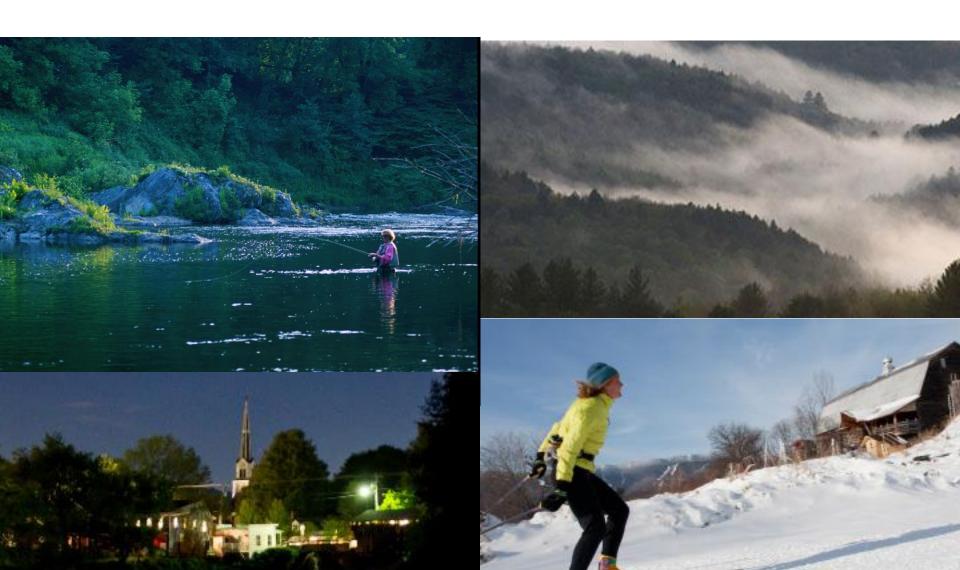
Climate Change and Vermont

Johanna Miller

Energy and Climate Program Director
Vermont Natural Resources Council

WWW.VNRC.ORG

Vermont Natural Resources Council



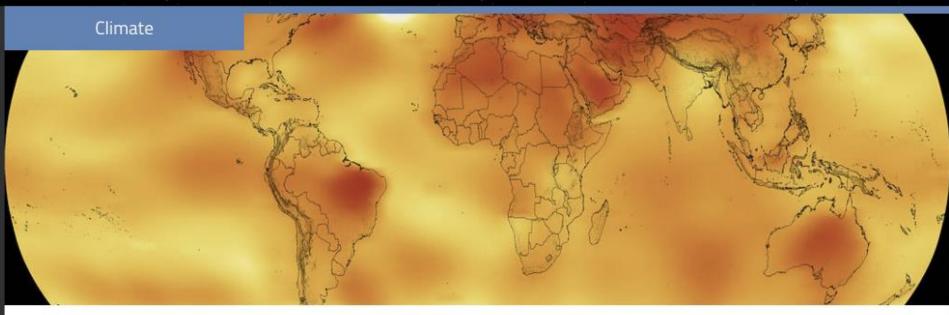
THE NUMBERS and THE SCIENCE





2016 – The Hottest Year on

Record



Jan. 18, 2017 RELEASE 17-006

NASA, NOAA Data Show 2016 Warmest Year on Record Globally





Impacts of Climate Change Global .. and in Vermont

Flooding – On Coasts and in Vermont



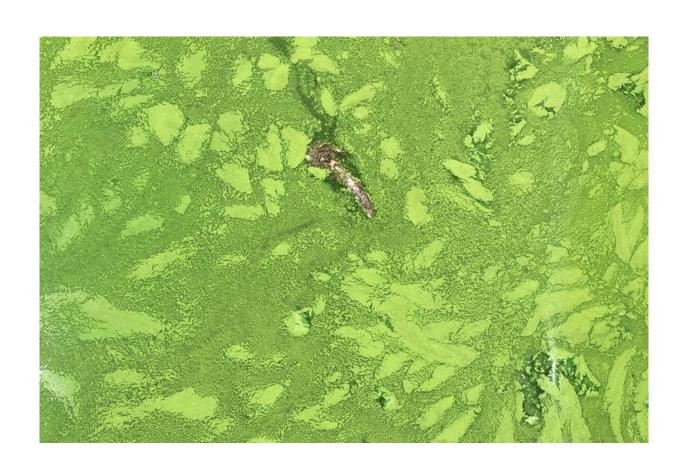
The New York Times



Irene's Impact Still Felt Five Years Later

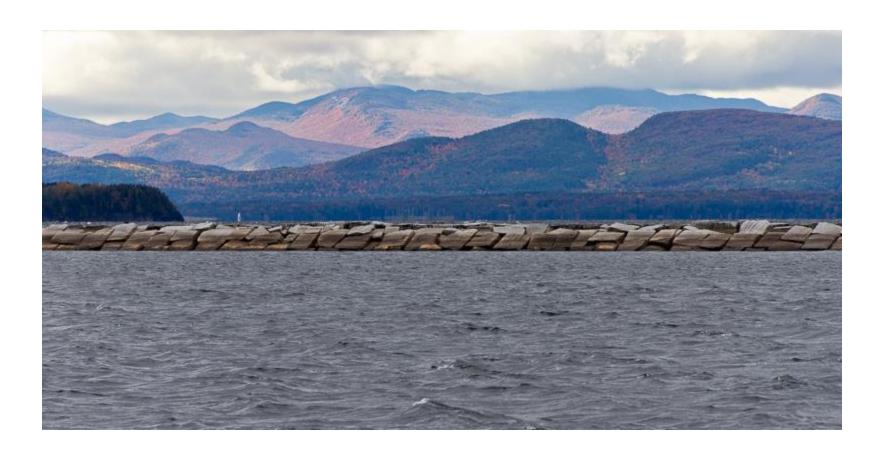


Poisonous Algae Blooms Threaten People, Ecosystems Across U.S.





Study: Climate Change Could Outpace EPA Lake Champlain Protections







NEWS ▼ WEATHER ▼

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CLOSINGS & DELAYS

COMMUNITY -

MORE ▼

Vermont expects Lyme disease cases to rise

The Associated Press

Published: May 18, 2016, 1:34 pm



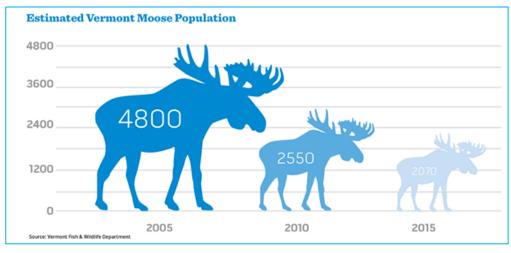








Ticks are Causing a Serious Decline in Vermont's Moose Population







The National Security Strategy, issued in February 2015, is clear that climate change is an urgent and growing threat to our national **security,** contributing to increased natural disasters, refugee flows, and conflicts over basic resources such as food and water.

CLIMATE REFUGEES?



