

VERMONT'S ENERGY AND EMISSIONS PICTURE

Getting to 2025 Goals

Jared Duval, Executive Director, Energy Action Network

Leigh Seddon, Board Chair, Energy Action Network



ENERGY ACTION NETWORK

Goals



Take Stock – Energy & Emissions

Where we've been, where we are, and especially...what it will take to meet our goals



Present 10 of the highest impact drivers to 2025



Lay the groundwork for understanding how to bend the curve

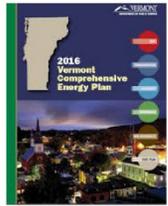
Key Milestones



Paris Accord



emissions by 26-28% from 2005 levels



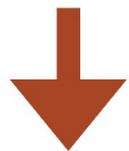
VT Comprehensive Energy Plan



meet 25% of energy via efficiency & renewables (currently 19%)



VT GHG Statute



emissions by 50% by 2028 from 1990 levels

Four Takeaways

1. **The Climate Conversation is an Energy Conversation**

ENERGY =
80%

2. **Paris is Possible
(2025 = CEP & Paris milestones)**

8 YEARS

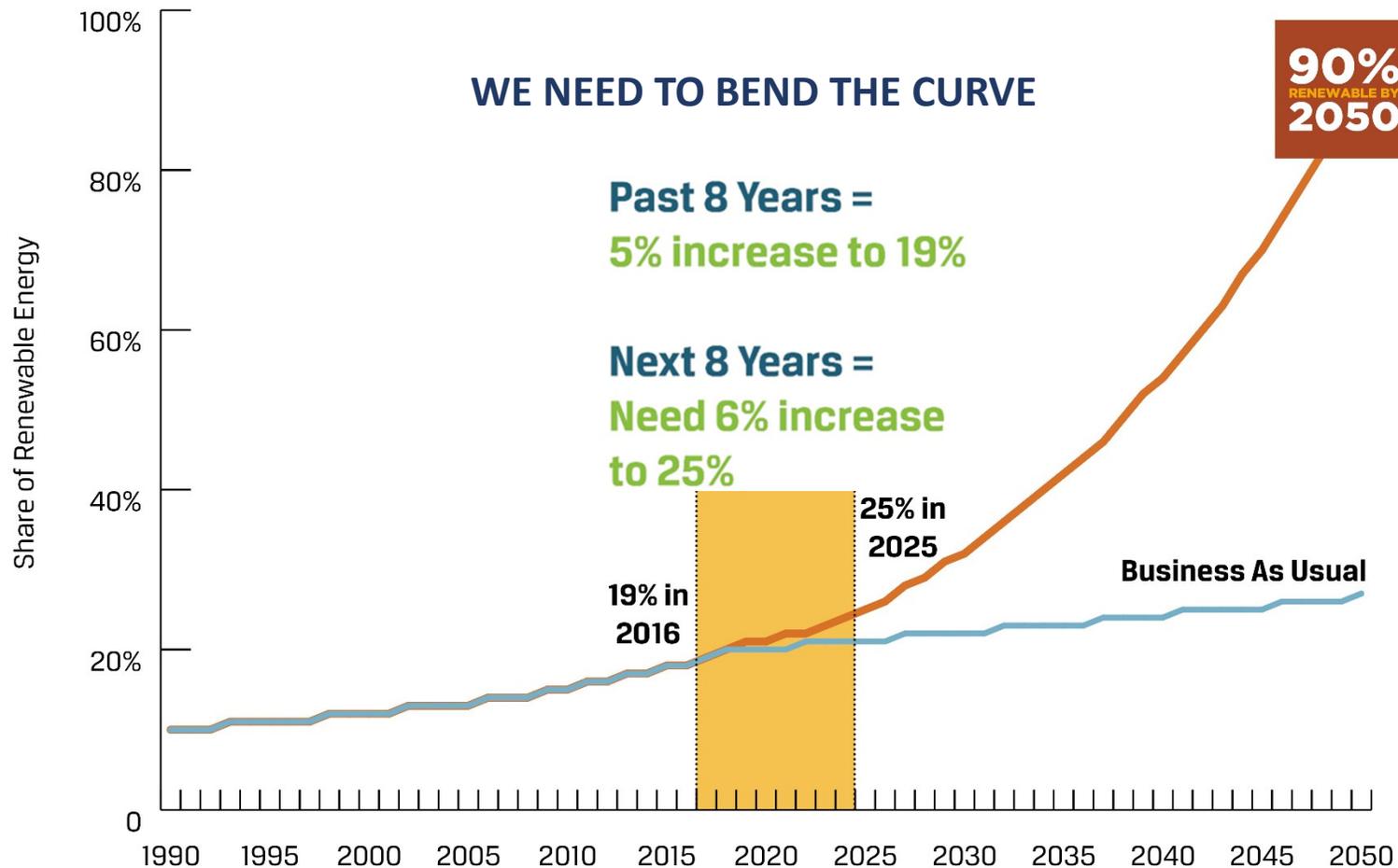
3. **Two Key Drivers are:
Transportation and Heat**



