Vermont Comprehensive Energy Plan

Public Forum

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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 Dev.
- Agency of Human Services
- Dept. of Bldgs & General Services

Community & Business Partners
All of you!
- Utilities
- Energy Services Companies and Consultants
- Public Interest Organizations and Community Groups
- Business Community
- Town Energy Committees
Comprehensive Energy Plan

What is it?

Title 30, Section 202b-the CEP must include:

Comprehensive Analysis and Projections
- Usage
- Supply
- Cost
- Environmental Effects

Recommendations for State Implementation
- Actions – Public and Private
- Regulation
- Legislation

Title 30, Section 202 - Electric Plan
Comprehensive Energy Plan

Why create it?

Title 30, Section 202a:

To assure, to the greatest extent practicable, that Vermont can meet its energy service needs:

- In a manner that is **adequate, reliable, secure** and **sustainable**
- Assuring **affordability** and encouraging the state’s **economic vitality**
- Using energy resources **efficiently** and managing demands cost effectively
- Employing **environmentally sound** practices

Recommendations based upon all state law on the subject: e.g., GHG reduction goals, renewable energy goals
Overarching goals of CEP

✦ Address all energy sectors, not just electricity ✦

★ Strive for lower GHG footprint, toward state targets ★

★ Support in-state energy solutions & economic growth ★

★★ Keep Vermont’s costs regionally competitive ★★
Progress since 2011: Heating

List of examples:

✓ Continued state and utility efficiency programs
✓ H.40 (Ren. Energy Standard w/ Energy Transformation)
✓ Updated building energy codes
✓ Building Energy Disclosure Working Groups & Reports
✓ Thermal Efficiency Task Force
✓ Heat Saver Loan pilot
✓ RPC planning pilot
Progress since 2011: Mobility

List of examples:

- Multi-state ZEV MOU and action plan
- Smart Growth programs
- H.40 (Ren. Energy Standard w/ Energy Transformation)
- RPC planning pilot
- 10x increase in number of plug-in vehicles
- 5% reduction in gasoline consumption
- 6% increase in transit ridership
- 17% increase in rail ridership
Progress since 2011: Power

List of examples:

✓ H.40 (Ren. Energy Standard w/ Energy Transformation)
  ✓ 55% -> 75% renewable electric overall
  ✓ 1% -> 10% new distributed generation

✓ Standard Offer
✓ Net metering expansion and redesign
✓ VT Energy Generation Siting Commission
  ✓ Solar Siting Task Force this year, too
✓ RPC planning pilot
2015 CEP timeline

- Stakeholder meetings – 6/24 & 6/30
- Regional public forums:
  - July 9 – Woodstock
  - July 16 – Middlebury
  - July 20 – Manchester
  - July 23 – St. Albans
- Initial comment period – through 7/24/15
- Draft CEP – September
- Public hearings, further written comments – Fall 2015
- CEP published – December
Energy in Vermont today

Renewable % today, by service:
- Heat: 20%
- Mobility: 6%
- Power: 45%

Overall: 16% renewable
From 16% to 90% renewable

Why 90% by 2050?

• Goal reached as a result of extensive analysis and public comment in 2011
• Strong desire to become energy secure, ensure stable prices and as much as possible to rely on resources indigenous to Vermont
• Do our part to mitigate climate change by meeting state GHG reduction goals
• Increase local energy $, economic benefit of keeping those dollars in state and in the economy, and reducing dependence on imported energy
• Renewables are only long-term sustainable energy source, and only source we have in Vermont
2030 electric supply
known and unknown
Insights from modeling: Total energy

Total Energy Study showed that 90% by 2050 is both affordable and achievable.
Insights from modeling: Electric demand growth
Possible 2025 goals

• 25% renewable overall, up from 16%
• Heat:
  • 30% renewable, up from 20%
• Mobility
  • 10% renewable, up from 6%
• Power
  • 67% renewable, up from 45%
• 15% reduction in total energy use
Insights from modeling: Overall trajectories

- Overall % RE
- GHG relative to 2015
- Total energy demand
Questions?
Hearing from you!

- Four “stations” around the room
  - Energy efficiency and conservation
  - Energy generation and supply
  - Transportation and land use
  - Public education and engagement

- Use your “dots” to indicate preferred strategies in each area

- Use sticky notes to add or further refine ideas
For more information on the energy plan and to submit comments go to:

www.energyplan.vt.gov