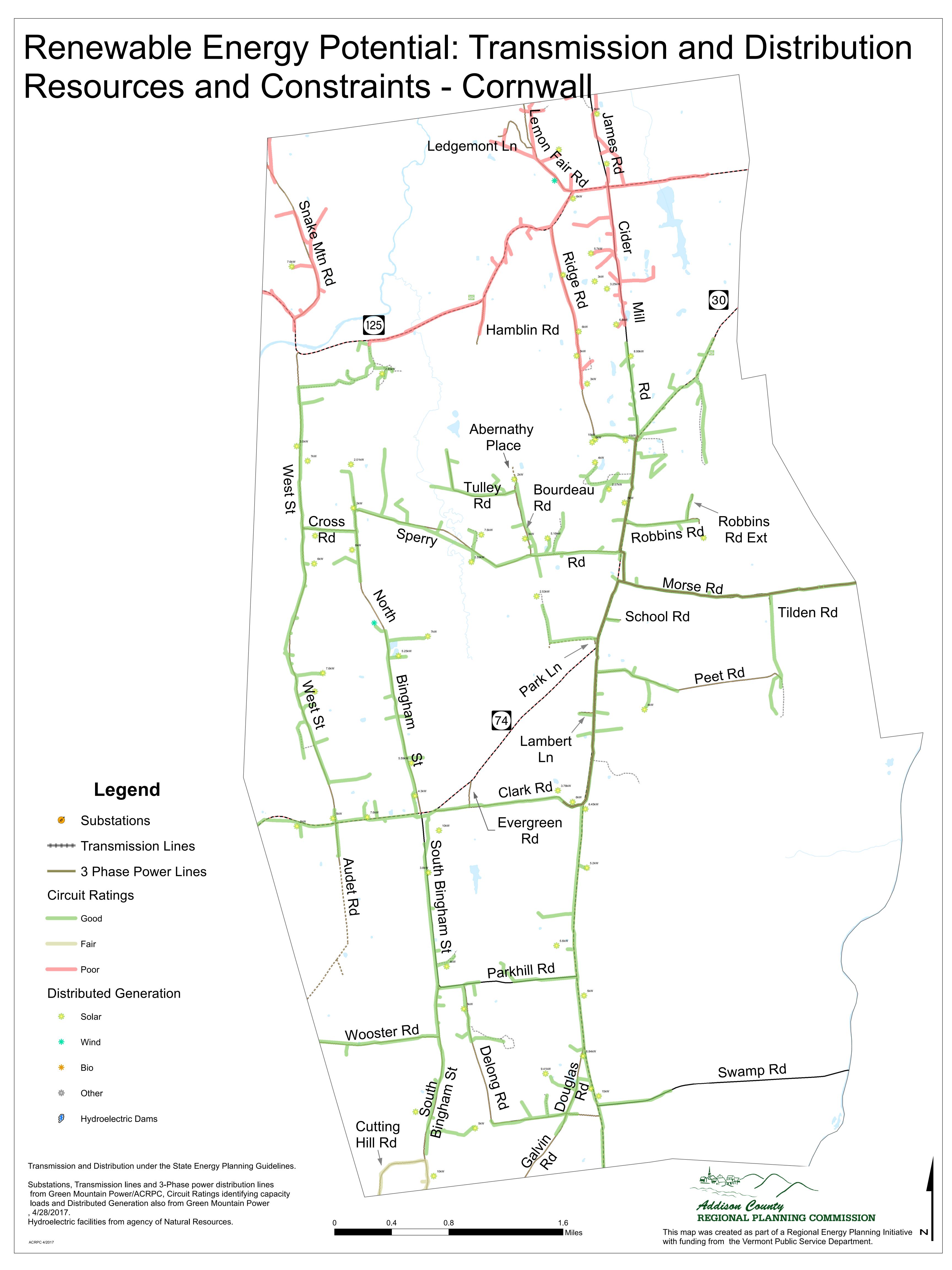
Renewable Energy Planning: Known Constraints - Cornwall Ledgemont Ln 125 Hamblin Rd Rd Abernathy Place West St Tulley Bourdeau Rd Rd Cross Robbins Robbins Rd Sperry Rd Ext Rd Rd Morse Rd Tilden Rd School Rd Parkln Peet Rd Bingham West St Lambert St Clark Rd Evergreen Rd South Bingham Legend Parkhill Rd Vernal Pools (confirmed and unconfirmed layers) State River Corridors (inc 50ft buffers on sm streams) Wooster Rd FEMA Floodways pelong Natural Communities and Rare, Threatened and Endangered Swamp Rd South Bingham Vermont Significant Wetlands (Class 1 & 2 and advisory layers) Rd National Wilderness Areas Cutting Hill Rd Known Constraints (State Energy Planning Guidelines) Vernal Pools (confirmed and unconfirmed) DEC River Corridors (inc stream 5oft buffer) FEMA Floodways State Significant natural Communities and Rare, Threatened and Endangered Species Addison County National Wilderness Areas Class 1 and Class 2 Wetlands (VSWI and advisory layers) **REGIONAL PLANNING COMMISSION** 8.0 1.6 Regionally or Locally Identified Critical Resources (none currently) This map was created as part of a Regional Energy Planning Initiative Ν with funding from the Vermont Public Service Department. ACRPC 4/2017

