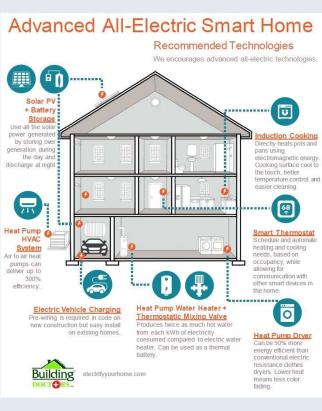
Building for Climate: Technology, Trends, and the Evolving Policy Landscape

white + burke
VERMONT
DEVELOPMENT
CONFERENCE

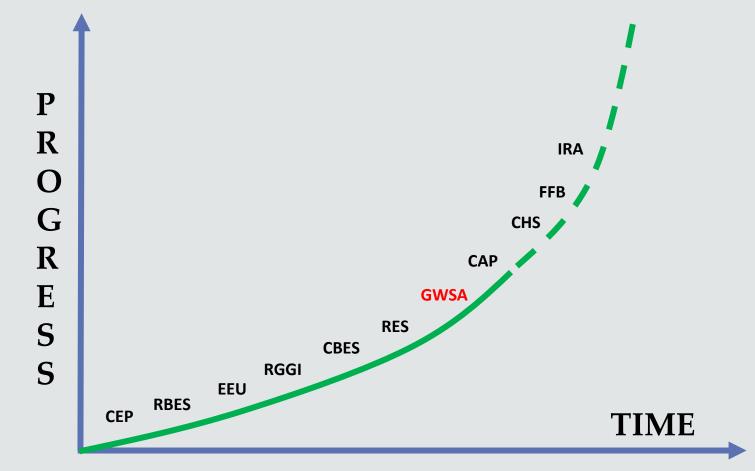




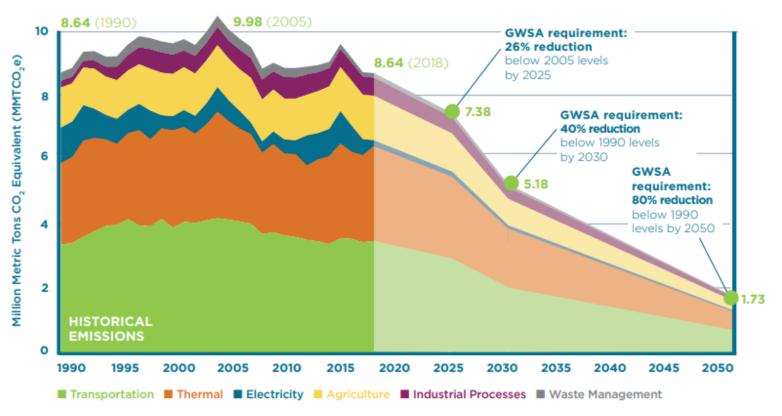






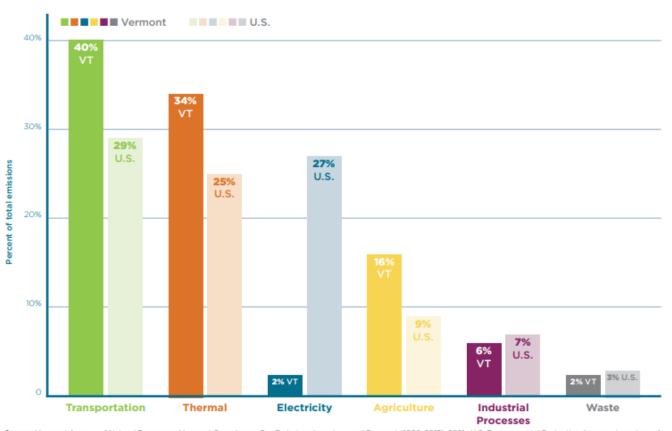


Vermont's historical GHG emissions and future requirements



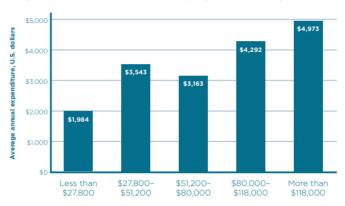
Source: Vermont Agency of Natural Resources, Vermont GHG Emissions Inventory and Forecast (1990-2017), 2021.

