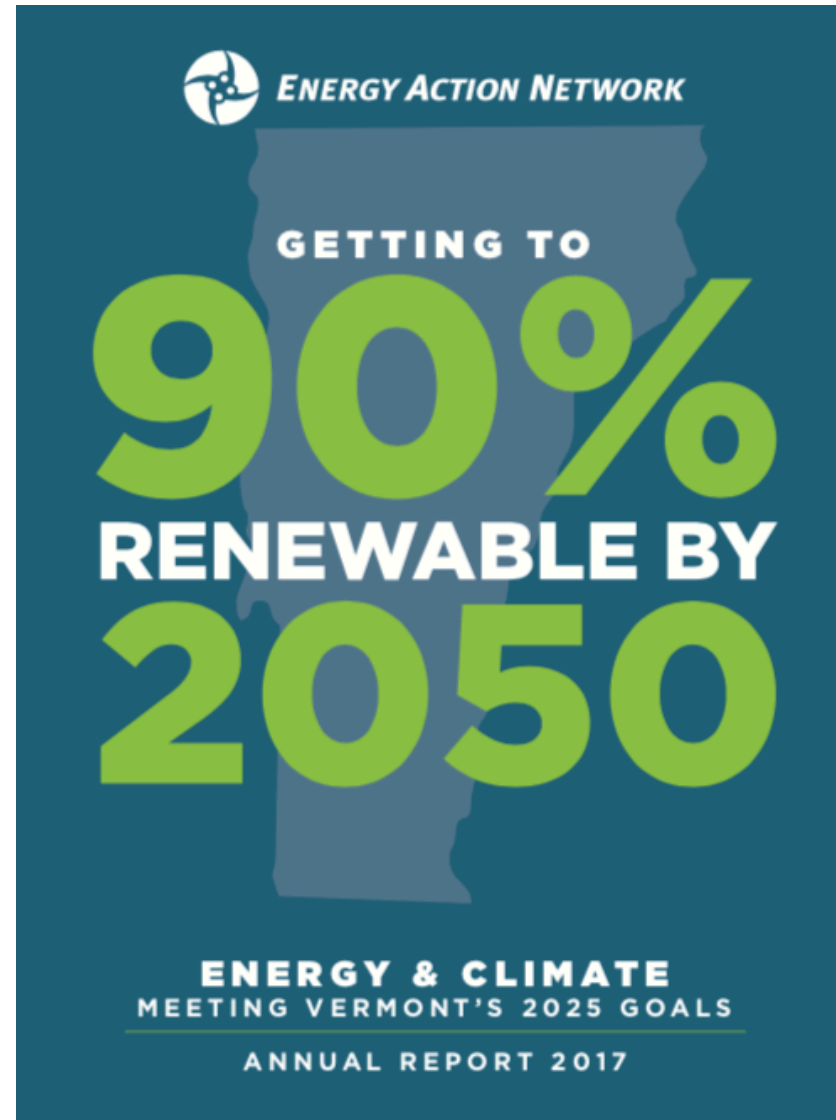


Transportation's Importance for Meeting Vermont's Energy, Emissions, and Economic Goals