Renewable Energy Planning: Possible Constraints - Cornwall Ledgemont Ln Hamblin Rd Abernathy Place West St Tulley Bourdeau Rd Rd Cross Robbins Robbins Rd Sperry Rd Ext Rd Rd Morse Rd Tom Tilden Rd School Rd Peet Rd Bingham West St Lambert Clark Rd Evergreen Rd _ South Bingham Legend Agricultural Soils Parkhill Rd FEMA Special Flood Hazard Areas **Protected Lands** Wooster Rd Agricultural Soil Mitigation (Act 250) Delon9 Deer Wintering Areas Swamp Rd Highest Priority Forest Blocks Hydric Soils Cutting Hill Rd 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 Addison County ANR's Vermont Conservation Design Highest Priority Forest Blocks Hydric Soils REGIONAL PLANNING COMMISSION Regionally or Locally Identified Critical Resources (none currently) 8.0 1.6 0.4 This map was created as part of a Regional Energy Planning Initiative N Miles with funding from the Vermont Public Service Department.

ACRPC 4/2017



Renewable Energy: Potential Solar Resource Siting Areas - Cornwall Hamblin Rd Abernathy Place Tulley Bourdeau Rd Robbins Cross Robbins Rd Sperry Rd Ext Rd Rd Morse Rd Tilden Rd School Rd Peet Rd **Dept of Public Service Methodology** Bingham 74 Lambert development feasible and no constraints exist. Clark Rd **Known Constraints** Known Constraints signal likely, though not absolute, unsuitability Evergreen designated critical resources. Known Constraints include: Vernal pools, FEMA floodways, river

This map shows areas of resource potential for renewable energy generation from solar, i.e. locations where renewable energy generation would likely be most feasible according to the natural conditions of an area. This map also considers various other conditions, such as natural resource areas, that may impact the feasibility of renewable energy development. These conditions are referred to as constraints. Areas of prime solar potential exist where the natural conditions make

for development based on statewide or local regulations or

corridors, Federal wilderness areas, Natural Communities and Rare, Threatened and Endangered Species, and wetlands (class 1 and 2) and wetland advisory layers.

These areas have been removed and are not shown on this map.

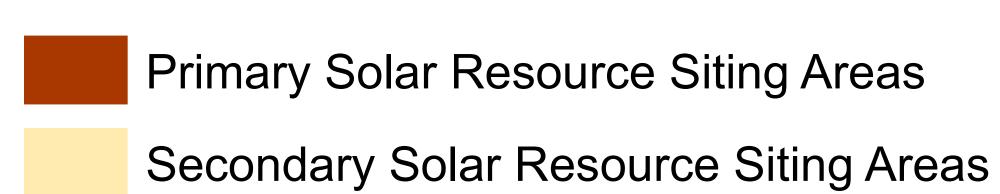
Possible Constraints

Possible Constraints signal conditions that would likely require mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies that are currently adopted or in effect.