GHG emissions by sector, U.S. vs VT (2018)



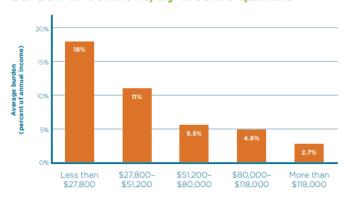
Source: Vermont Agency of Natural Resources, Vermont Greenhouse Gas Emissions Inventory and Forecast (1990-2017), 2021.; U.S. Environmental Protection Agency, Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2018, 2021. Note: Due to time lags in state and federal data reporting, 2018 is the latest data available.

Combined heating and electricity expenditures in Vermont, by income quintile



Source: U.S. Census Bureau, American Community Survey, 2018.

Combined heating and electricity energy burden in Vermont, by income quintile

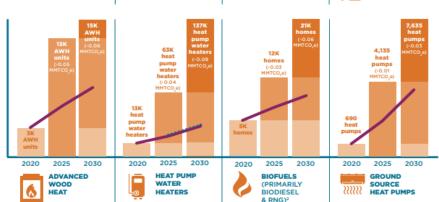


Top GHG reduction measures in Climate Council Pathways

Business-as-usual projection implied by existing policies as of fall 2021

· · · · Estimated increase from FY23 budget investments¹





High-Performance Buildings



PASSIVE ENERGY



INTEGRATED SOLAR



WATER MANAGEMENT







https://blog.evbox.com/how-to-charge-ev-safely



https://www.frost.com/news/press-releases/expansion-of-renewables-and-cost-reductions-drive-battery-energy-storage-to-forefront-of-national-energy-plans/

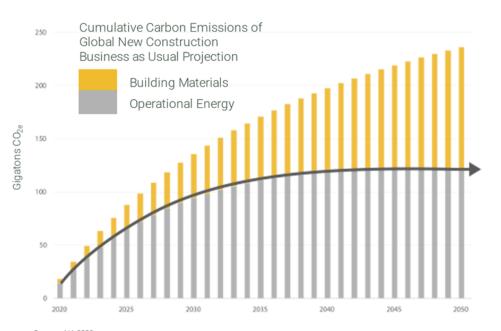


https://inhabitat.com/resilient-design-is-resilience-the-new-sustainability/

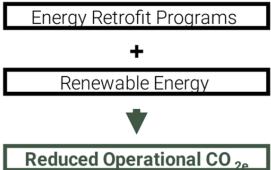


https://aebuildingsystems.com/tag/fresh-air/

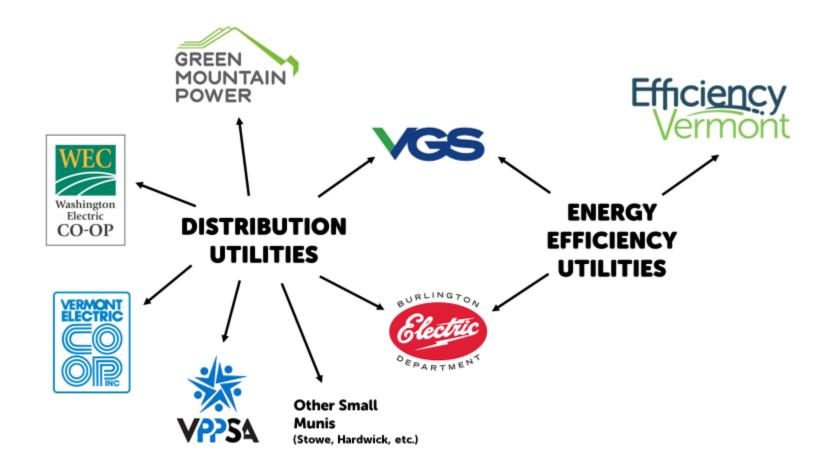
Embodied Carbon is increasingly significant



By 2050, it is projected that embodied carbon will take up almost half the total carbon emissions from new construction.



Source: AIA 2030



QUESTIONS?

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