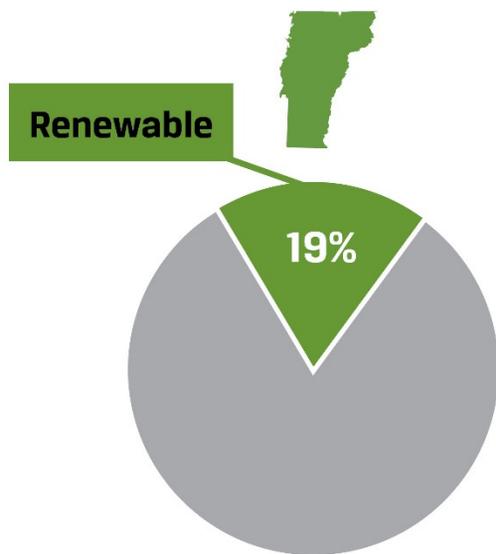
4. **Energy Transition = Jobs, Health,
Affordability & More**

Energy Trajectory 1990-2050

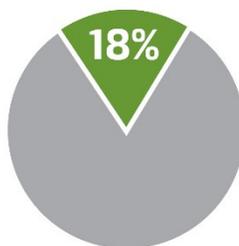
The Long View: Business As Usual Compared to 90% by 2050 Scenario



