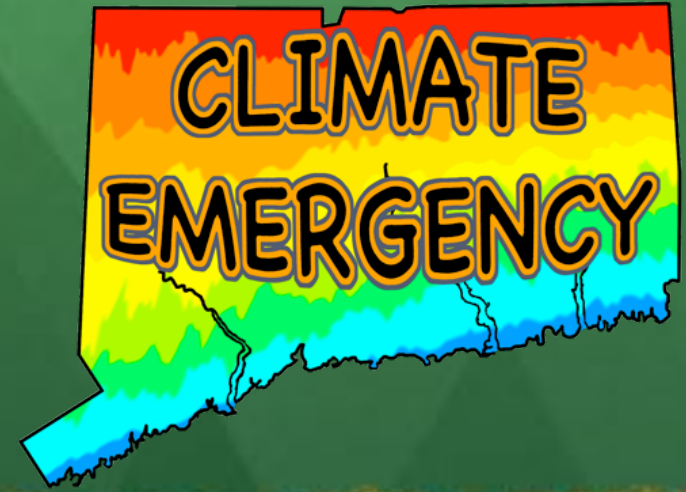


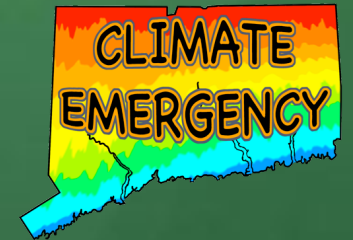
Roger Kuhns, PhD
Anne Schmidt, MA
Citizens' Climate Lobby



Connecticut:
A CLIMATE EMERGENCY

The need for fundamental meaningful climate legislation.

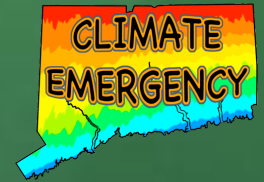
An ACT Concerning the CLIMATE EMERGENCY and the Necessary Actions to meet Connecticut's Emissions and Net Zero Goals



PURPOSE:

1. Declare a **CLIMATE EMERGENCY**.
2. Access more opportunities for **FEDERAL FUNDS**.
3. Phased **MORATORIUM** on *new* fossil fuel infrastructure.
4. Support federal **CARBON Fee and Cash Back** legislation.

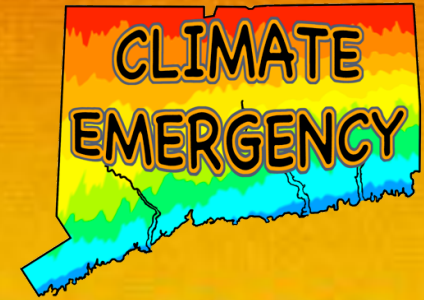
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STRATEGY:

1. Begin CCL* process for foundational climate laws.
2. Build on young people's involvement and vision.
3. Include CT organizations and communities in process.
4. Address concerns of those not supporting effort.
5. Seek bipartisan political, state & business support.
6. Call and talk with "everyone".

Source of the Problem *and* Foundational Climate Laws



Foundational Climate Laws directly address the source of the problem: the factors causing climate change.

Burning fossil fuels is the source problem of GHGs.

Therefore, pass laws addressing the source through:

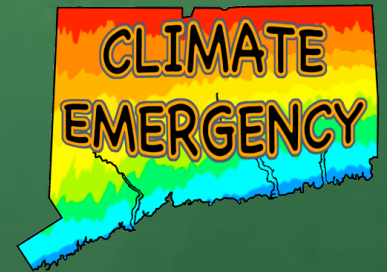
- ✓ Carbon pricing/cashback mechanisms.
- ✓ A moratorium on new fossil fuel infrastructure/buildings.
- ✓ Aggressively promoting renewable energy.
- ✓ Seeking increases in federal funding.

Federal Funds

- Federal Funding increases in emergency situations.
- The Climate Emergency is such a situation.
- There is over \$18 billion in Federal Funds for climate, environmental and community resilience programs.
- Connecticut already receives some of this; the goal with this bill is to increase funding towards meaningful climate programs for Connecticut's communities.
- With this effort Connecticut can get back on track towards achieving GHG reductions and a net-zero carbon grid.

