

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:

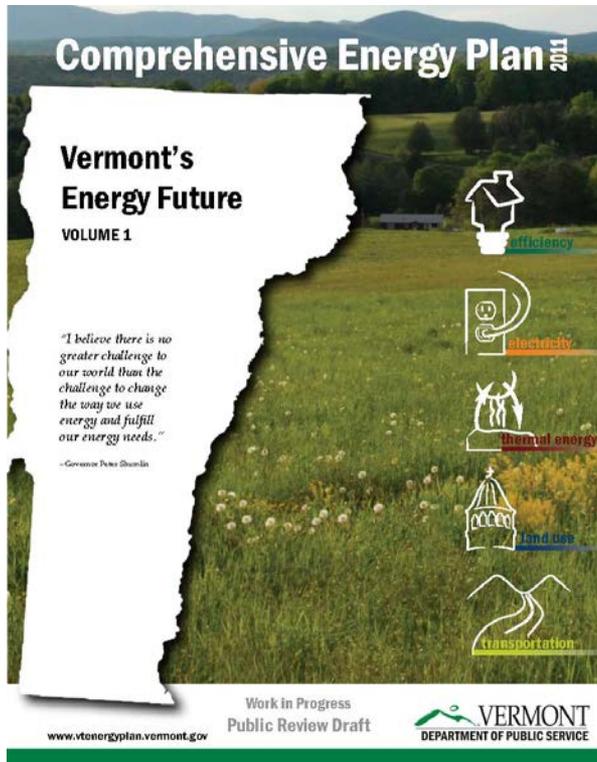
- In a manner that is **adequate, reliable, secure and sustainable**
- Assuring **affordability** and encouraging the state's **economic vitality**
- **Using** energy resources **efficiently** and managing demands cost effectively
- Employing **environmentally sound** practices

