

The Chittenden County Regional Planning Commission (CCRPC) is embarking on the 2018 ECOS Plan, an update to the 2013 ECOS Plan. This update will focus mainly on updates to the Metropolitan Transportation Plan and Comprehensive Economic Development Strategy, and will serve as the Regional Enhanced Energy Plan. This document provides an overview of the energy sections and is the first of a three-part series (energy, economy, and transportation). Please note that this overview does not reflect all updates and changes to the energy sections; for a detailed look, view the full draft at http://www.ecosproject.com/2018-ecos-plan/#plan.

Part 1 of 3: ENERGY UPDATE

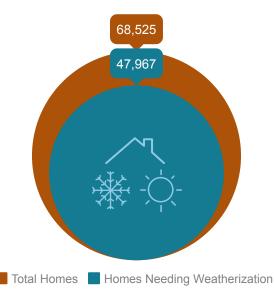
The update to the energy section identifies actions for reducing energy consumption and reliance on fossil fuels for all sectors of energy (heating, electricity, and transportation). Doing enhanced energy planning for the region will align us with the State's energy goals and means the ECOS Plan will have a larger role in the permitting of renewable energy projects at the State level. After the ECOS Plan is approved in June 2018, the CCRPC will be able to review town plans for a determination of energy certification which, if granted, will allow municipalities more influence in the siting of renewable energy projects. Below are a number of energy-related strategies that will enhance the 2018 ECOS Plan.

USE 1/3 LESS ENERGY FOR HEATING, TRAVEL & APPLIANCES

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Collaborate with utilities to reduce energy use through weatherization of homes and businesses, and the installation of more efficient appliances.

70% of Chittenden County homes need to be weatherized by 2050.



ecos

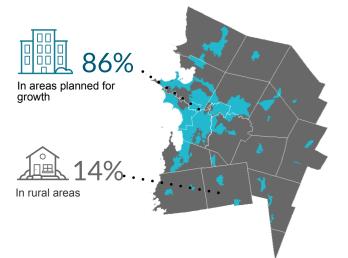
What is the ECOS Plan?

Since 1976, the Chittenden County Regional Planning Commission has been producing a Regional Plan to protect the County's resources and guide its development. The ECOS Plan is the 2013 regional plan for Chittenden County and includes the Metropolitan Transportation Plan and the Comprehensive Economic Development Strategy. Learn more at ecosproject.com.

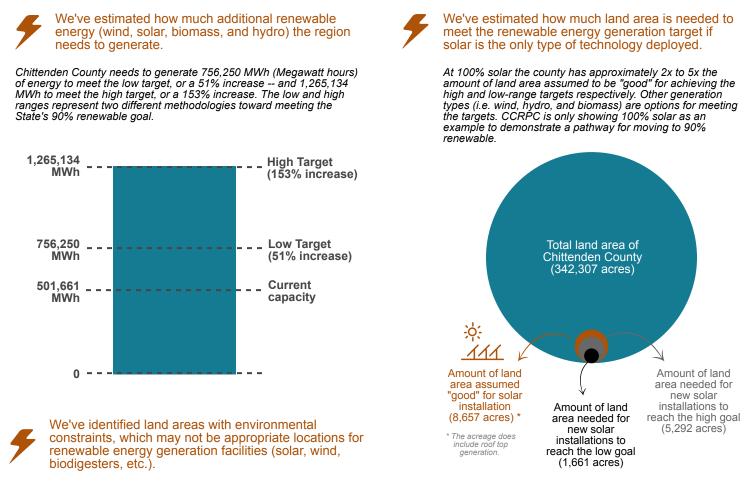


Plan for a majority of new growth to take place in compact areas to reduce travel distances, provide for more energy efficient buildings, and encourage walking, biking, and transit use.

On average, 86% of homes built in Chittenden County since 2012 are in areas planned for growth, exceeding the 80% goal outlined in the ECOS Plan.



90% OF ENERGY NEEDS TO BE FROM RENEWABLE SOURCES BY 2050



View a detailed map on the next page. White areas (8,657 acres and described as "good" above) and possible constraint areas (67,371 acres) are potentially appropriate areas for these facilities, while known constraints are not.

TRANSFORM THE TRANSPORTATION & HEATING SECTORS TO ELECTRICITY POWERED BY RENEWABLE SOURCES



Because the transportation sector accounts for 38% of the county's energy use, it's important that we transform it through the promotion of electric vehicles and installation of electric vehicle charging stations.

Target: 89% of passenger cars should be electric.



total passenger cars in Chittenden County



are electric/plugin hybrid (less than 1%)

Because the heating sector accounts for 44% of the county's energy use, it's important that we collaborate with partners to reduce fossil fuel use in the heating sector through installation of heat pumps.