CONNECTICUT

Emissions Reduction Goals



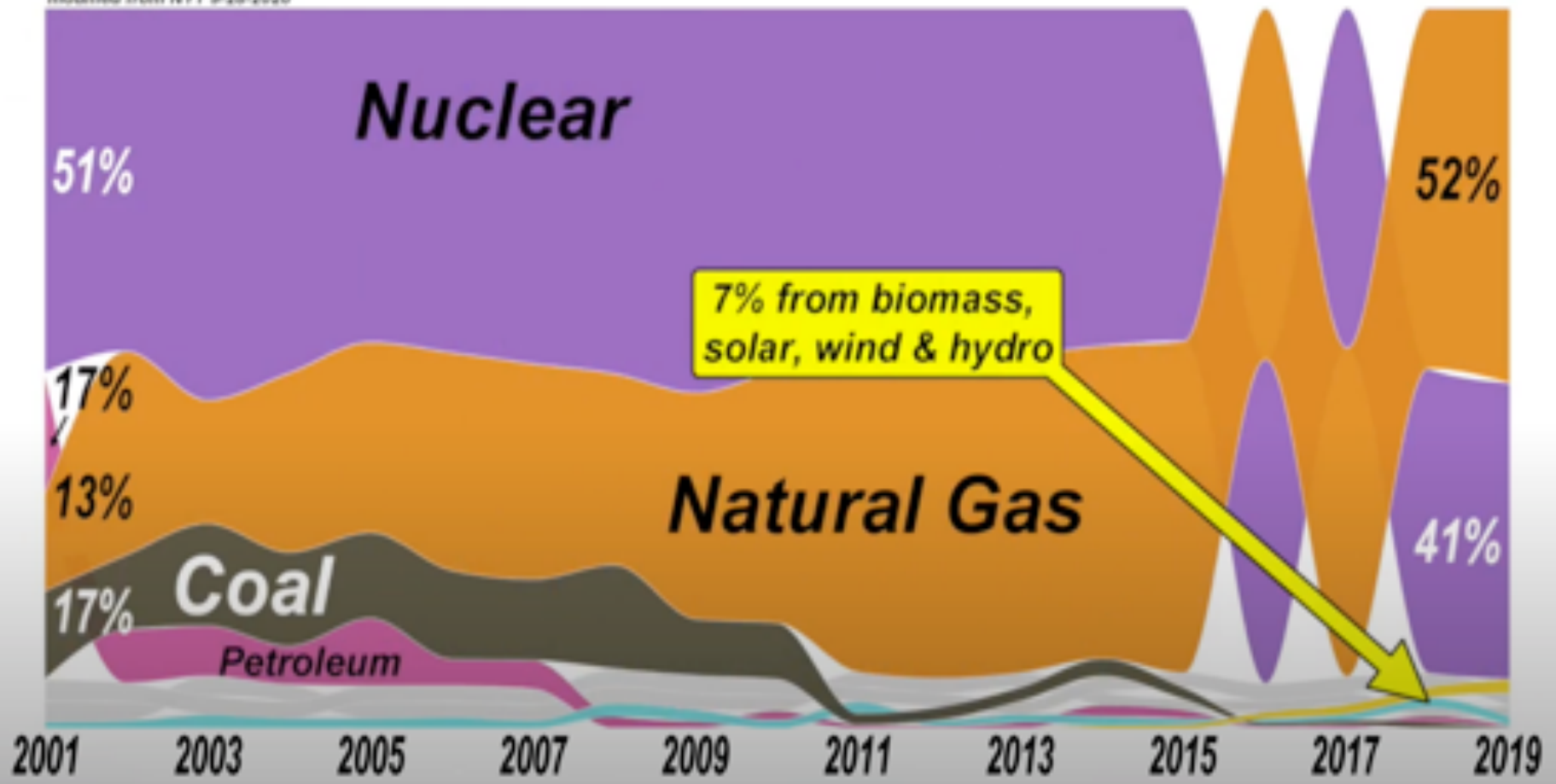
- 2030: 45% GHG reduction
- 2040: 0% Carbon electricity sector
- 2050: 80%+ GHG reduction