Senate Transportation Committee, Vermont Legislature
February 1, 2018

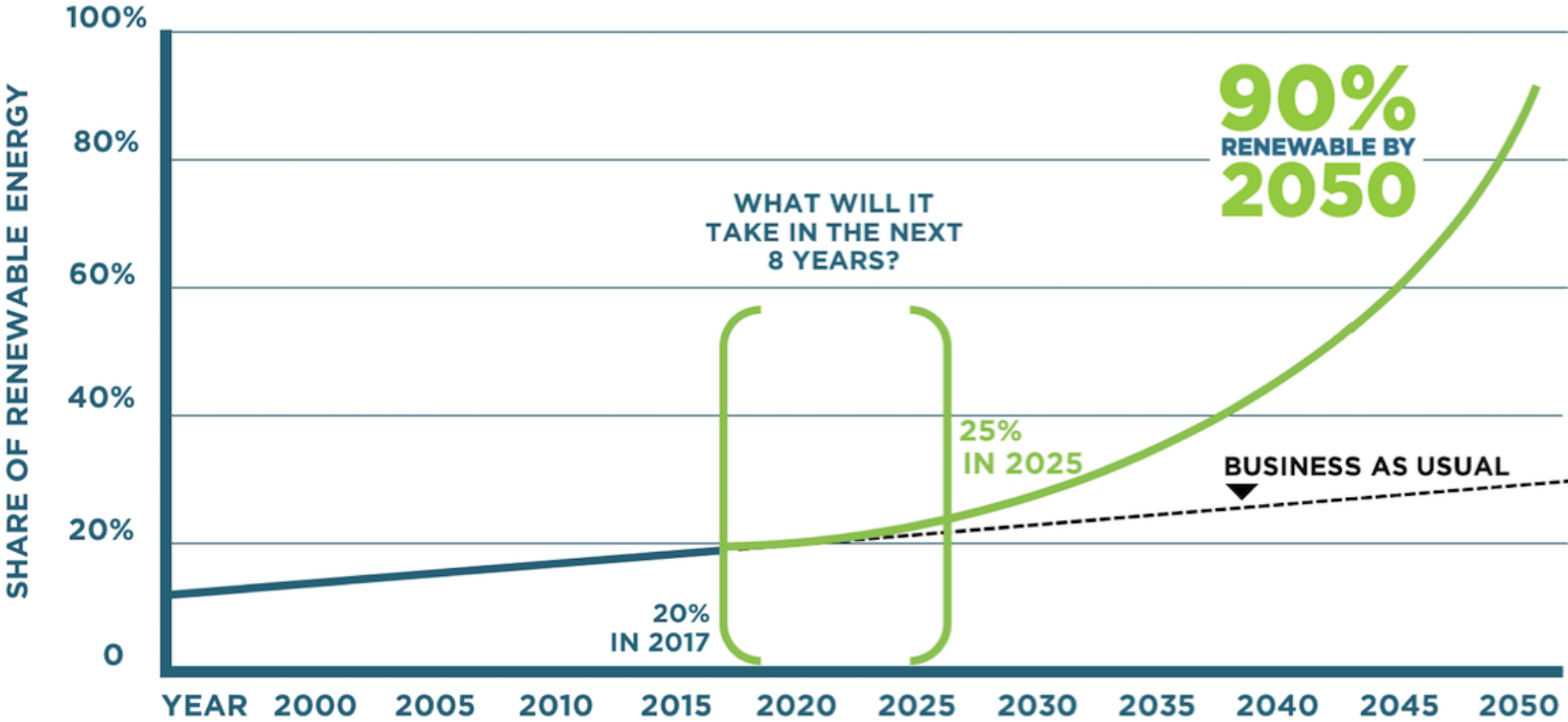


EAN: A Diverse Network Committed to Vermont's Goals



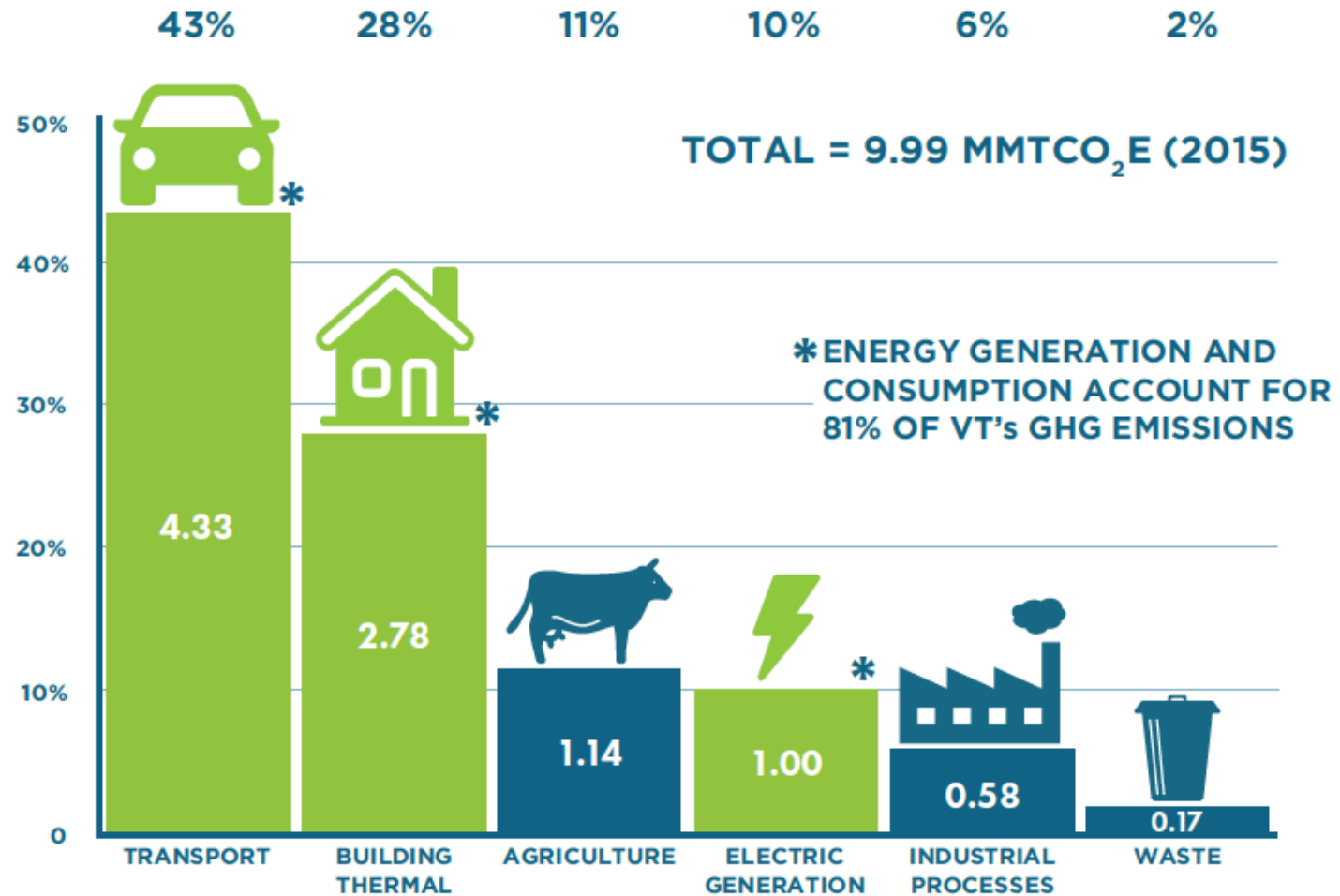
We've Made Real Progress but the Climb is About to Get A Lot Steeper...

BUSINESS AS USUAL WILL NOT GET US TO 90% BY 2050 (OR 25% BY 2025)