CLIMATE CHANGE COMES AT A SIGNIFICANT COST

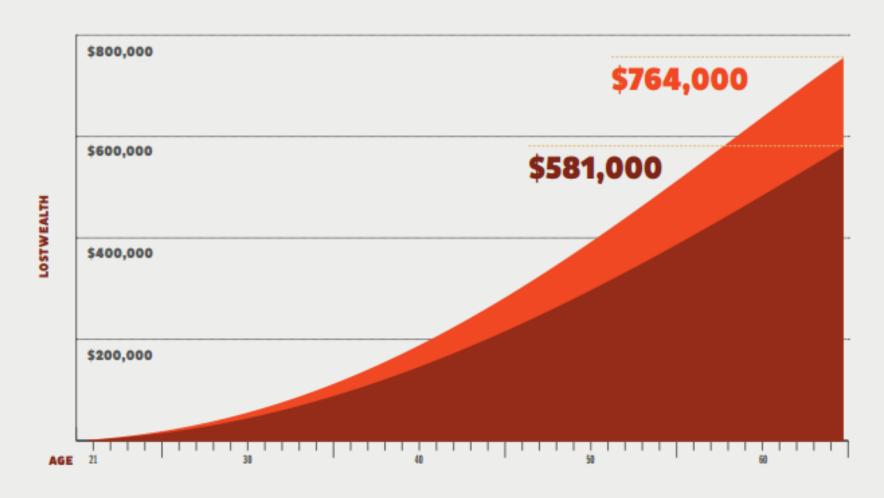


The Boston Bloke

FIGURE 04

LIFETIME LOST WEALTH FROM CLIMATE CHANGE, WORKERS WHO ARE BORN IN 2015

- MEDIAN EARNER
- MEDIAN COLLEGE DEGREE EARNER







STATE-LEVEL ACTION ON CLIMATE MATTERS MORE THAN EVER



What We've Done... and More to Do

Vermont Town Energy Committees



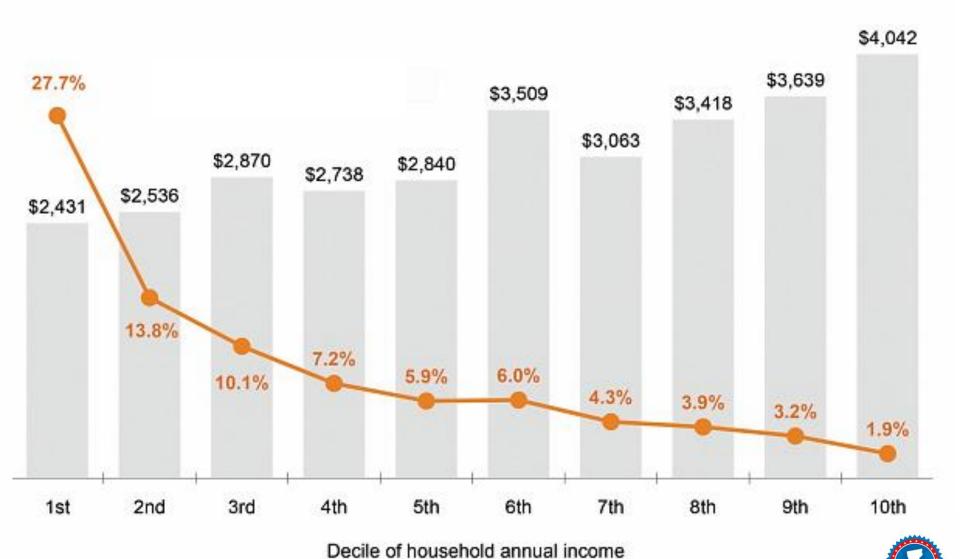
Vermont Innovation and Energy Independence



Vermont's Fast-Growing Clean Energy Sector



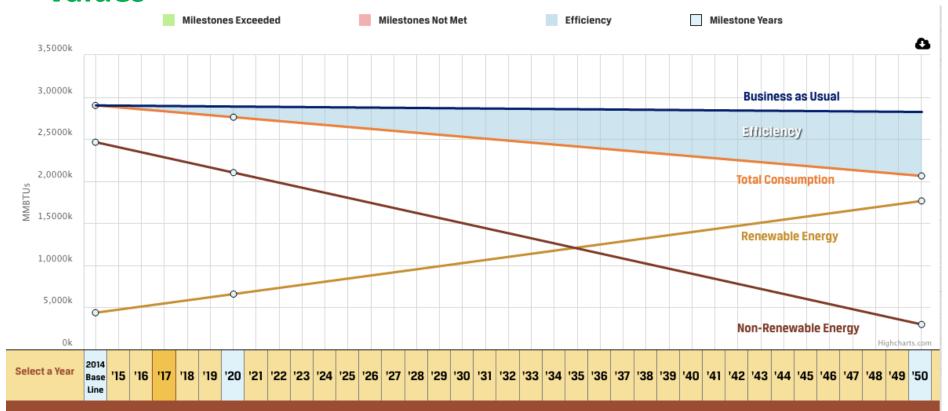
Figure 2b: Average annual expenditures for all energy used in the household in Vermont, by decile of household income, 2012 (in 2013\$)



How this transition happens matters.

Vermont must balance:

- Cost considerations
- Community concerns
- Protecting natural resources and other cultural/historic values



MOVING FORWARD