Connecticut Energy Sector

Connecticut: % power produced from energy sources - 2001 to 2019



modified from NYT 9-28-2020

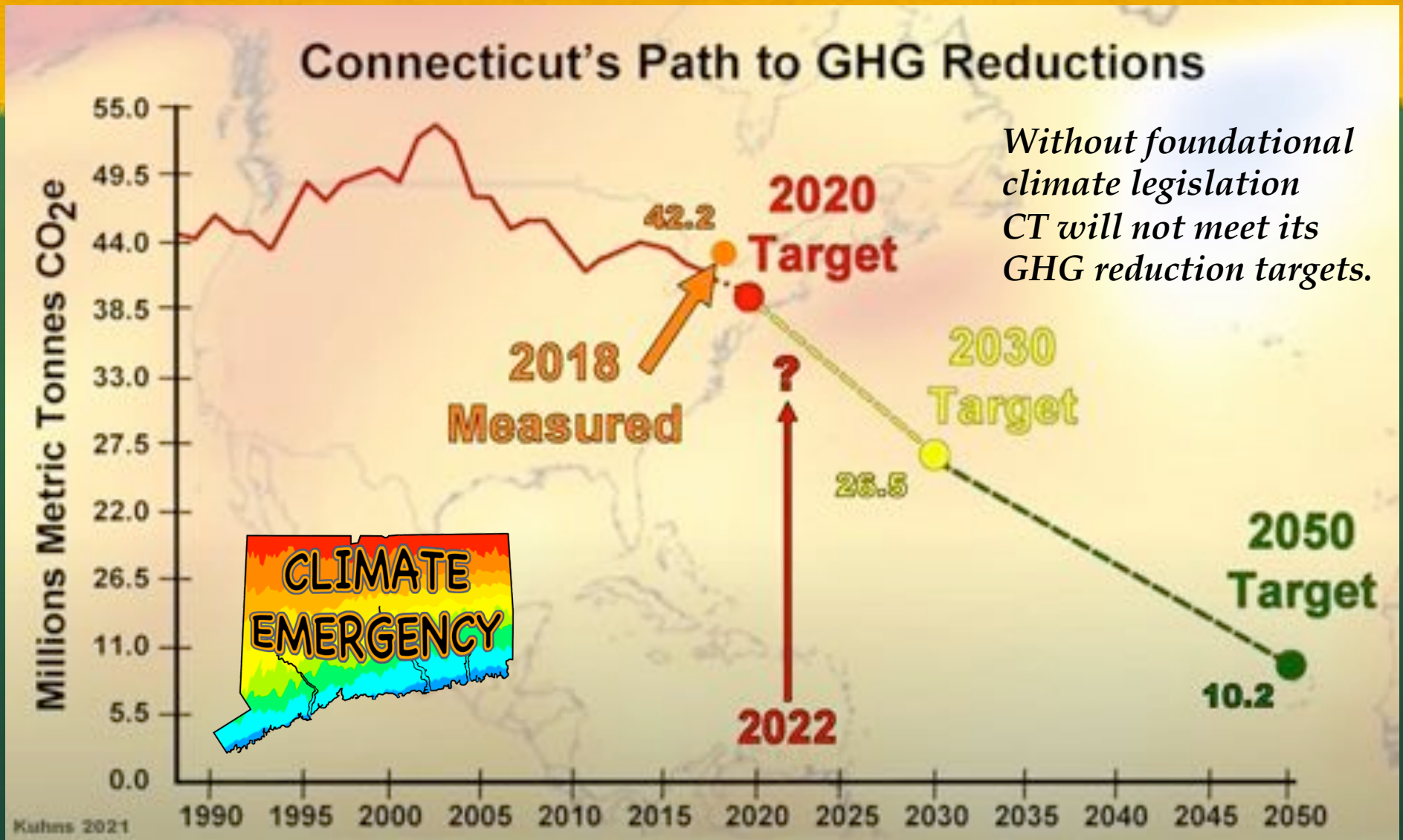


Connecticut Energy Profile

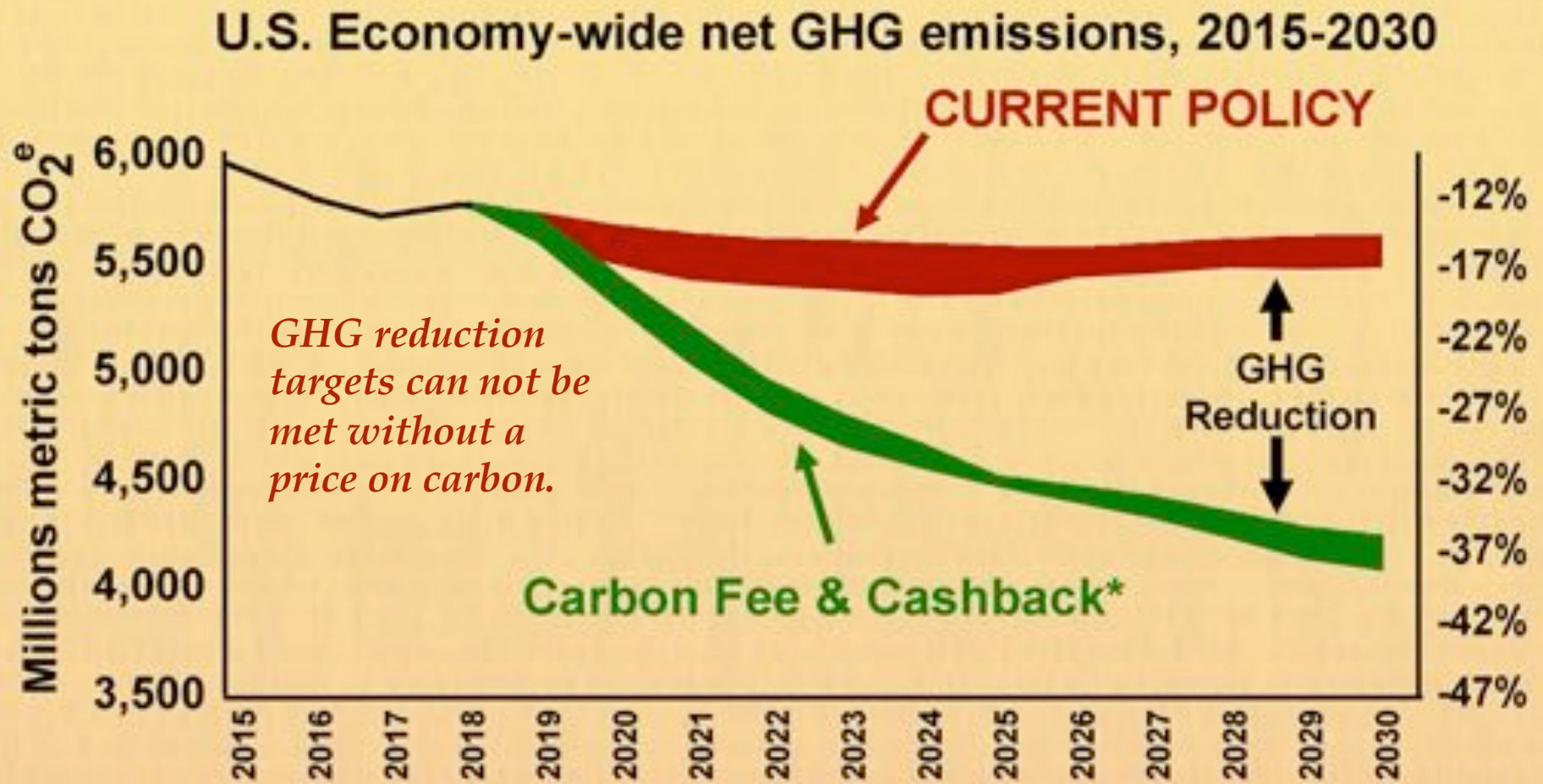
- Home Heating:
 - 80.1% by natural gas & oil (ng = 36% and oil = 44% of households)
 - 17.3% by electricity (2.7% other sources)
- Electricity Generation:
 - Natural Gas 56%
 - Nuclear (Millstone) 38%
 - Solar 2% Biomass 2% Hydro 1% Wind <1%

If all new infrastructure and buildings are electric, Connecticut can reduce natural gas and oil consumption and reduce GHG emissions.

Off Track - We Can't Meet Our Targets



A Price on Carbon Necessity:



Source: Rhodium Group analysis

*example: Fed. HR2307 Energy Innovation & Carbon Dividend Act

GHG emissions drop even more with a moratorium on new fossil fuel infrastructure/buildings.

Phased Moratorium

- **Moratorium:** no new fossil fuel infrastructure/buildings.
- **Mandate:** all new infrastructure/buildings electrified.
- **Electric:** This allows direct hookup to clean energy systems and the existing electric grid during buildup of clean energy systems.
- **Existing:** fossil fuel infrastructure/buildings continue to be supplied until equipment ages and requires replacement, at which time electric systems are installed.
- **Protects:** existing oil & gas distribution companies (existing jobs & clients) for at least 10+ years, and gives them time to make transitions to clean energy systems and jobs.