The Energy & Emissions Story

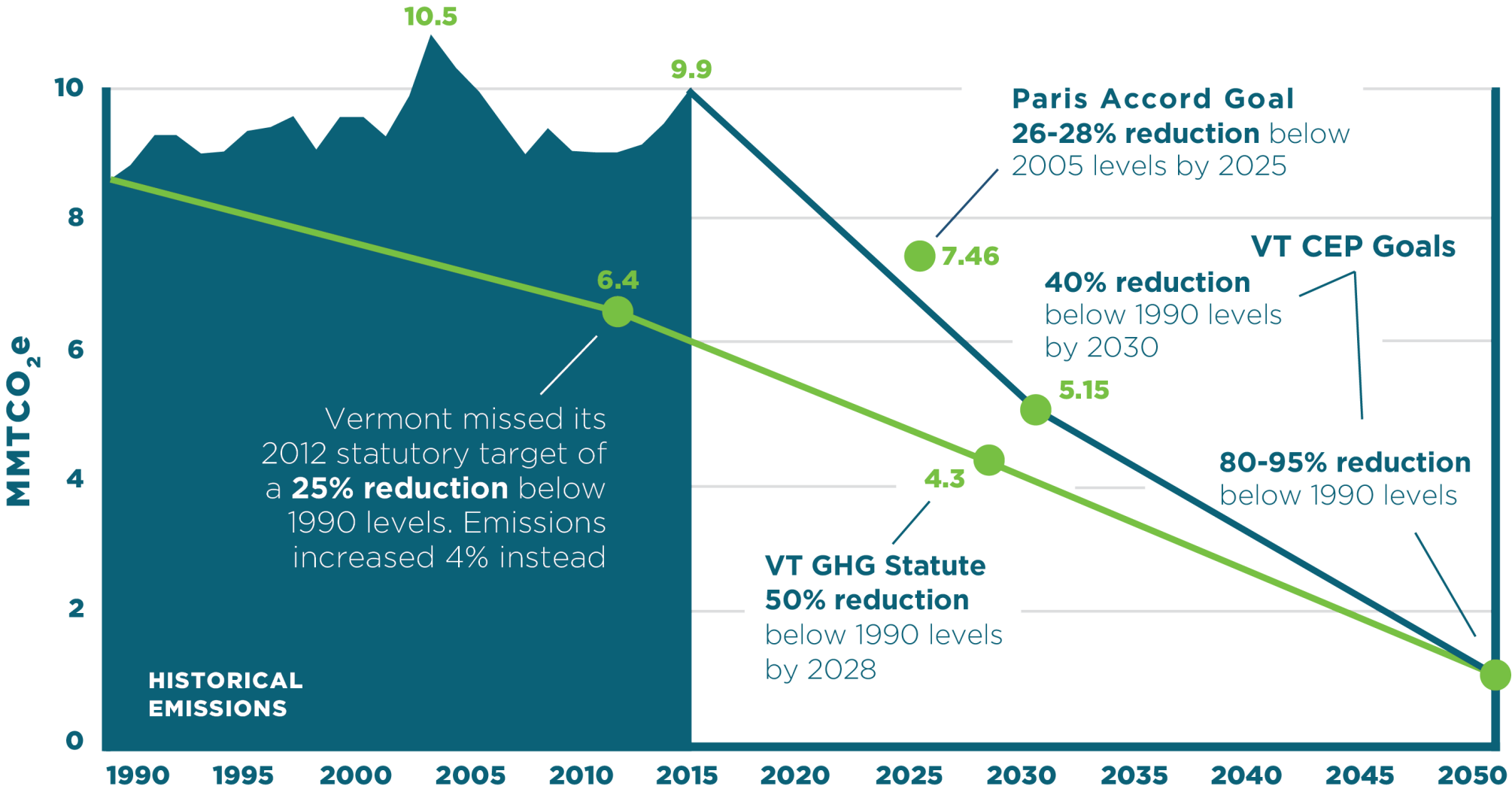
THE CLIMATE CONVERSATION IS AN ENERGY CONVERSATION



SOURCE: HISTORICAL AND CURRENT EMISSIONS FROM VERMONT AGENCY OF NATURAL RESOURCES: CLIMATECHANGE.VERMONT.GOV



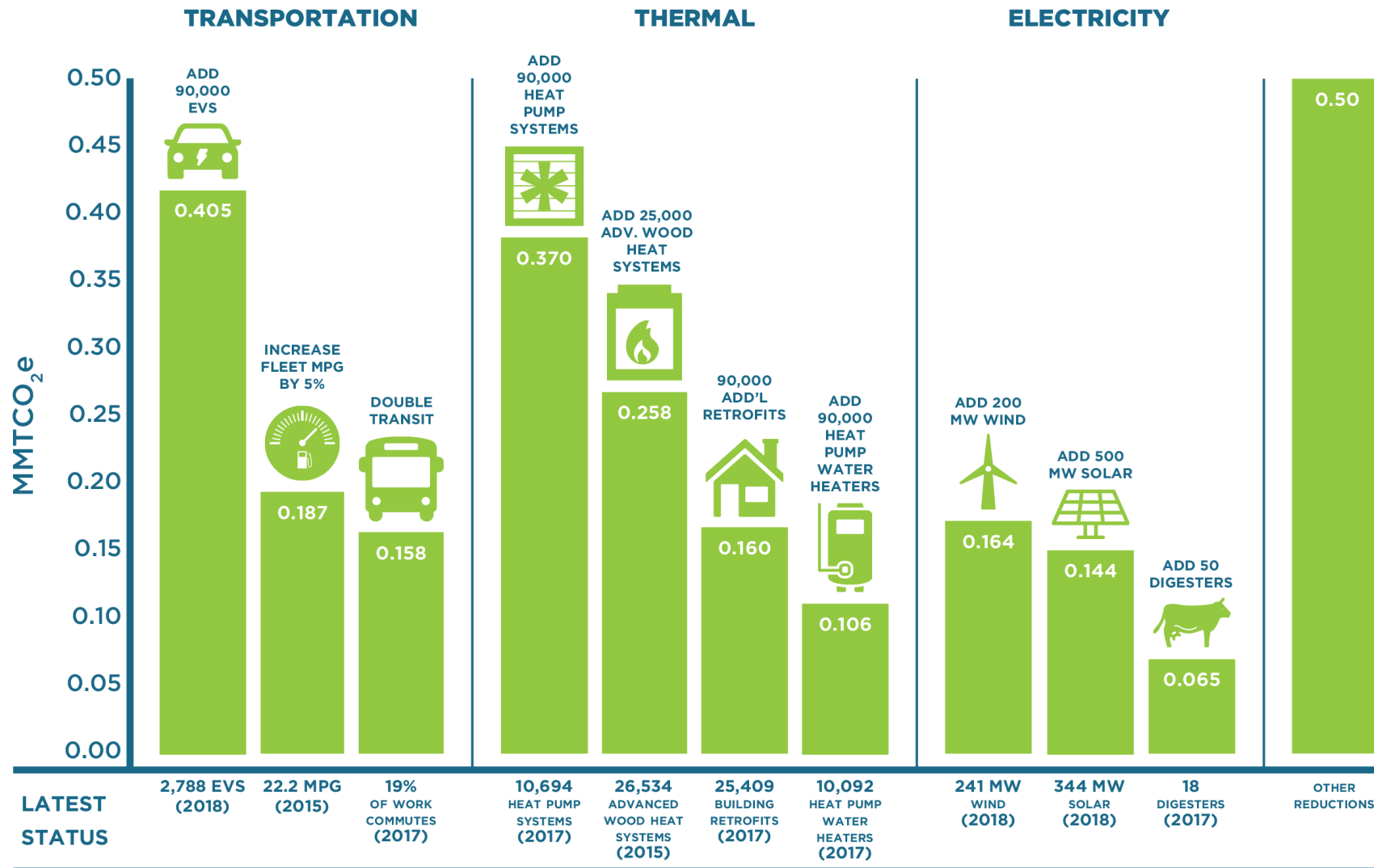
VT's Greenhouse Gas Emissions are Increasing