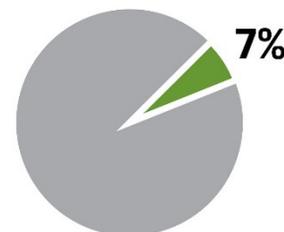
Renewable Energy by Sector



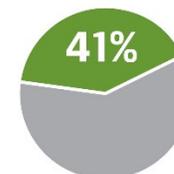
TOTAL
154,651 billion BTU



THERMAL
64,361
billion BTU
42% of Total

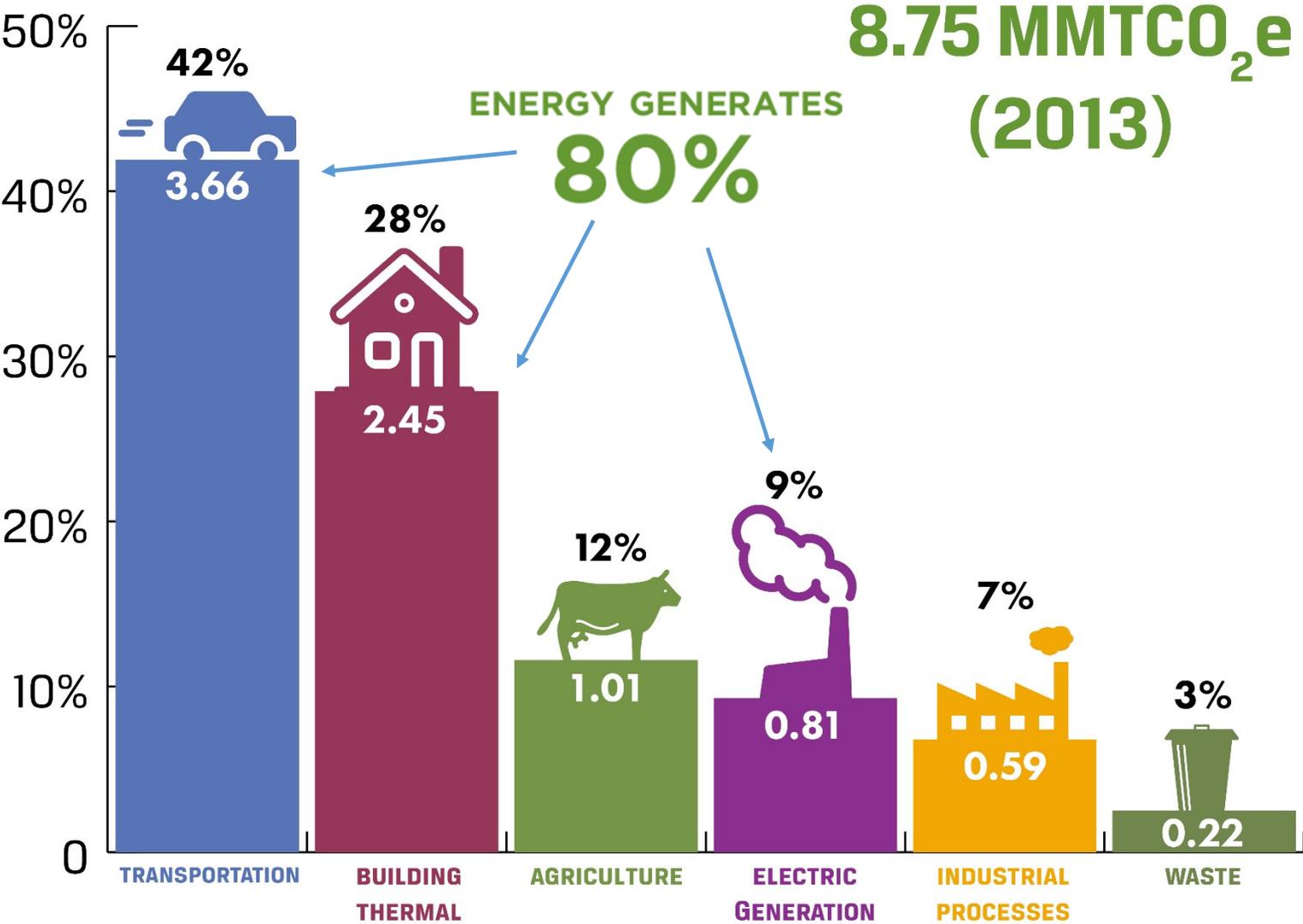


TRANSPORTATION
57,414
billion BTU
37% of Total