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** ★

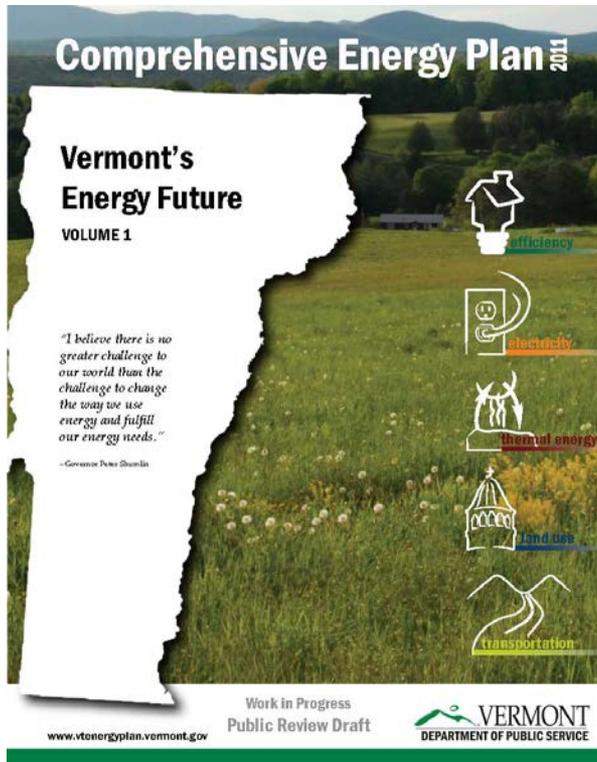
Progress since 2011: Heating



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

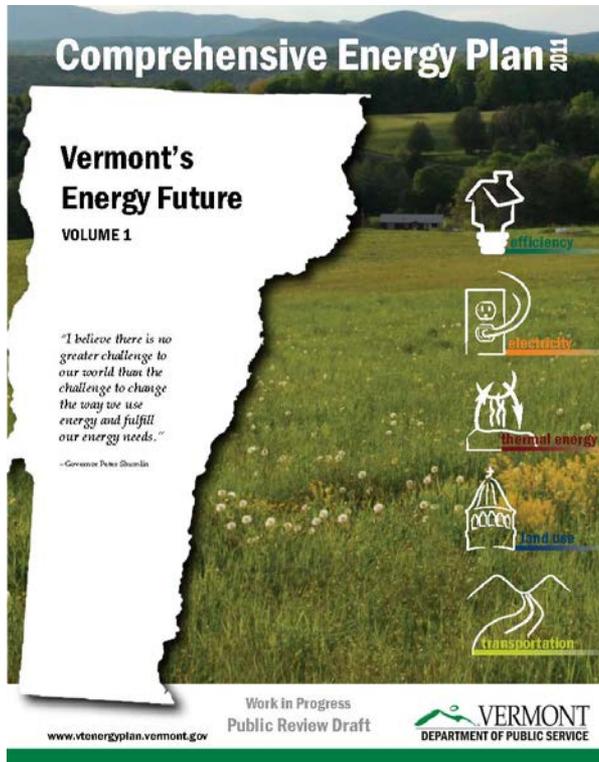


List of examples:

- ✓ 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



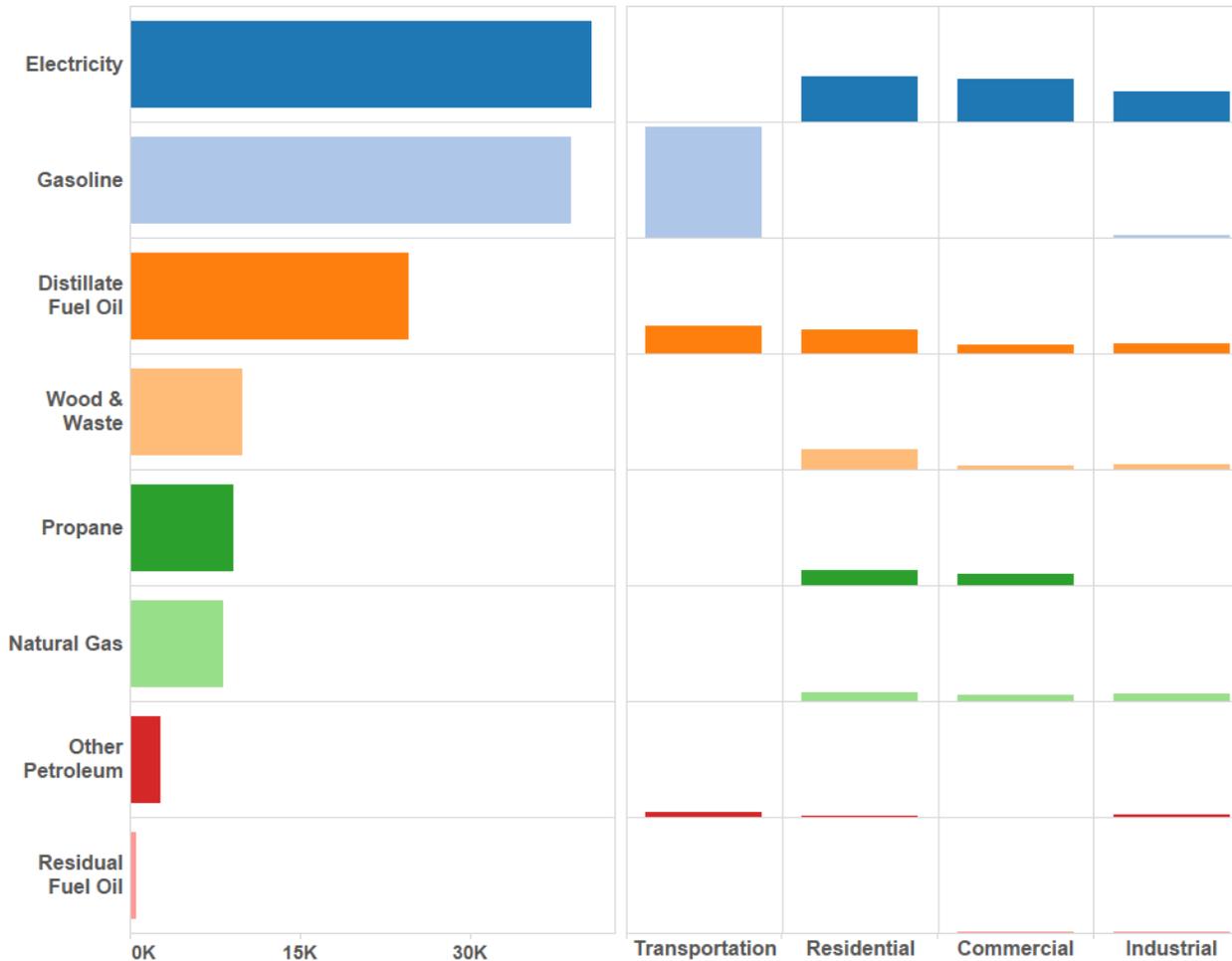
List of examples:

- ✓ **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**

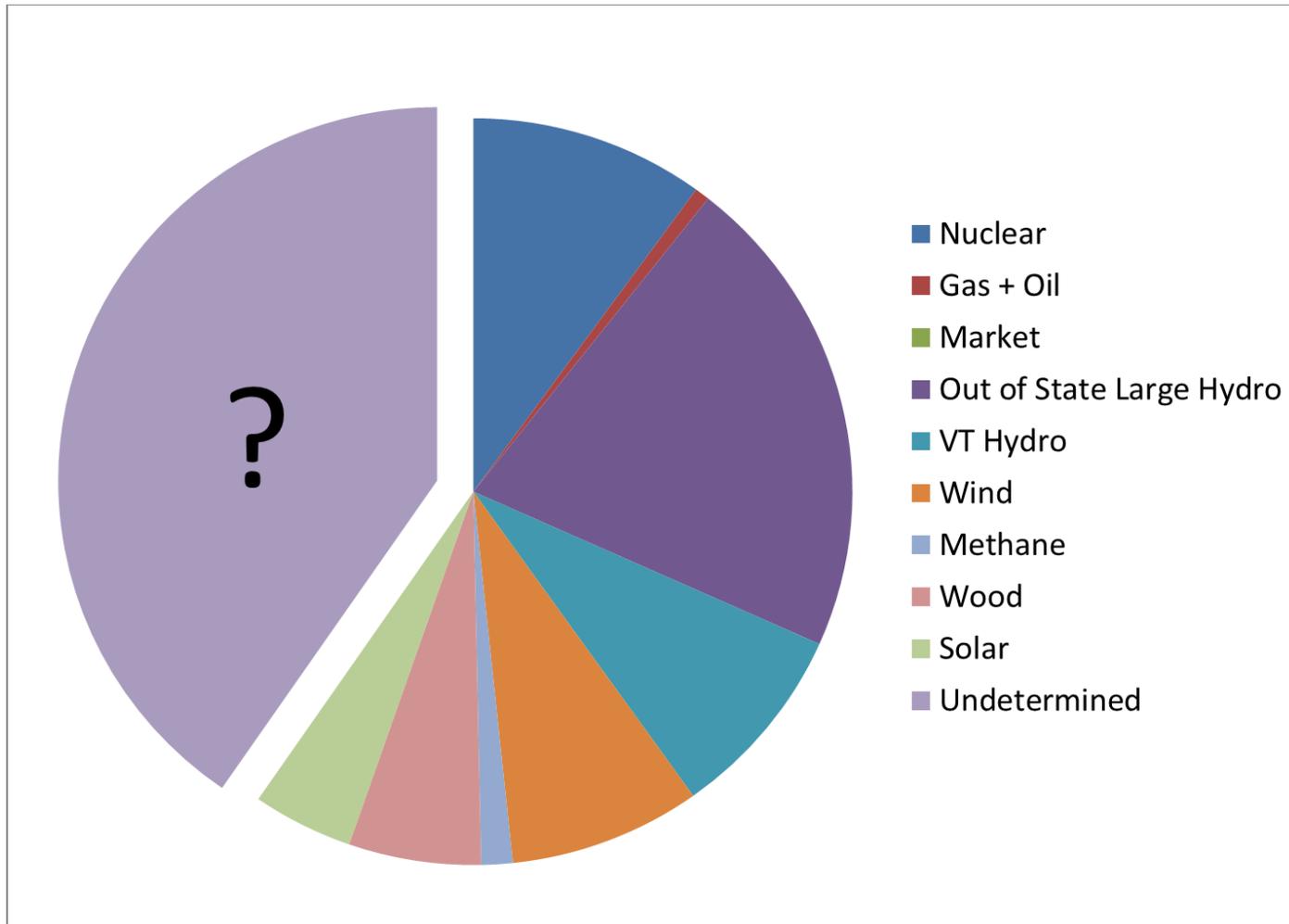
From 16% to 90% renewable