HISTORICAL EMISSIONS FROM VERMONT AGENCY OF NATURAL RESOURCES: CLIMATECHANGE.VERMONT.GOV

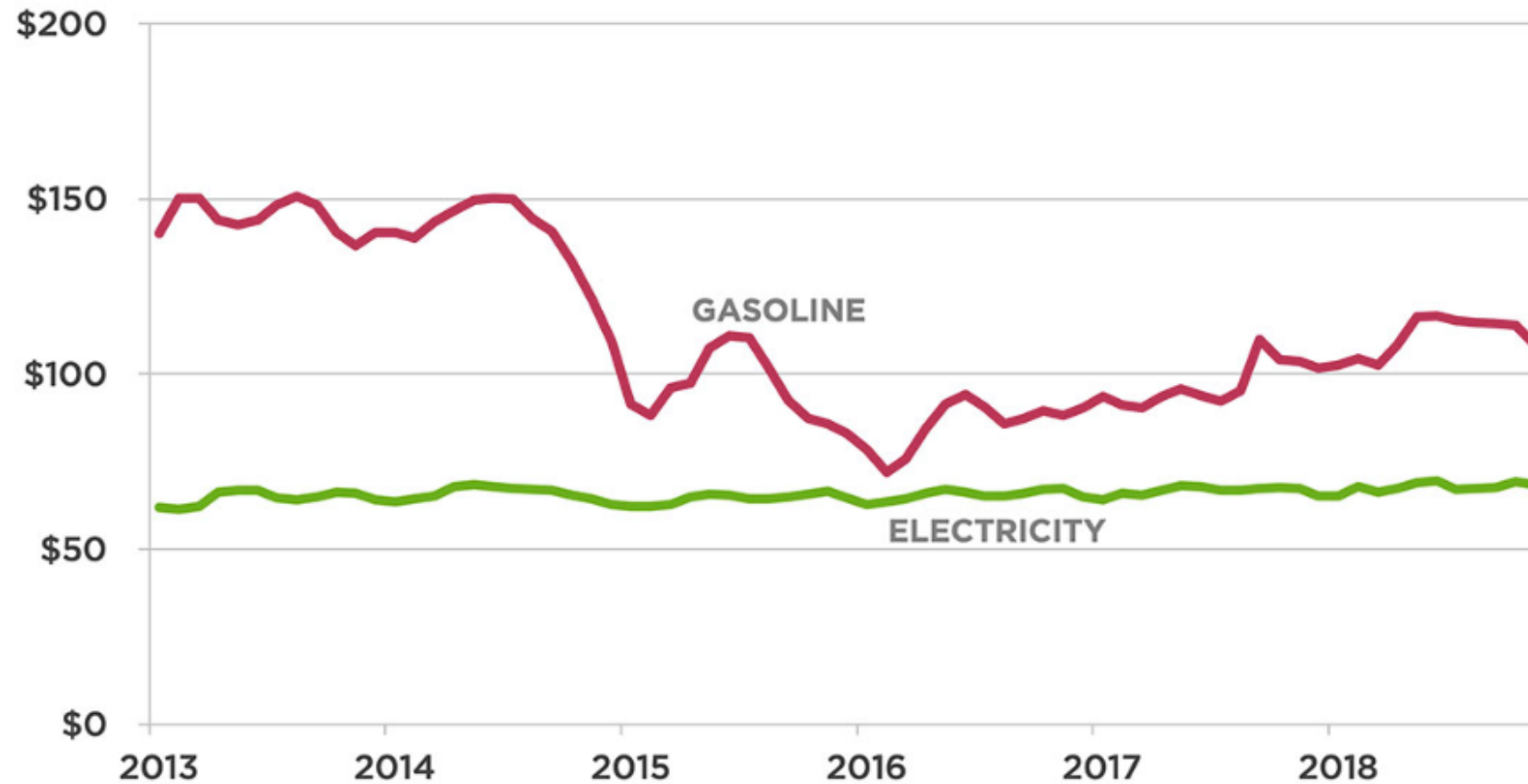


Pathway to 2025: Top Ten Drivers



Vermonters Stand To Save

MONTHLY TRANSPORTATION ENERGY EXPENSES



Source: US Energy Information Administration and VEIC
Assumptions: 25 mpg gasoline vehicle; 3 mile per kWh EV; 1,000 miles per month



Gas vs. Electric: A Comparison

GAS POWERED CAR

\$2.60/gallon

Regular Maintenance Costs (Oil Changes, Transmission Fluid, etc)