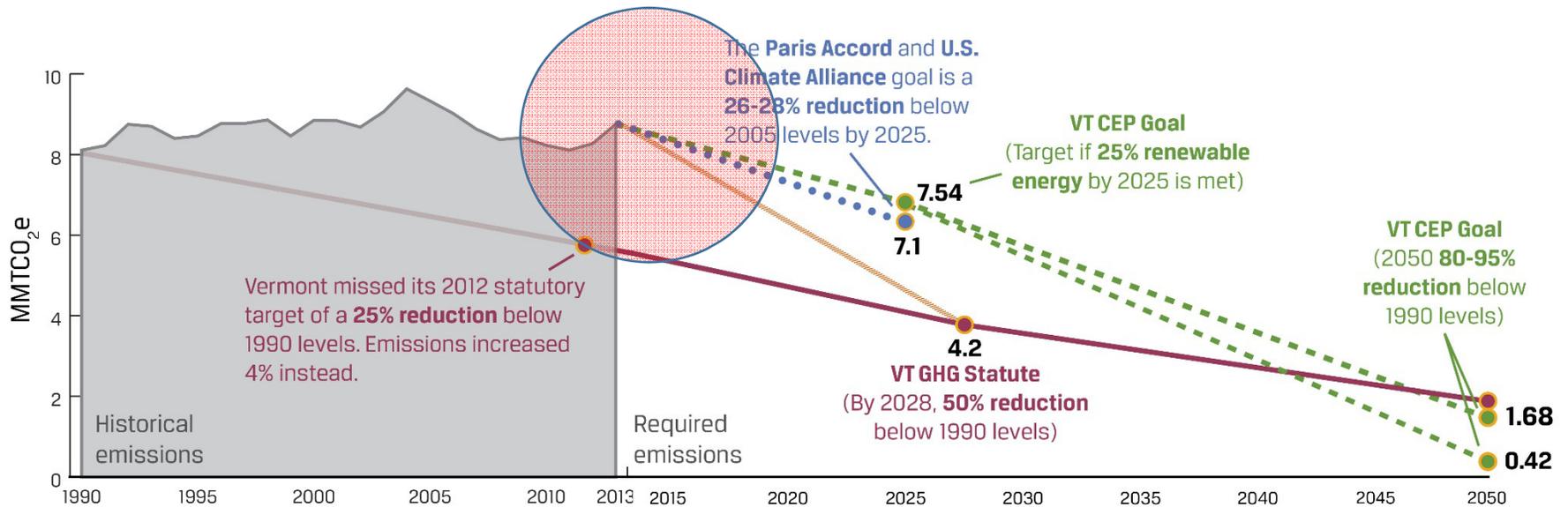
ELECTRICITY
32,876
billion BTU
21% of Total

Vermont Greenhouse Gas Contributors



The Long View: GHG Goals (1990-2050)

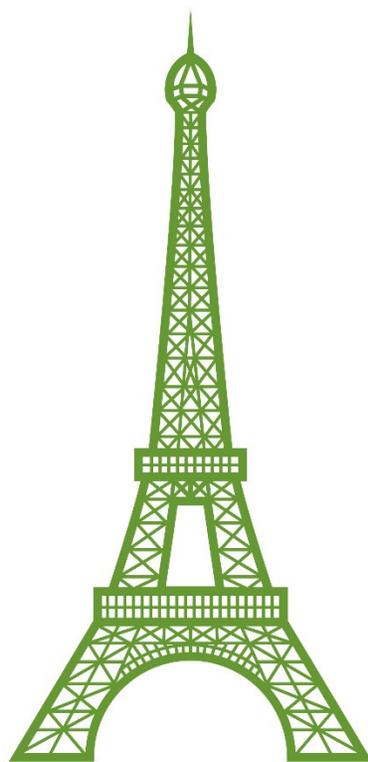
Vermont's GHG Reduction Goals (CEP, Paris, Statute) Compared to Actuals