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**

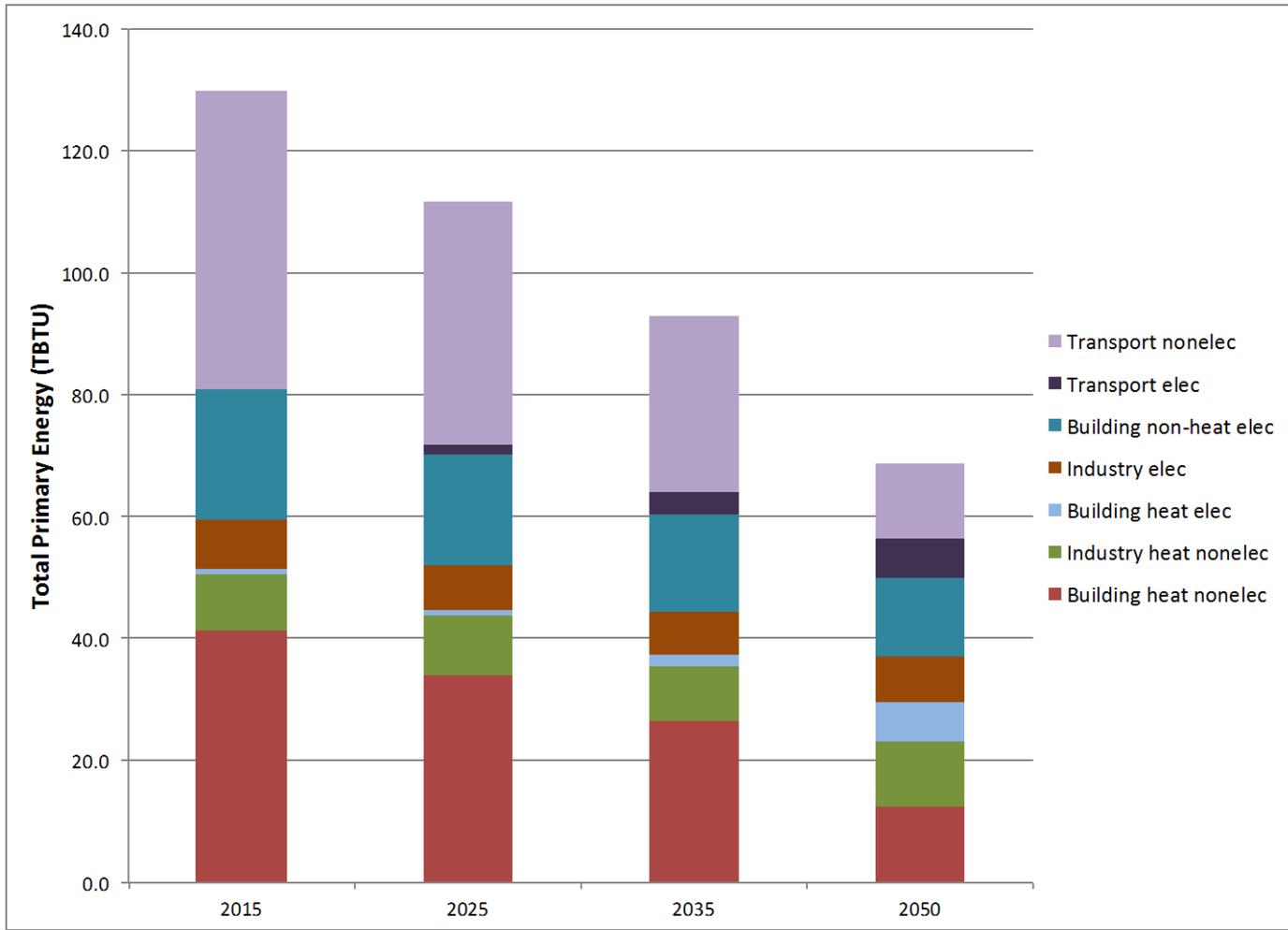
2030 electric supply

known and unknown

