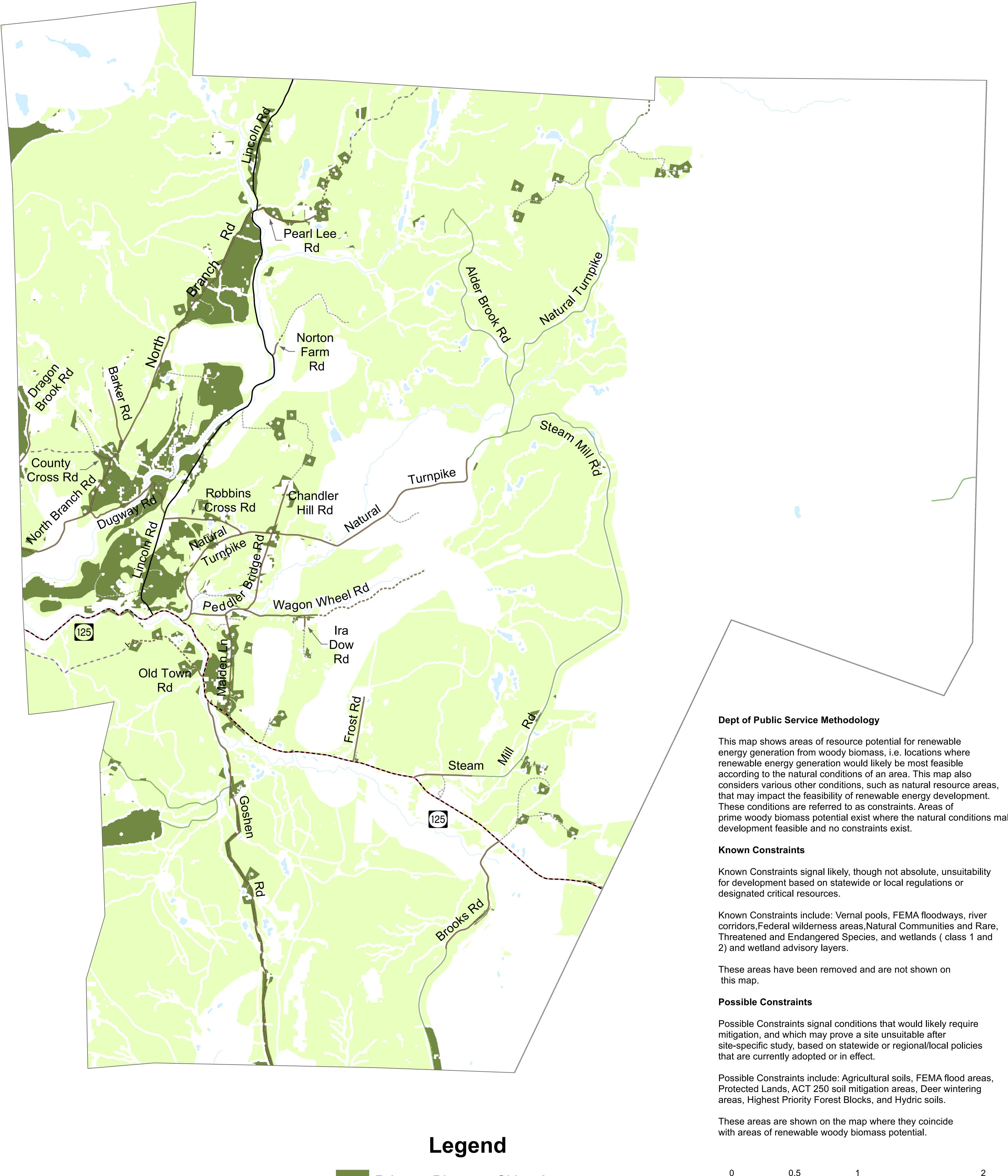
Wind Potential Analysis under the State Energy Planning Guidelines.

Statewide 30m, 50m, and 70m wind speed layers from Mass. Tech Collaborative wiere filtered for minimum wind speed, then merged into a single file by VCGI.

Addison County
REGIONAL PLANNING COMMISSION

This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department.

### Renewable Energy: Potential Woody Biomass Resource Siting Areas - Ripton



Primary Biomass Siting Areas

Woody Biomass Potential Analysis under the State Energy Planning Guidelines.

Statewide forest cover types from the 2006 National Land Cover Dataset (NLCD, 2006) were merged into a single file and used to calculate low-grade green tons per acre by VCGI. The forest cover areal extent was used in this analysis.

Secondary Biomass Siting Areas

prime woody biomass potential exist where the natural conditions make



Ν

This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department.