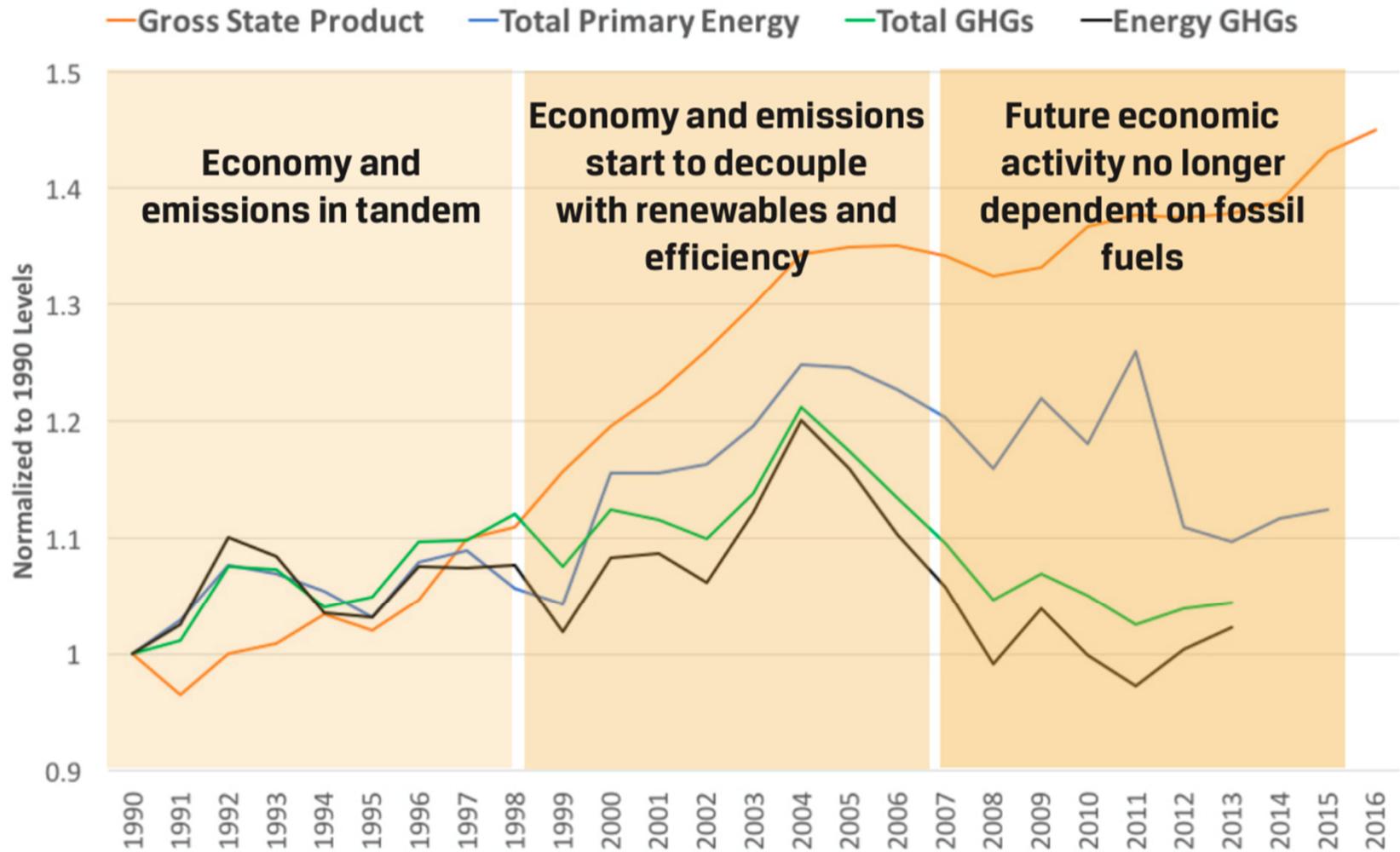
Historical emissions from Vermont Agency of Natural Resources, <http://climatechange.vermont.gov>