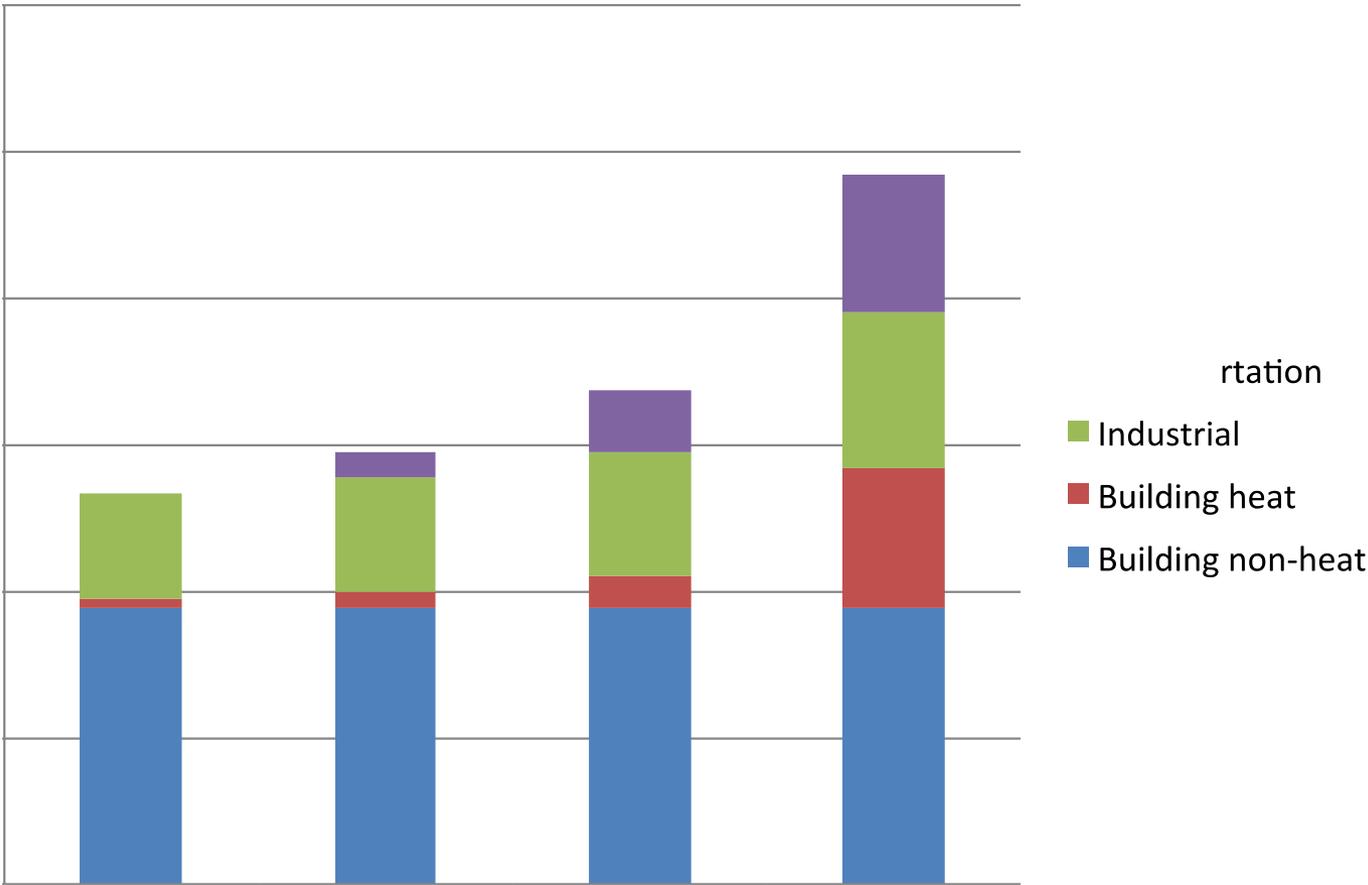


Insights from modeling: Total energy

Total Energy Study showed that 90% by 2050 is both affordable and achievable.