Possible Constraints include: Agricultural soils, FEMA flood areas, Protected Lands, ACT 250 soil mitigation areas, Deer wintering areas, Highest Priority Forest Blocks, and Hydric soils.

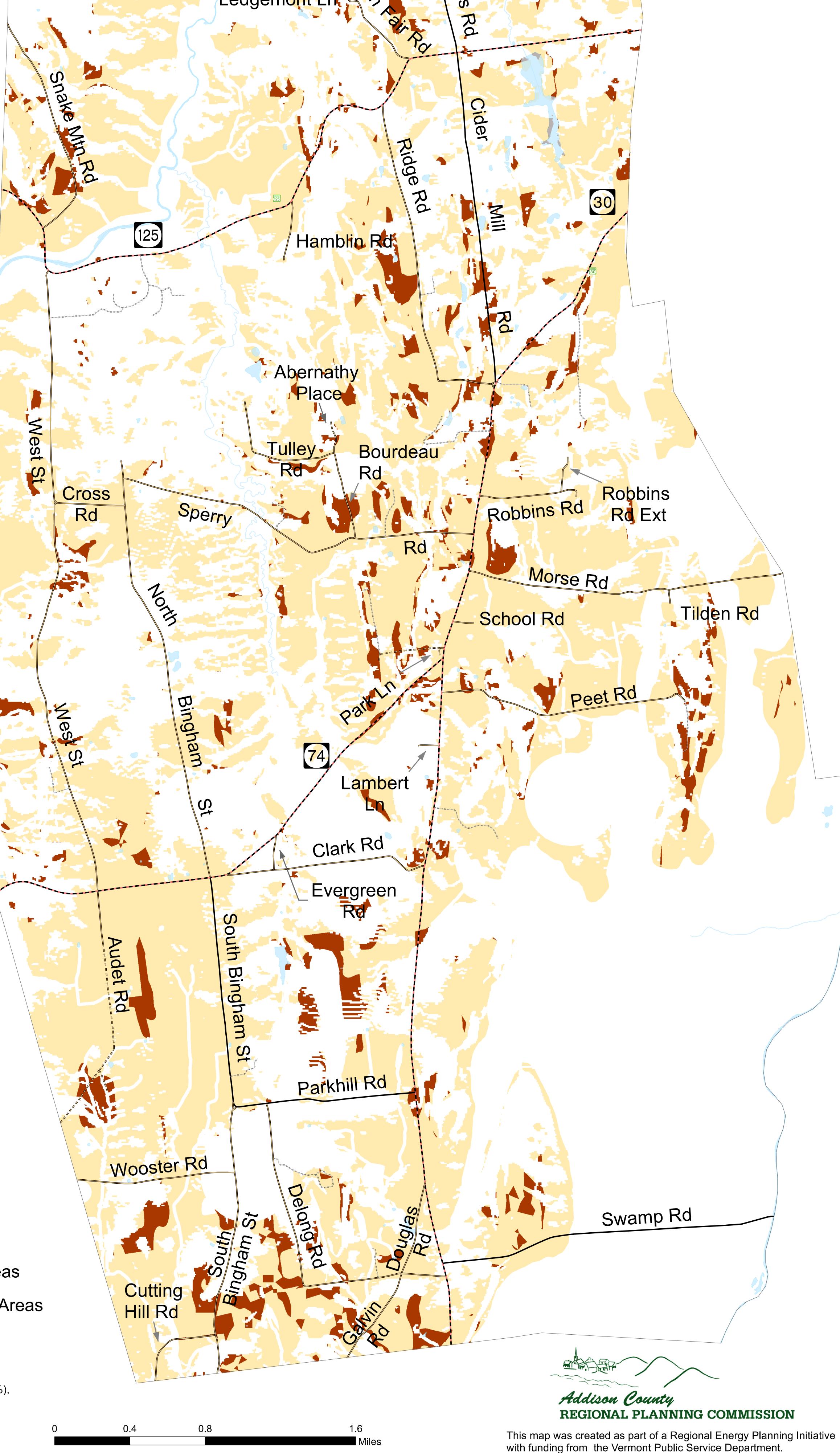
These areas are shown on the map where they coincide with areas of renewable solar potential identified in the solar analysis.