Paris is Possible

*Improving our economy while
lowering emissions*

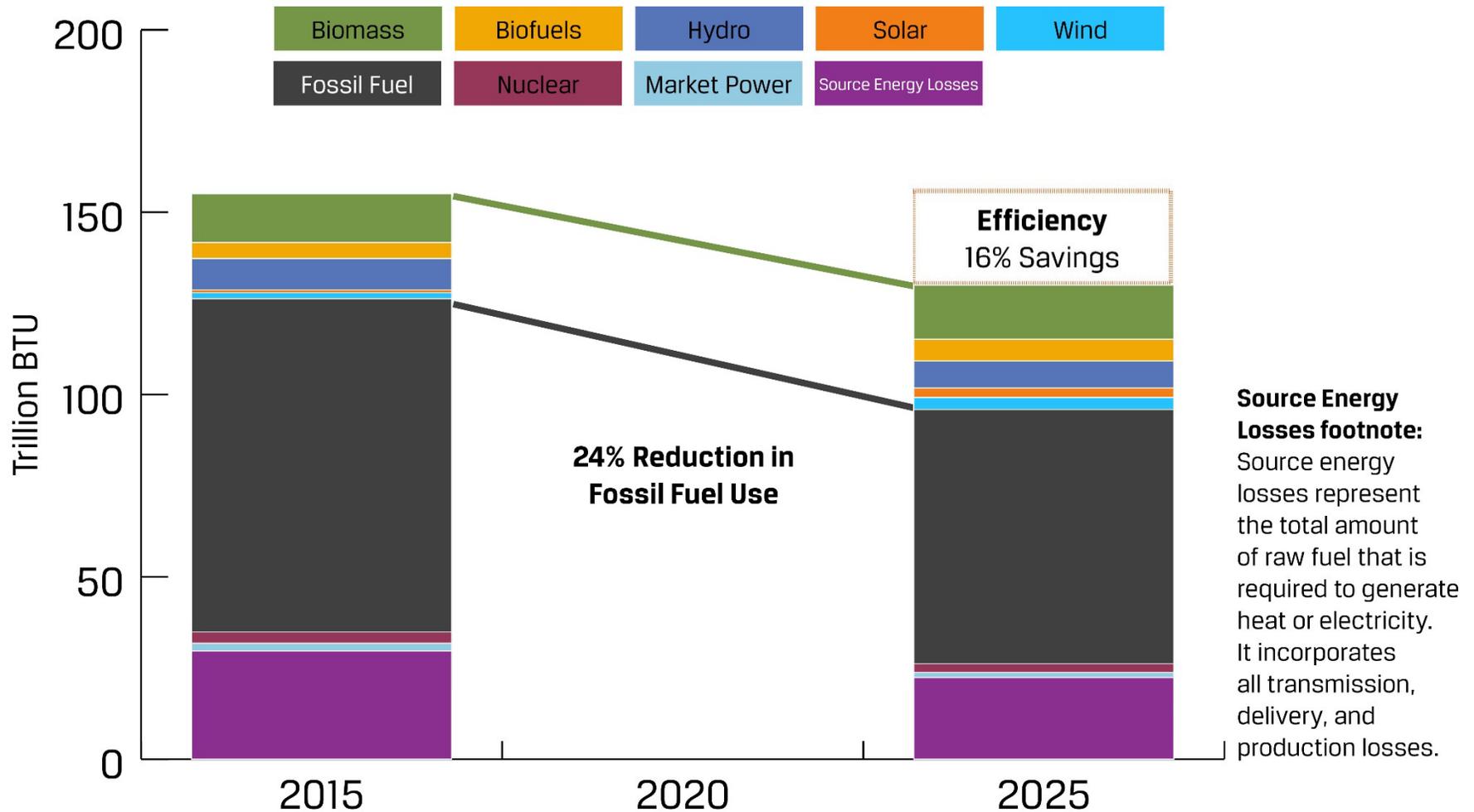


Vermont's Economy Can Become More Vibrant While Reducing GHGs

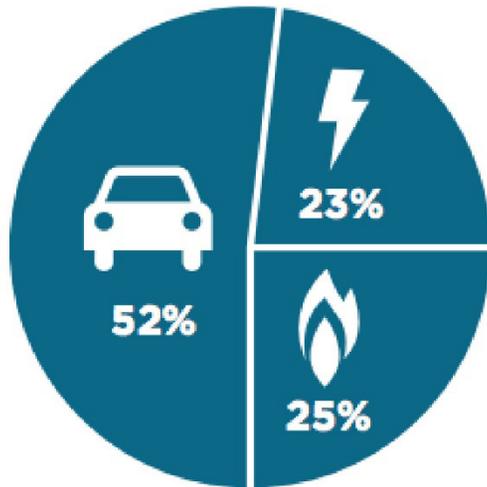


The Role of Efficiency and Renewables

EAN "Paris 2025" Scenario



Reducing the Energy Burden in VT