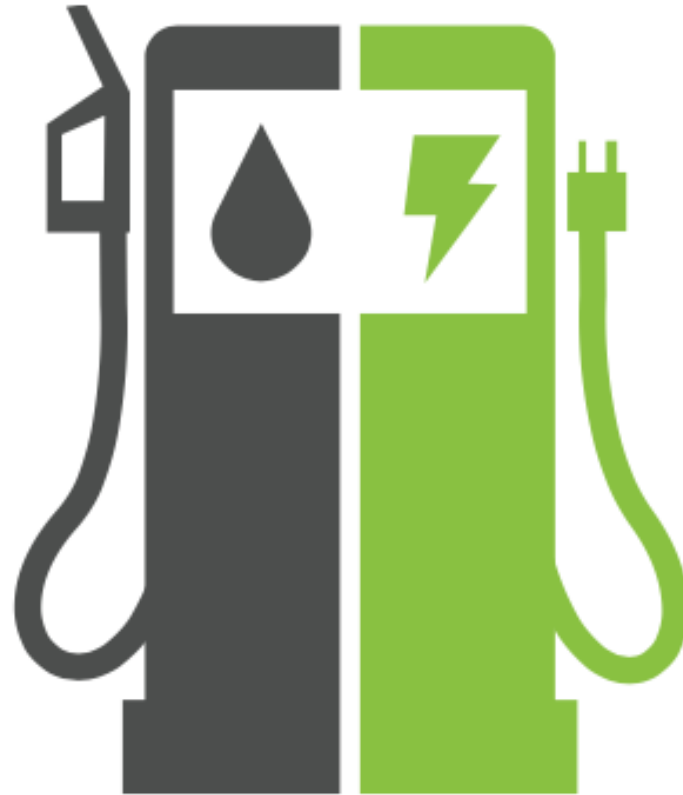
Drive to Fill Up

Air Pollution

High Carbon Emissions

Fuel Dollars - 78% leave Vermont

Gas Price Volatility



ELECTRIC VEHICLE (EV)

\$1.50/gallon equivalent¹³

Low Maintenance Costs

Fill Up at Home

No Tailpipe Emissions

No or Low Carbon Emissions

Renewably Sourced (and if from rooftop solar, most \$ stays in Vermont)

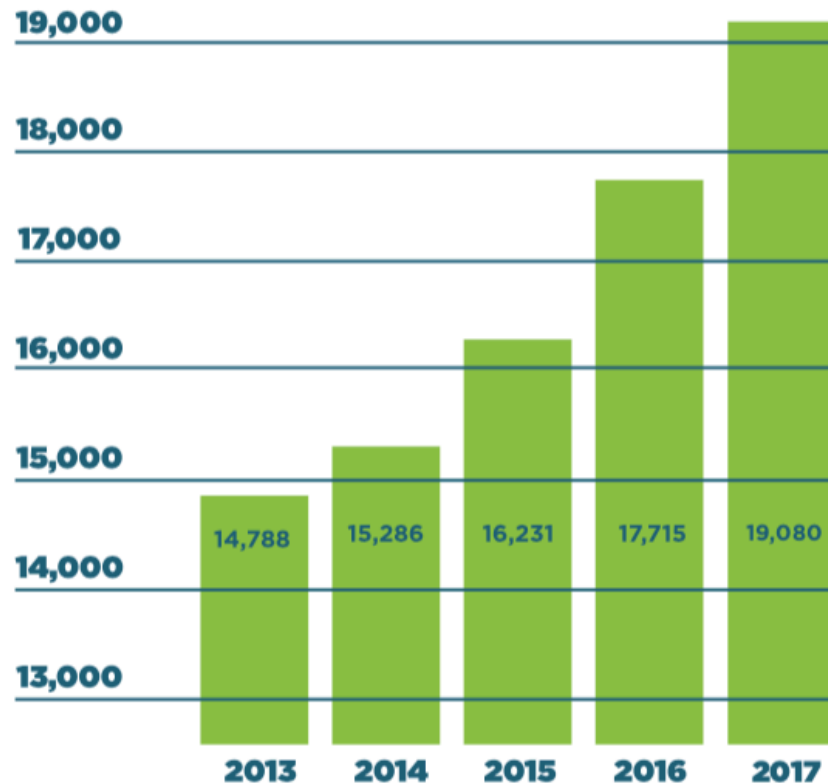
Electricity Price Stability



Vermont Stands to Grow

VERMONT CLEAN ENERGY JOBS²¹

Up 29% since 2013



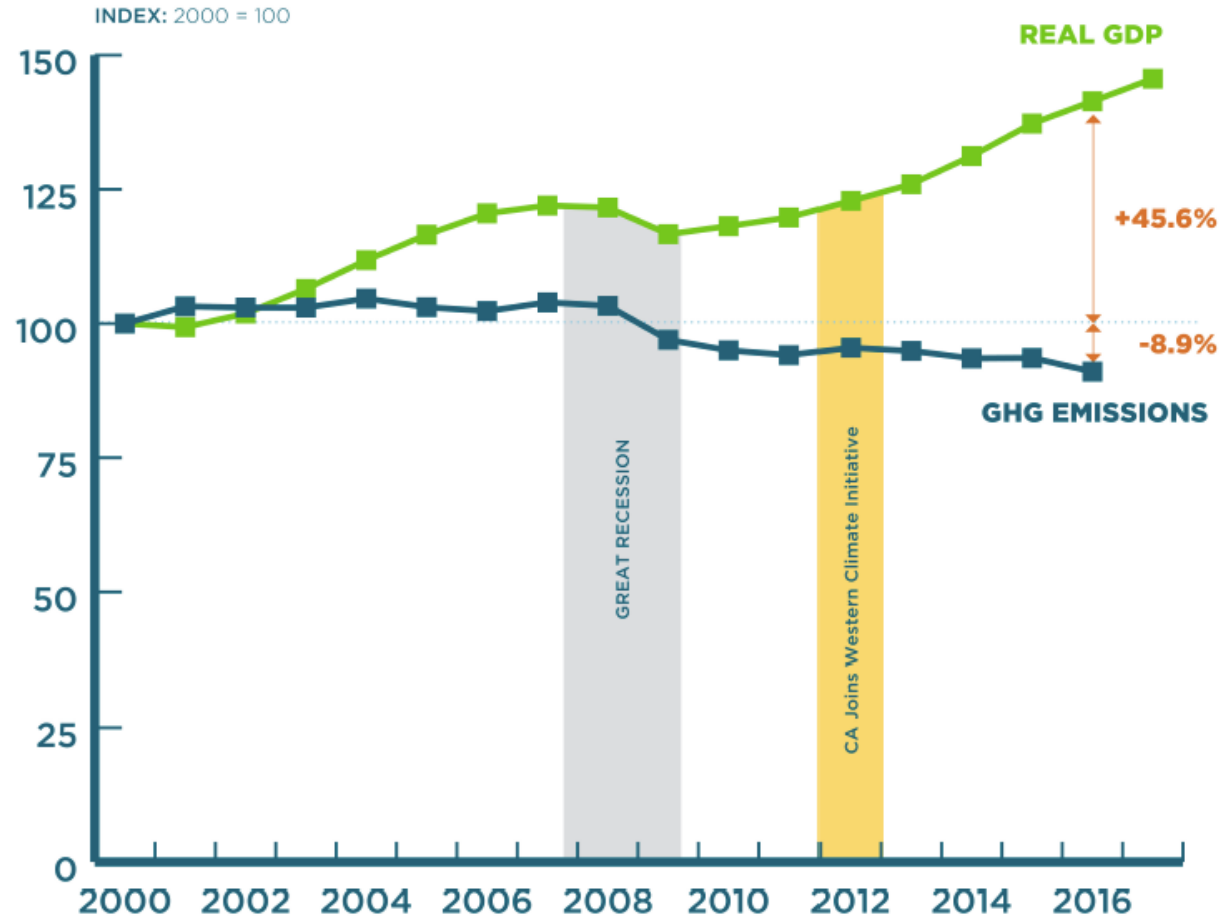
**78¢ OF EVERY \$1
SPENT ON FOSSIL
FUEL LEAVES
VERMONT... NEARLY
\$1.5 BILLION PER
YEAR²²**