Legend



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.



ACRPC 4/2017

Renewable Energy: Potential Wind Resource Siting Areas - Cornwall Ledgemont Ln Hamblin Rd Abernathy Place Tulley Bourdeau Rd Rd Robbins Cross Robbins Rd Sperry Rd Ext Rd Rd Morse Rd Tilden Rd School Rd Peet Rd Bingham **Dept of Public Service Methodology** This map shows areas of resource potential for renewable energy generation from wind, i.e. locations where renewable energy generation would likely be most feasible according to S the natural conditions of an area. This map also considers various other conditions, such as natural resource areas, Lambert that may impact the feasibility of renewable energy development. These conditions are referred to as constraints. Areas of prime wind potential exist where the natural conditions make development feasible and no constraints exist. Clark Rd **Known Constraints** Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or Evergreen designated critical resources. South Known Constraints include: Vernal pools, FEMA floodways, river corridors, Federal wilderness areas, Natural Communities and Rare, Audet Threatened and Endangered Species, and wetlands (class 1 and 2) and wetland advisory layers. Bingham These areas have been removed and are not shown on this map. **Possible Constraints** Possible Constraints signal conditions that would likely require 35 mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies Parkhill Rd that are currently adopted or in effect. Possible Constraints include: Agricultural soils, FEMA flood areas, Protected Lands, ACT 250 soil mitigation areas, Deer wintering areas, Highest Priority Forest Blocks, and Hydric soils. These areas are shown on the map where they coincide with Wooster Rd areas of renewable wind potential identified in the wind analysis. Swamp Rd Legend Primary Wind Resource Siting Areas Cutting Secondary Wind Resource Siting Areas Hill Rd Wind Potential Analysis under the State Energy Planning Guidelines.

Addison County

with funding from the Vermont Public Service Department.

1.6

0.4

REGIONAL PLANNING COMMISSION

This map was created as part of a Regional Energy Planning Initiative

ACRPC 4/2017

Statewide 30m, 50m, and 70m wind speed layers from

then merged into a single file by VCGI.

Mass. Tech Collaborative wiere filtered for minimum wind speed,

Renewable Energy: Potential Woody Biomass Resource Siting Areas - Cornwall Ledgemont L 30 Hamblin Rd Abernathy Place ' Tulley Bourdeau Robbins Cross Robbins Rd Sperry Rd Ext Rd Rd Morse Rd Tilden Rd School Rd **Dept of Public Service Methodology** Peet Rd Bingham Nest This map shows areas of resource potential for renewable energy generation from woody biomass, i.e. locations where renewable energy generation would likely be most feasible according to the natural conditions of an area. This map also 74 considers various other conditions, such as natural resource areas, that may impact the feasibility of renewable energy development. These conditions are referred to as constraints. Areas of prime Lambert woody biomass potential exist where the natural conditions make Ln development feasible and no constraints exist. **Known Constraints** Clark Rd Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources. Evergreen Known Constraints include: Vernal pools, FEMA floodways, river corridors, Federal wilderness areas, Natural Communities and Rare, South Threatened and Endangered Species, and wetlands (class 1 and 2) and wetland advisory layers. These areas have been removed and are not shown on Bingham this map. **Possible Constraints** Possible Constraints signal conditions that would likely require mitigation, and which may prove a site unsuitable after site-specific study, based on statewide or regional/local policies 35 that are currently adopted or in effect. Parkhill Rd Possible Constraints include: Agricultural soils, FEMA flood areas, Protected Lands, ACT 250 soil mitigation areas, Deer wintering areas, Highest Priority Forest Blocks, and Hydric soils. These areas are shown on the map where they coincide with areas of renewable woody biomass potential. Wooster Rd Swamp Rd Legend Primary Biomass Siting Areas Cutting Secondary Biomass Siting Areas Hill Rd 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 Addison County extent was used in this analysis. **REGIONAL PLANNING COMMISSION** 0.4 8.0 This map was created as part of a Regional Energy Planning Initiative with funding from the Vermont Public Service Department. ACRPC 4/2017