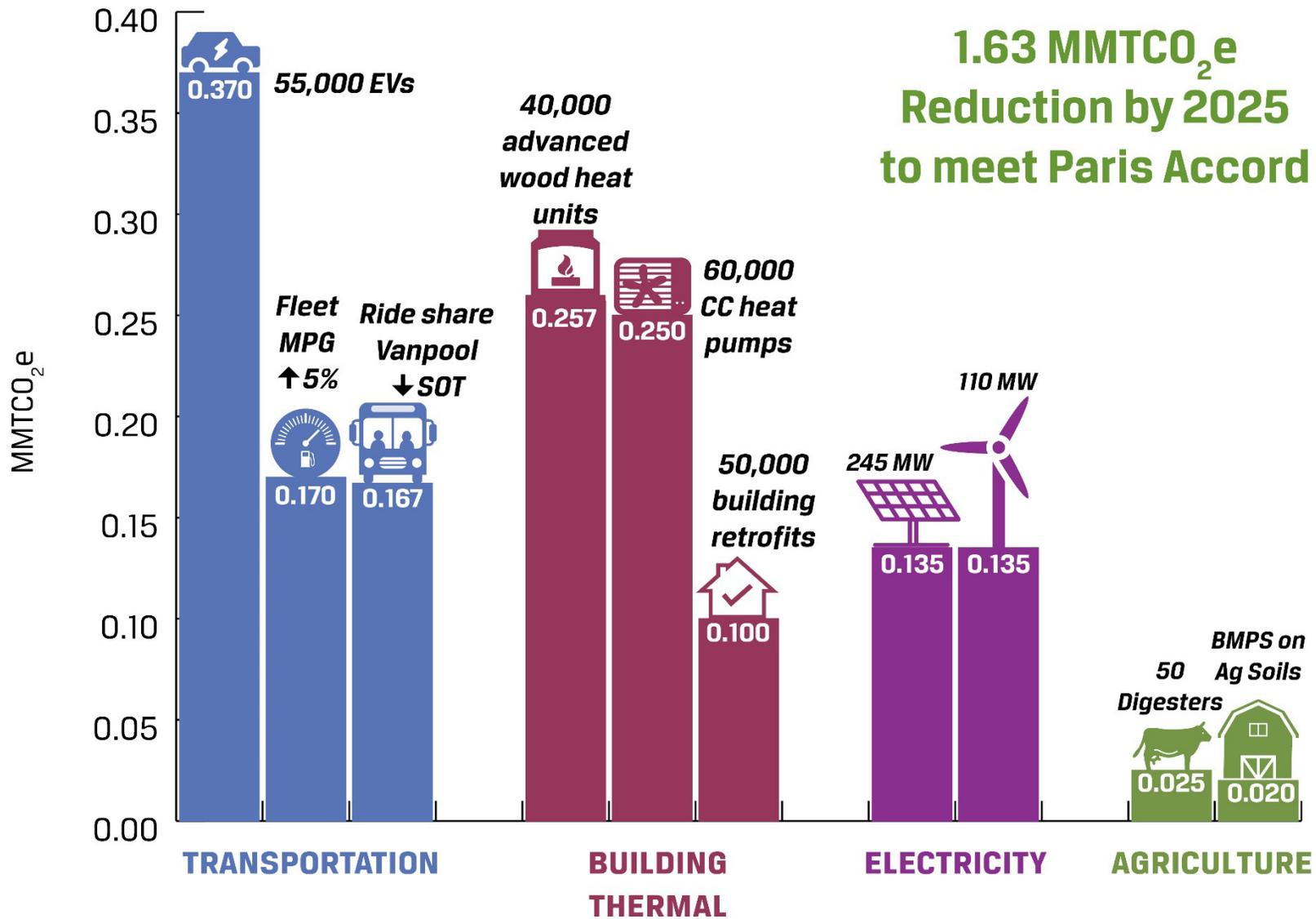


Energy Burden: Low income households spend up to 27% of their household income on electricity and heating. Transportation can make that much higher.

Efficiency = Savings: is the cheapest energy source we have. Every \$1 invested in efficiency is yielding \$2 in savings in Vermont.