...but \$\$ spent on local renewables
creates more jobs for Vermont



One U.S. State Has Capped Carbon Economy-Wide...

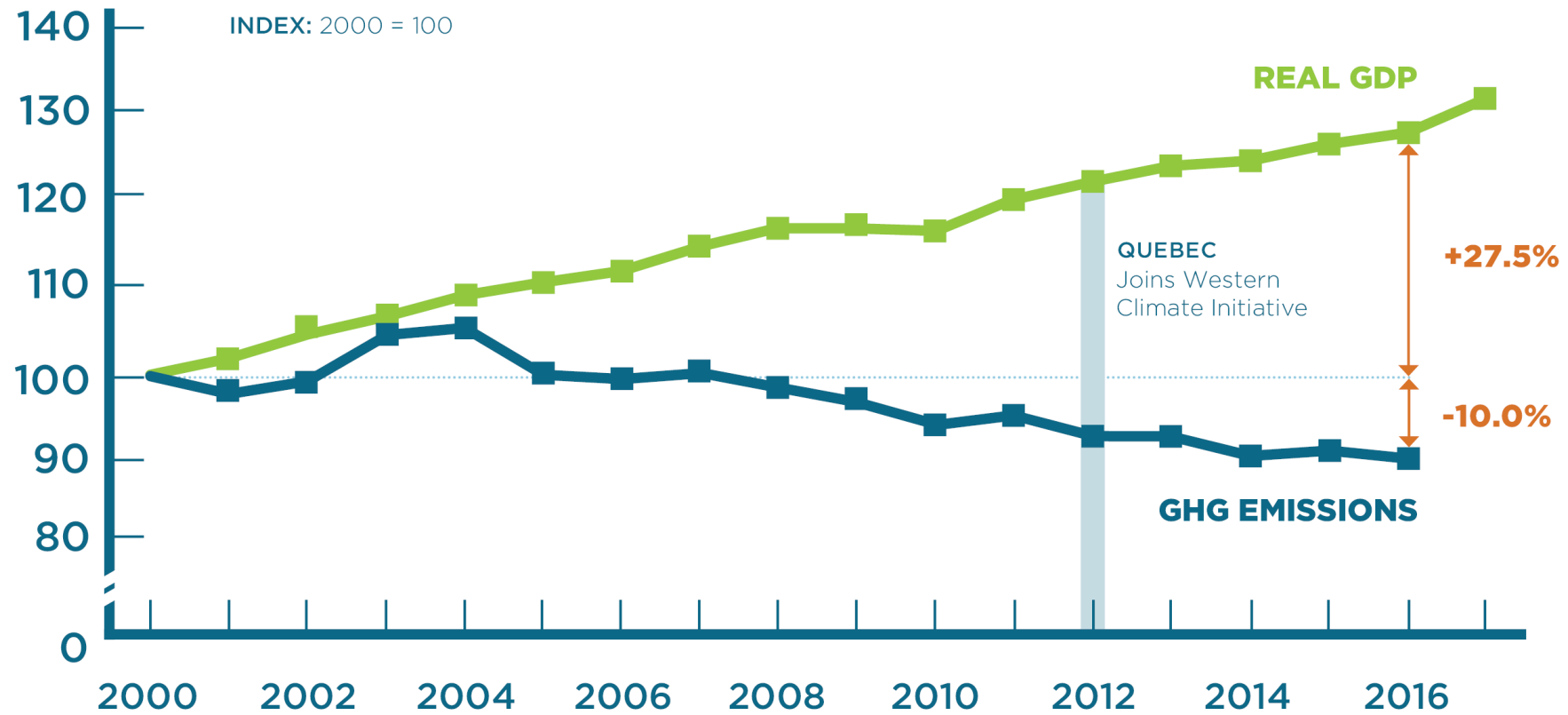
DECOUPLING: CALIFORNIA'S REAL GDP AND GHG EMISSIONS, 2000-2017