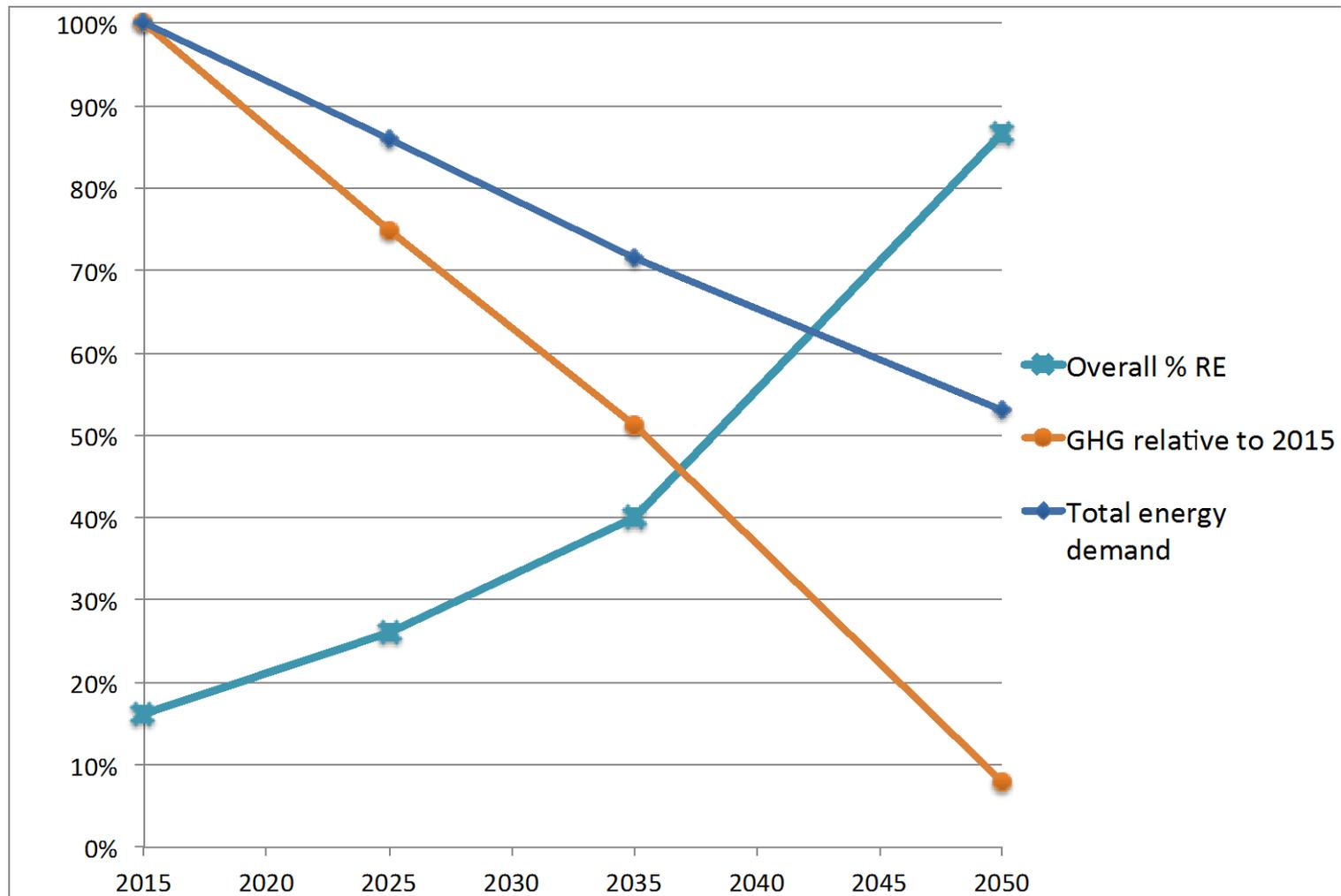
Insights from modeling: Electric demand growth



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



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