An ACT Concerning the Climate Emergency

2022

2023

2024

2025

Climate
Emergency

CLIMATE
EMERGENCY

CT
Matching
Funds

Young
People
Involved

Federal
Funds

No EV
impediments

Support for
Federal
C-Pricing
&
Cash-Back

Farm
Support

Renewable
Energy
on all new
buildings

Fossil
Fuel
Moratorium
on
NEW
infrastructure
& Buildings

Nature-based
Solutions for
Flood Control

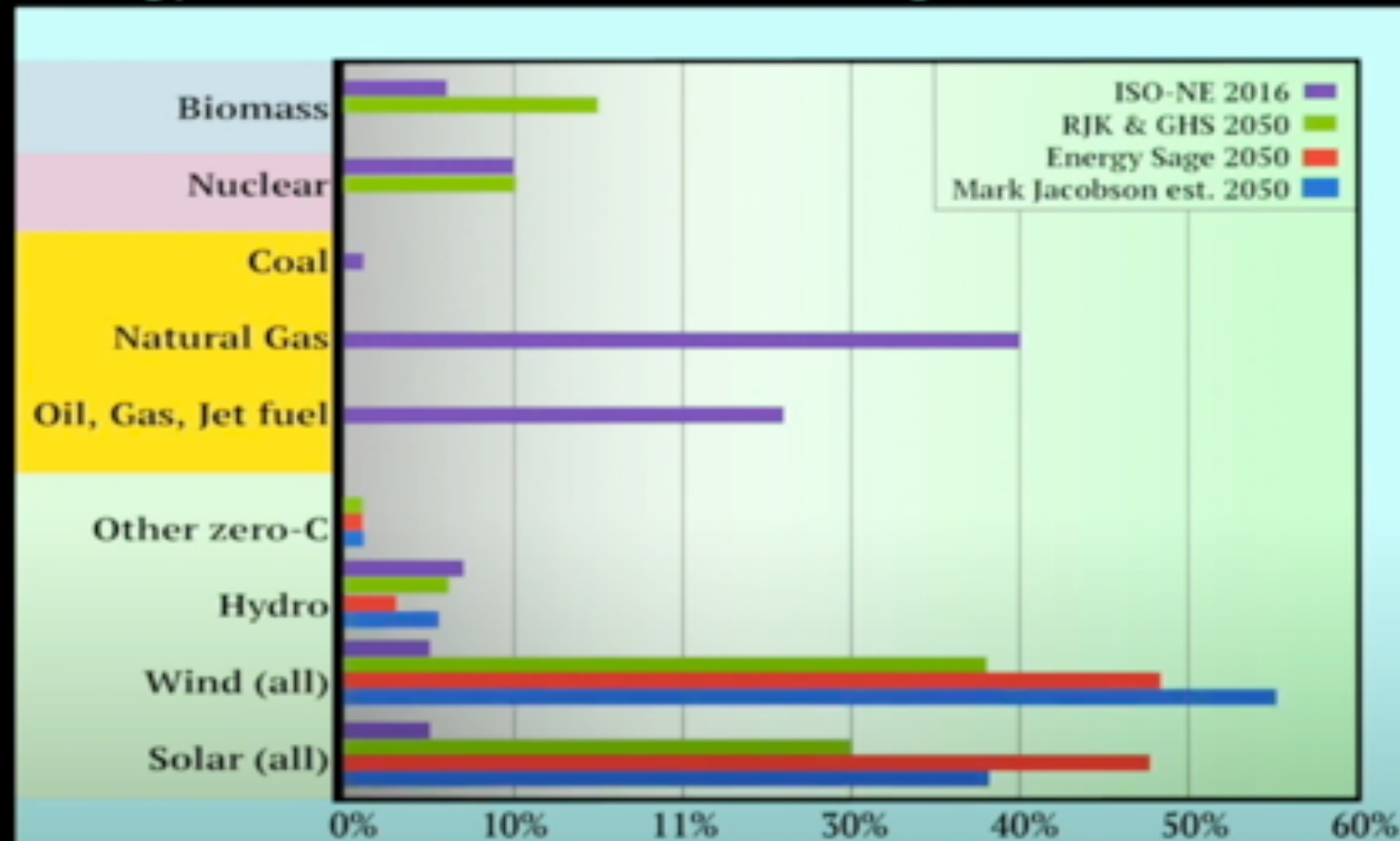
F.F.
Divestment

microgrid
support

Job
Training

Energy Mix: 2050 – minimal fossil fuels

Energy Source Balance in New England 2016 to 2050



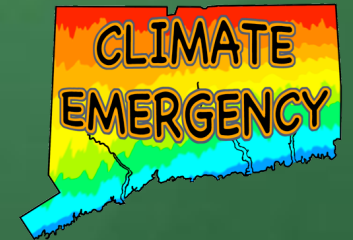
2050

2016

Kuhns, 2018

rogerjameskuhns@gmail.com 1-18-2022

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Immediate Action

- Email the Connecticut General Assembly Environmental Committee co-chairs asking for their support to raise the bill in committee:
 - State Senator Christine Cohen
 - cohen@senatedems.ct.gov
 - State Representative Joe Gresko
 - Joseph.gresko@cga.ct.gov