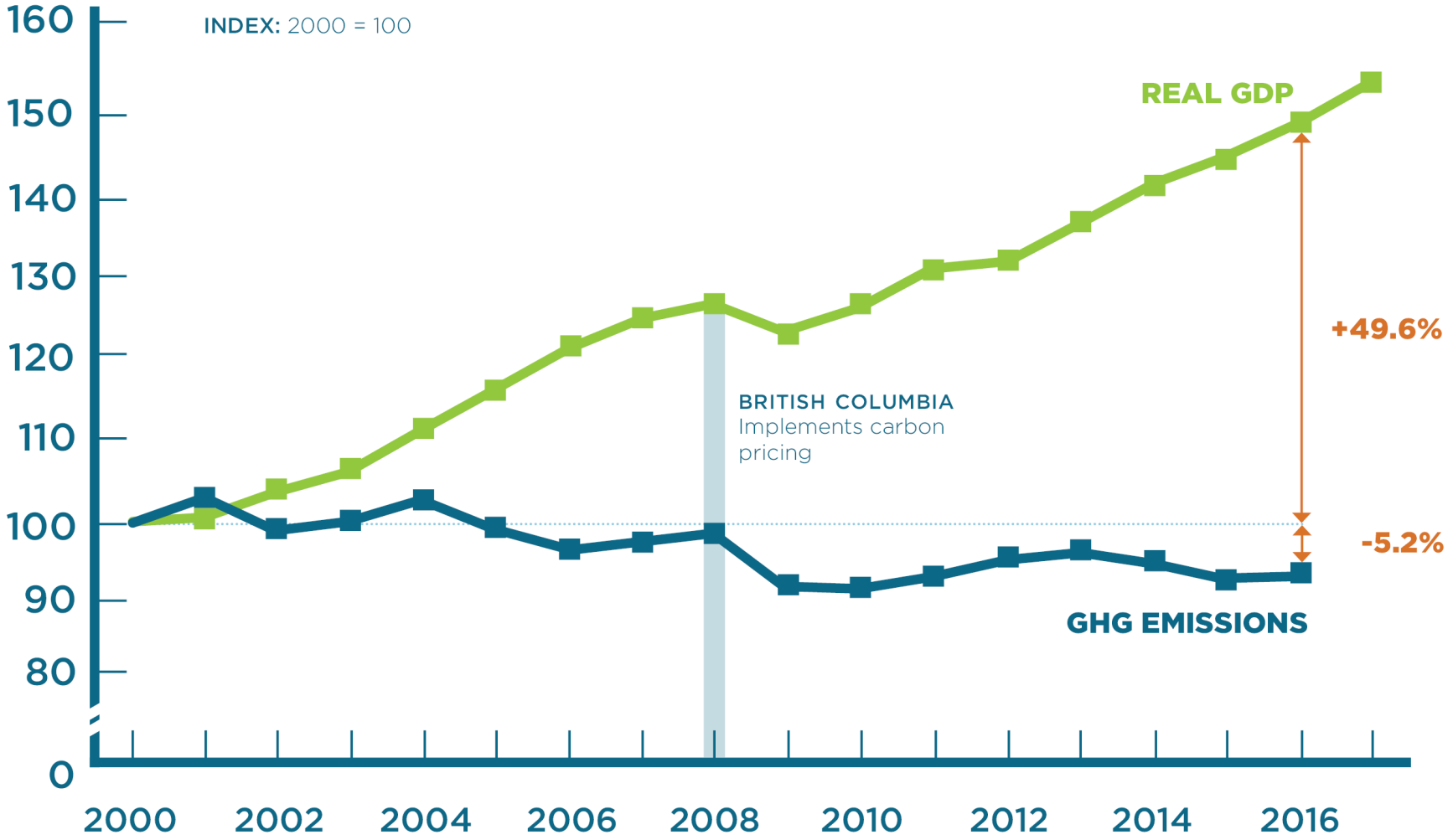
EMISSIONS: WWW.ARB.CA.GOV/CC/INVENTORY/DATA/GRAPH/BAR/BAR_2016_BY_GHG.PNG
GDP: [HTTPS://FRED.STLOUISFED.ORG/SERIES/CARGSP](https://FRED.STLOUISFED.ORG/SERIES/CARGSP)



