

Renewable Energy: Potential Solar Resource Siting Areas





Dept of Public Service Methodology

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 development feasible and no constraints exist.

Known Constraints

Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources.

Known Constraints include: Vernal pools, FEMA floodways, river 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.

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.

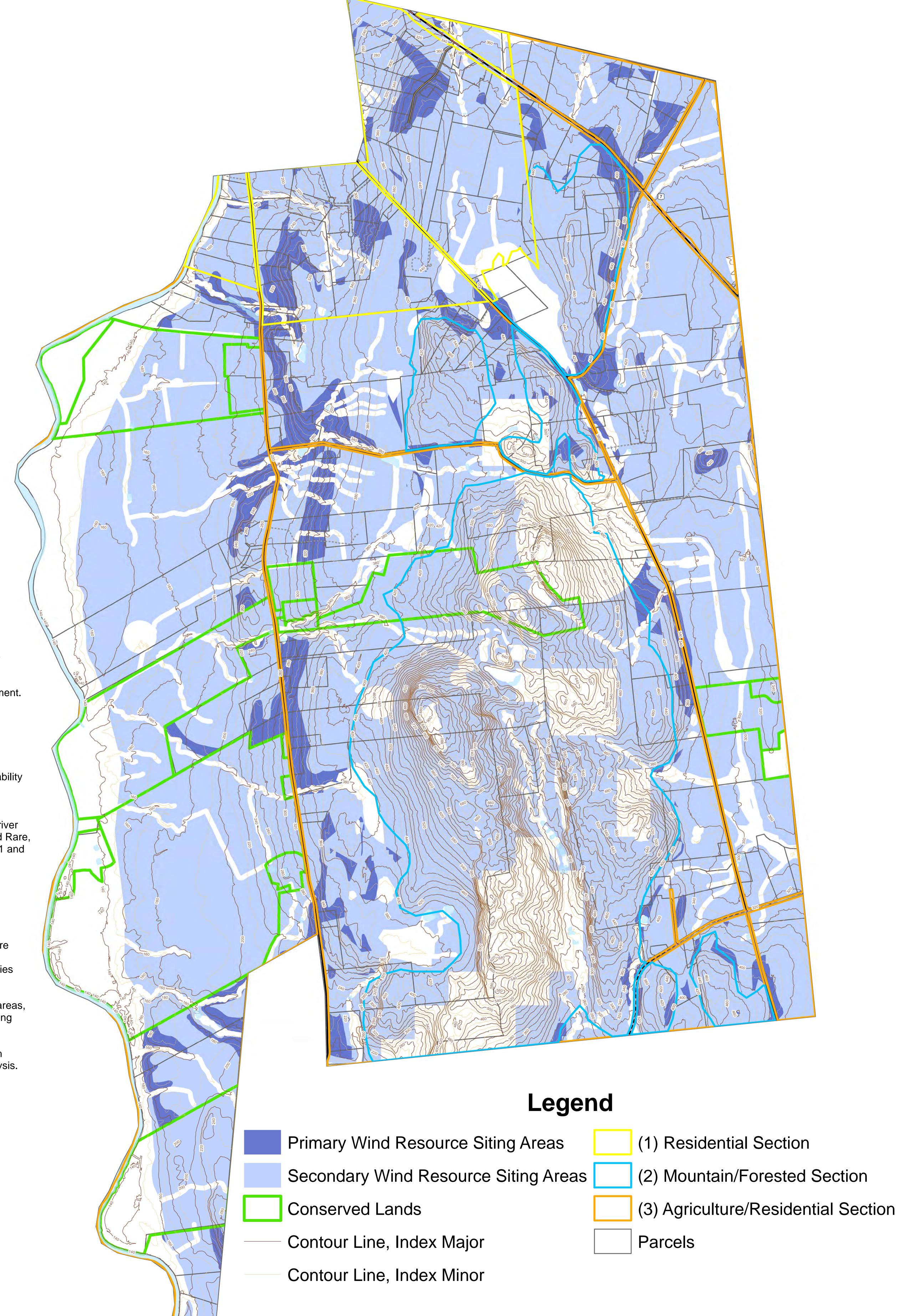
REGIONAL PLANNING COMMISSION

Addison County

Renewable Energy: Potential Solar Resource Siting Areas - Waltham (Forested Areas Excluded) **Dept of Public Service Methodology** 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 development feasible and no constraints exist. **Known Constraints** Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources. Known Constraints include: Vernal pools, FEMA floodways, river 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 Primary Solar Resource Siting Areas (1) Residential Section Secondary Solar Resource Siting Areas (2) Mountain/Forested Section (3) Agriculture/Residential Section Conserved Lands Contour Line, Index Major Parcels Contour Line, Index Minor 0.25 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%), Addison County ASPECT (90-270 degrees) and values >= 1,000 kWh/sq meter. **REGIONAL PLANNING COMMISSION**

Renewable Energy: Potential Wind Resource Siting Areas

- Waltham



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 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 wind potential exist where the natural conditions make development feasible and no constraints exist.

Known Constraints

Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources.

Known Constraints include: Vernal pools, FEMA floodways, river 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 wind potential identified in the wind analysis.

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.

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0.55

1.1

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

0.275

Renewable Energy: Potential Wind Resource Siting Areas - Waltham (Forested Areas Excluded) **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 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 wind potential exist where the natural conditions make development feasible and no constraints exist. **Known Constraints** Known Constraints signal likely, though not absolute, unsuitability for development based on statewide or local regulations or designated critical resources. Known Constraints include: Vernal pools, FEMA floodways, river 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 wind potential identified in the wind analysis. Legend Primary Wind Resource Siting Areas (1) Residential Section Secondary Wind Resource Siting Areas (2) Mountain/Forested Section Conserved Lands (3) Agriculture/Residential Section Contour Line, Index Major Parcels Contour Line, Index Minor 0.275 0.55 1.1 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, Addison County then merged into a single file by VCGI. REGIONAL PLANNING COMMISSION This map was created as part of a Regional Energy Planning Initiative Ν

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