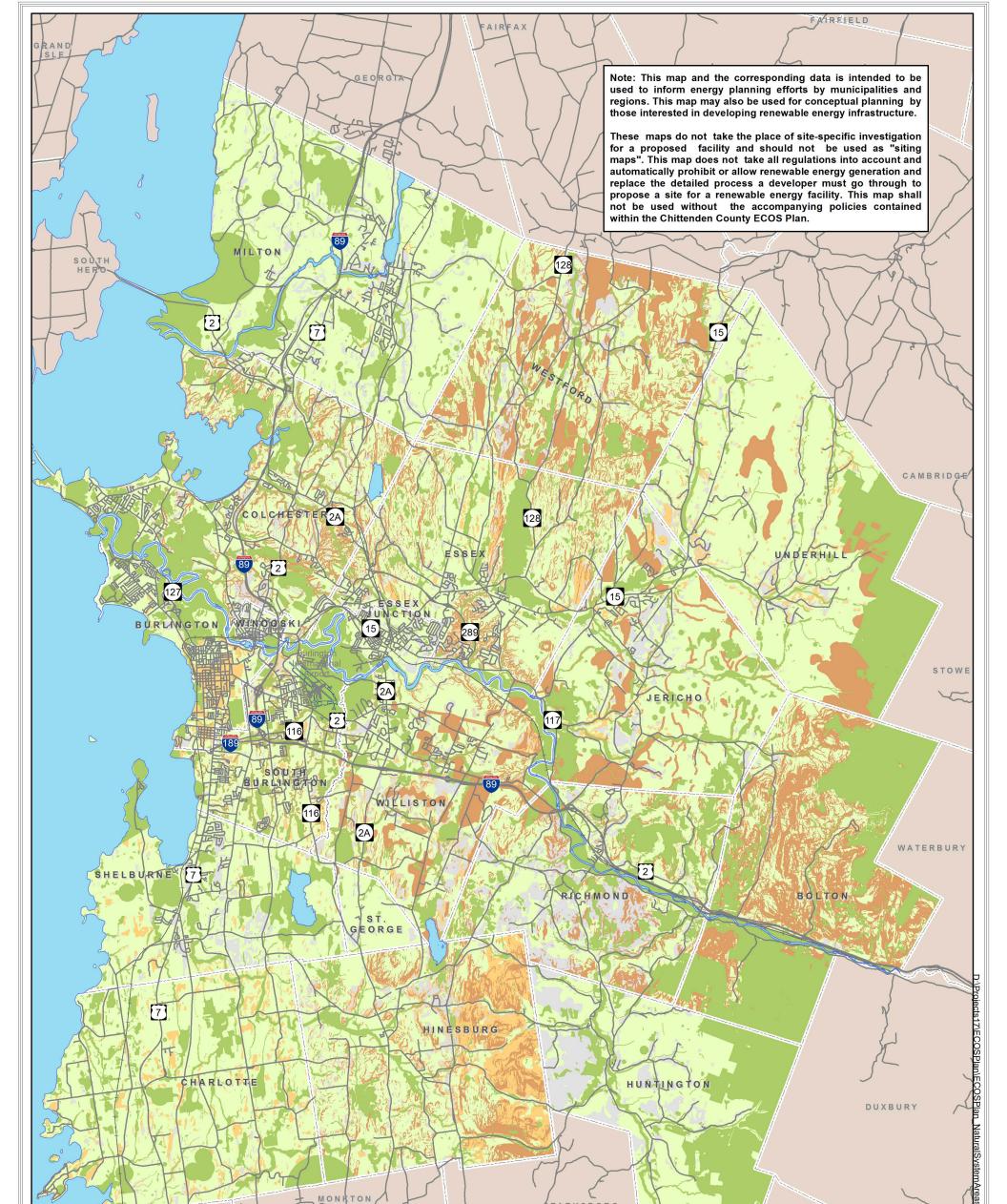
Cold climate heat pumps are more efficient than oil heating systems. While the cost of natural gas is lower, at \$14.88/MMBTU, transforming the heating sector to electricity reduces fossil fuel use and greenhouse gas emissions and keeps energy dollars in the State. Source: Vermont Fuel Price Report, November 2016





Cold climate heat pump

To learn more about the 2018 ECOS Plan and submit your feedback on energy planning, visit ecosproject.com/2018-ECOS-Plan.





State and Local Development Constraints

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Sources: Major Roads and Railroad - VTrans Town Boundary and Water Body - VCGI

Map produced with ArcGIS, State Plane Coordinate System NAD83.

Disclaime

Disclaimer: The accuracy of information presented is determined by its sources. Errors and omissions may exist. The Chittenden County Regional Planning Commission is not responsible for these. Questions of on-the-ground location can be resolved by site inspections and/or surveys by registered surveyor. This map is not sufficient for delineation of features on-the-ground. This map identifies the presence of features, and may indicate relationships between features, but is not a replacement for surveyed information or engineering studies.

FERRISBURG

State Known Constraints

Local Known Constraints

State Possible Constraints

Local Possible Constraints

2 1 4 ∎Miles

17 BUELS GORE

FAYSTON

C

SFIELD

1/18/2018

WAI.

CHITTENDEN COUNTY RPC

Communities Planning Together

TARKSBORO