...As Have Our Neighbors to the North in Quebec

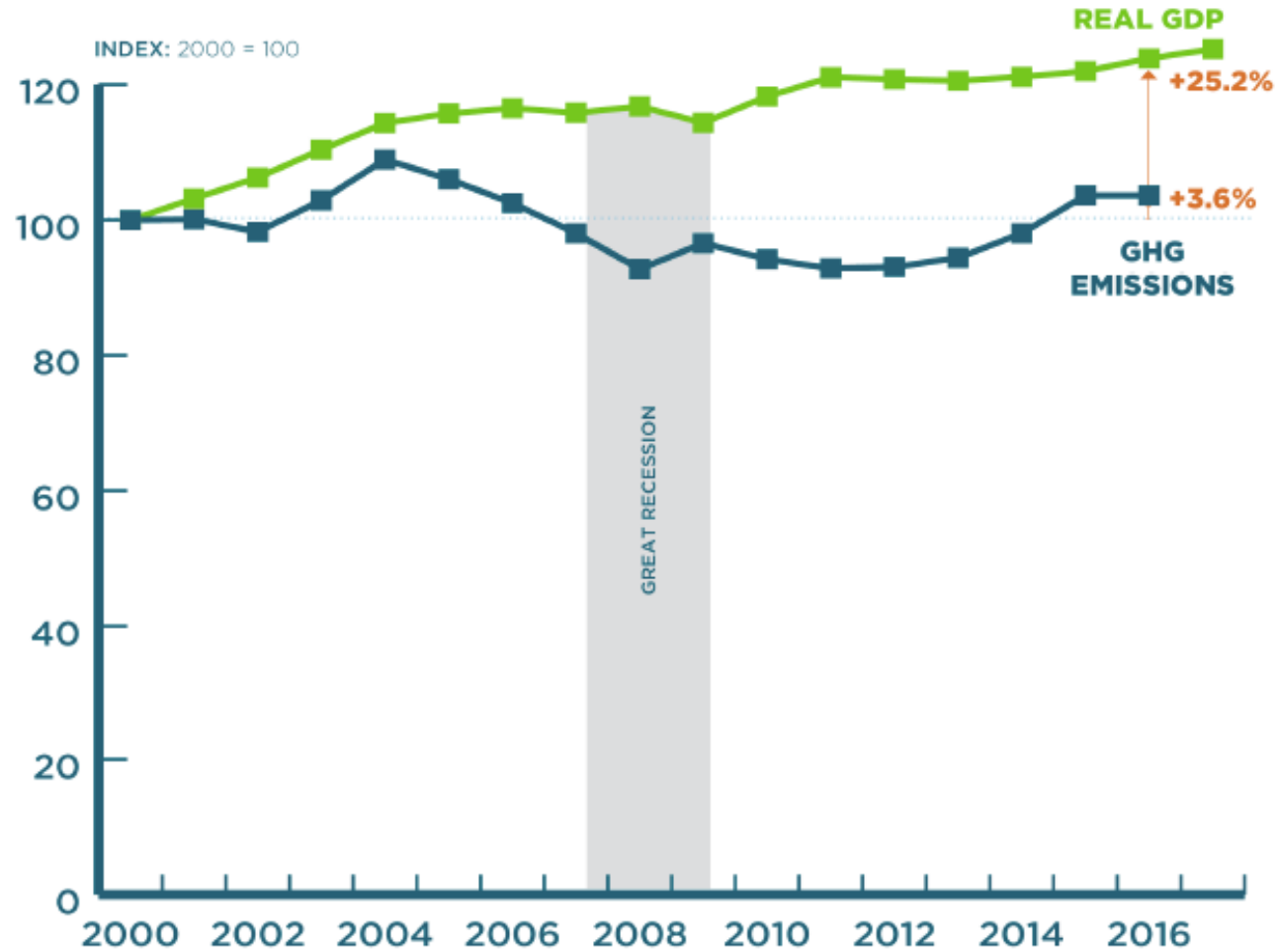


And British Columbia Implemented a Carbon Tax in 2008



But Vermont?

DECOUPLING? VERMONT'S REAL GDP AND GHG EMISSIONS, 2000-2017

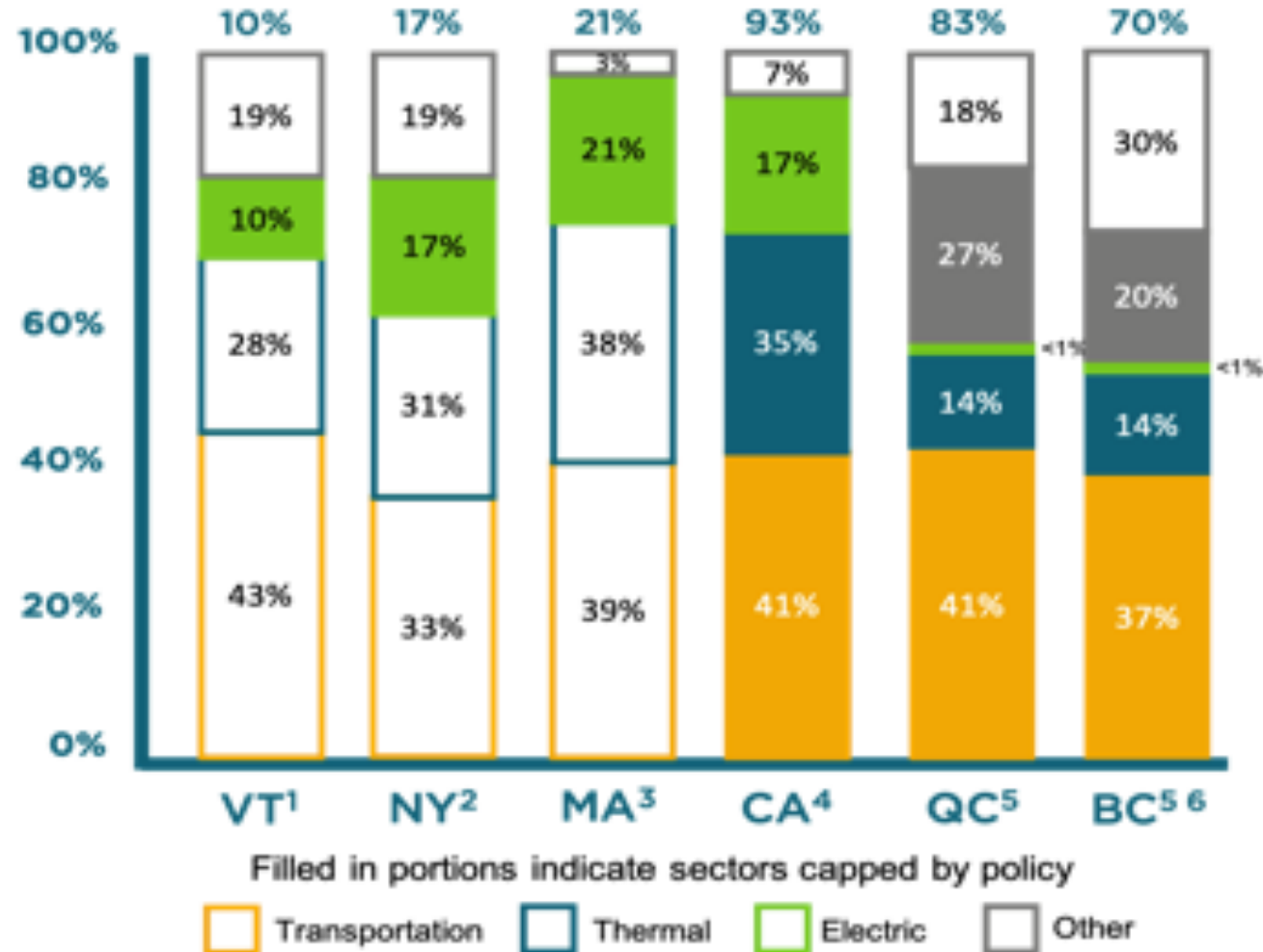


EMISSIONS: [HTTP://DEC.VERMONT.GOV/SITES/DEC/FILES/AQC/CLIMATE-CHANGE/DOCUMENTS/_VERMONT_GREENHOUSE_GAS_EMISSIONS_INVENTORY_UPDATE_1990-2015.PDF](http://dec.vermont.gov/sites/dec/files/aqc/climate-change/documents/_vermont_greenhouse_gas_emissions_inventory_update_1990-2015.pdf)
GDP: [HTTPS://FRED.STLOUISFED.ORG/SERIES/VTRGSP](https://fred.stlouisfed.org/series/VTRGSP)



Only one energy sector in VT is subject to emissions caps

Percent of emissions covered by statewide decarbonization program



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