

Comprehensive Energy Plan

Team Effort

State Government

- Public Service Dept.
- Agency of Natural Resources
- Agency of Transportation
- Agency of Agriculture, Food, & Markets
- Agency of Commerce & Community Development
- Agency of Human Services
- Dept. of Bldgs & General Services

Community & Business Partners

- Public Comments
- Utilities
- Energy Services Companies and Consultants
- Public Interest Organizations and Community Groups
- Business Community
- Town Energy Committees

Guiding goals

- **❖** A vibrant and equitable economy
- Healthy ecosystems and a sustainable environment
 - Healthy Vermonters

Economic, environmental, and human health ideals can be in conflict and implementation of a particular policy or program requires striking balances.

When there is consistency and an action positively impacts all of these areas, it deserves greater priority.

Goals for 2025 and beyond

Reduce total energy consumption per capita

- by 15% by 2025
- by more than 1/3 by 2050

Meet remaining with renewable sources

- 25% by 2025
- 40% by 2035
- 90% by 2050

Sectoral Goals

Buildings

Goals:

- 30% renewable by 2025
- All new buildings net zero by 2030

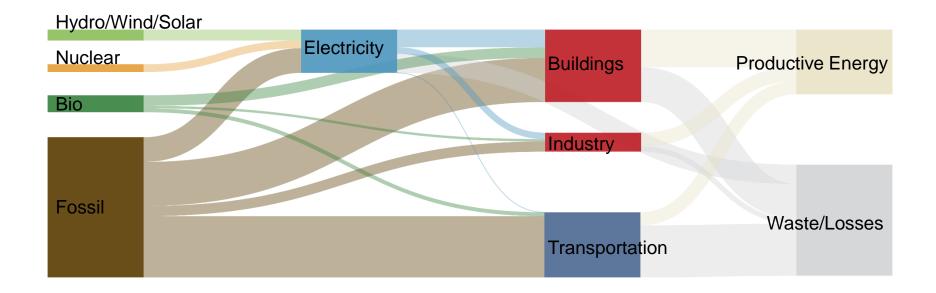
Transportation

Goal: 10% renewable by 2025

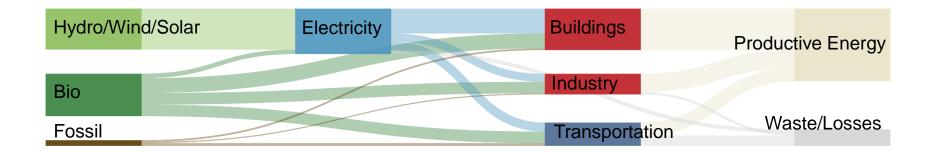
One way to get there:

- Keep VMT per capita at or below 2011 levels
- 10% of all light-duty vehicles plug in
- 10% average bio-content in diesel

Energy Flows: 2015



Energy Flows: 2050

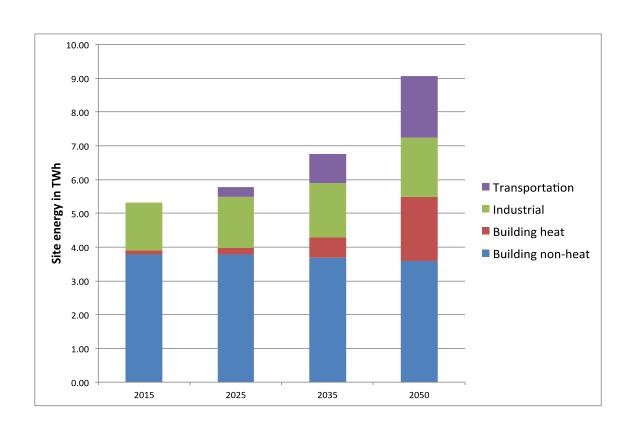


Efficiency – 3 ways

- Thermal and electric efficiency
- Electrification
- Renewable electric generation

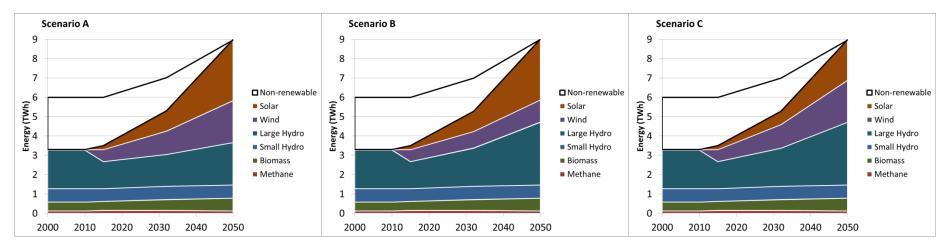
(More of the primary energy ends up as useful power)

Electric Power



3 Scenarios

- Electric usage goes up
- Different mixes are possible



Strategies

- Efficiency remains the lowest cost resource: Continue to pursue all reasonably available cost-effective efficiency
- Current state-wide programs driving 90 by 50:
 - Net Metering
 - Renewable Energy Standard (includes an electrification component)

Central Vermont

- Regional energy planning process
 - Modeling
 - End uses: heating, transportation, and electricity
 - Sectors: residential, commercial, industrial
 - Mapping
 - Public Process
 - Plan

Regions will chart their own path to 90% renewable by 2050.

Bennington Results

THIS IS THE AMOUNT OF LAND AREA IN THE BCRC REGION

(about 370,00 acres, or 575 sq. miles)

THIS IS THE
AMOUNT OF
THAT AREA
WHICH IS
CONSIDERED
"PRIME SOLAR."

(about 14,500 acres)



AND THIS IS ABOUT
THE AMOUNT OF
AREA THAT WOULD
BE NEEDED TO REACH
OUR 2050 GOAL OF
77MW ADDITIONAL
IN-REGION CAPACITY.

(about 700 acres)



Central Vermont

Transportation and heating

- Local land use planning and zoning are critical
- Options to consider:
 - EV charging stations in commercial permitting.
 - Support for public transportation.
 - Support for biodiesel refueling stations.
 - Dense zoning in towns and villages.
 - Support for weatherization and heat pumps.

For more information on the energy plan go to:

www.energyplan.vt.gov