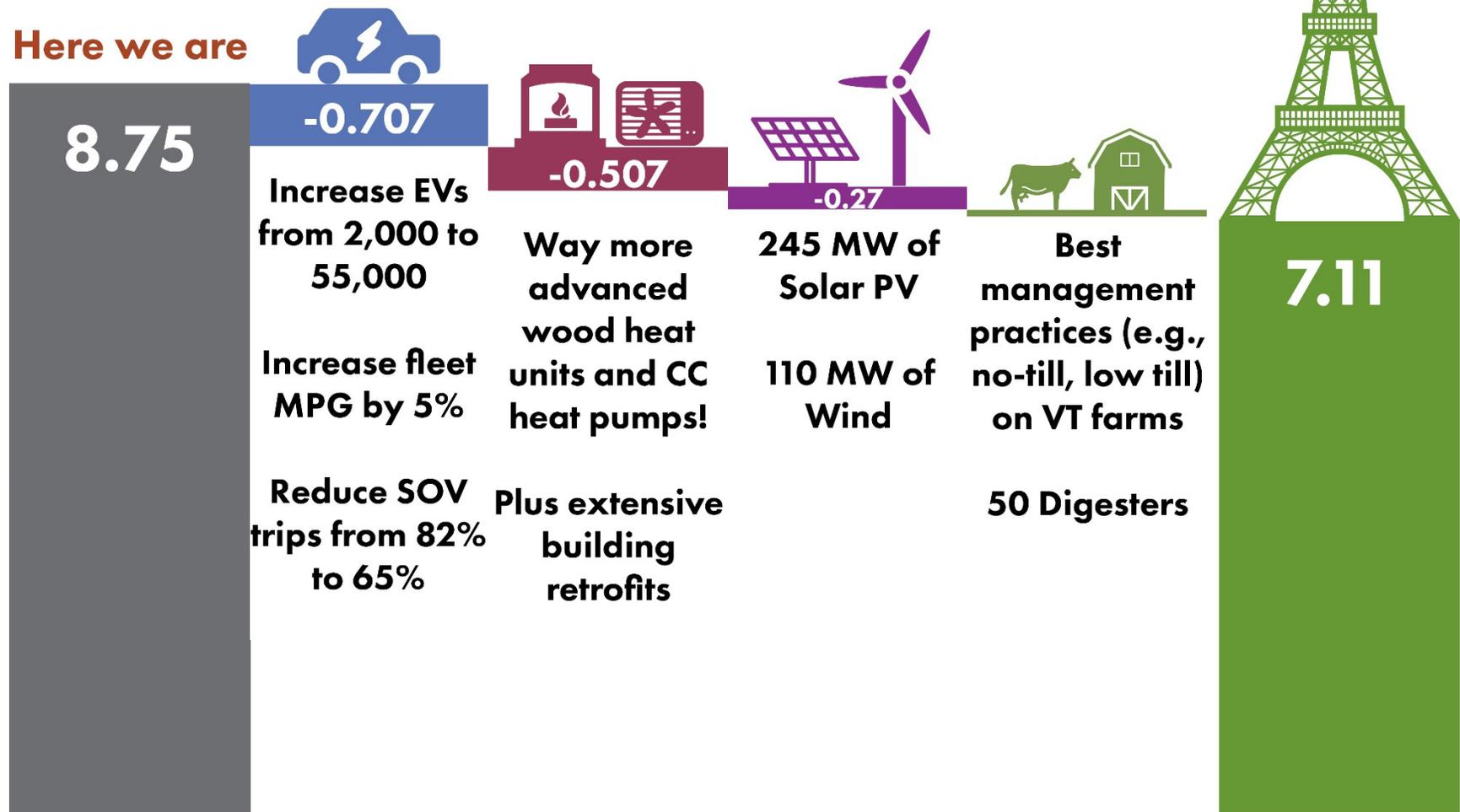
Renewables = Savings: switching to more efficient equipment and transportation that is renewably sourced generates savings *every year*.

10 of Highest Impact Drivers for Reaching 2025 Goals



Need ALL Drivers to Get to Paris

Here we are



Policy and Leadership

The role of State policy is to help our markets work by providing:

Accurate Information

Access to Capital

Accountable Price Signals

This will build a sustainable economy that creates jobs, keeps energy affordable, and protects our environment