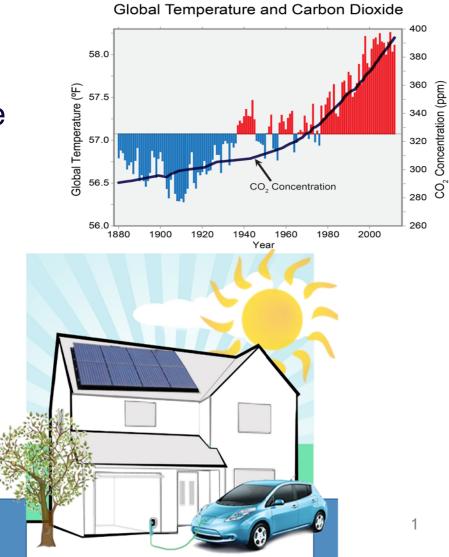
## Climate Change Basics

- The scope and urgency of the climate crisis
- Who should I believe?
- What can I do about it?
- Visions of a brighter future

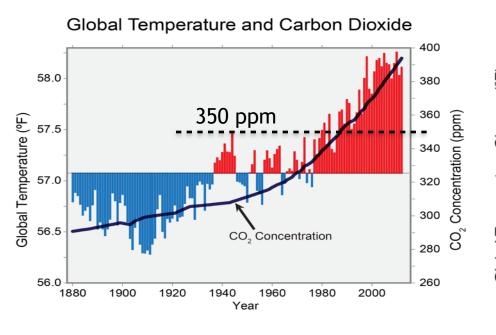


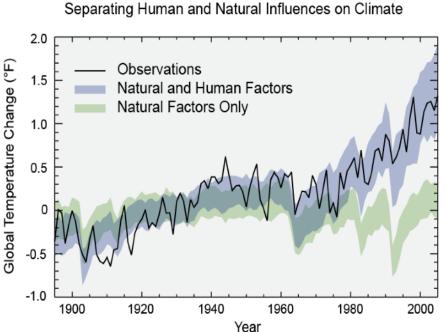


### We're in a Crisis

A very serious crisis...

#### And we're the cause

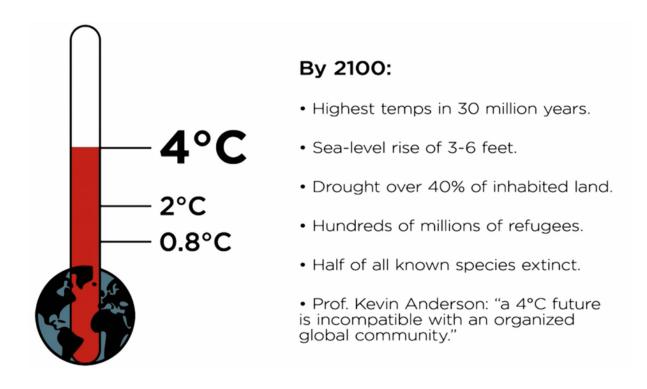




Why a 4°C Warmer World Must be Avoided



## We Must Act Decisively and Urgently



"2°C is dangerously high, and we're headed for 6°C"

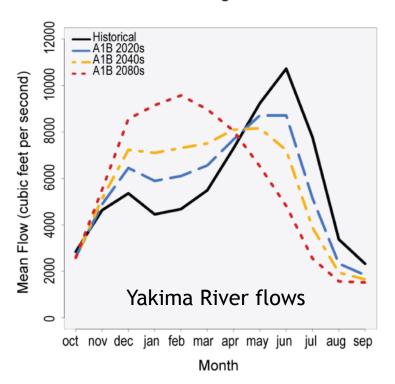
Are Humans Going Extinct?



## Climate Change in Our Backyard

April 1 snowpack projected to decline 37-44% on average in WA by the 2040s

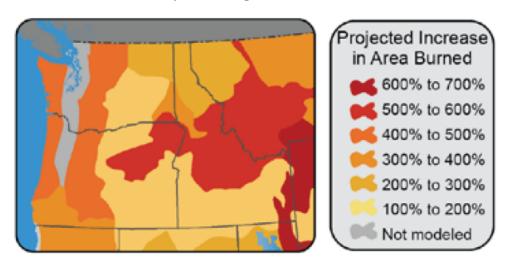
Future Shift in Timing of Stream Flows



1-4 feet of sea level rise by 2100

Ocean acidification threatens species like oysters and salmon

At 2.2°F of global warming, forests are weakened by drought and more insects



### Who Should I Believe?

- 97% of climate scientists
- All national academies of science
- Pope Francis
- State Department
- Department of Defense
- International Monetary Fund
- World Bank
- International Energy Agency
- United Nations
- Most nations



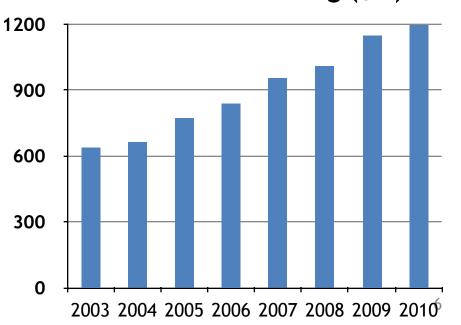
Or a dinosaur industry?

### Who Should I Believe?

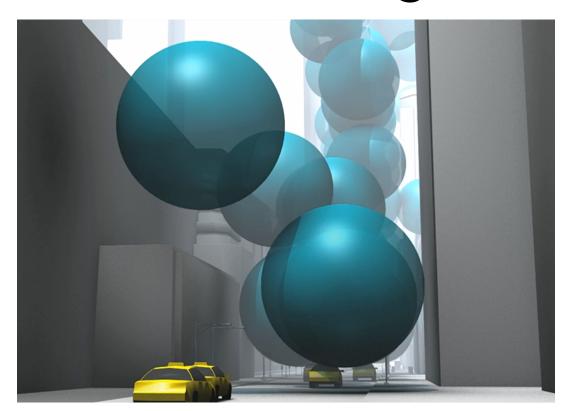
- It's all about money and power
  - Operating profits of 50 top US oil companies (2013): \$ 51B
  - IMF estimated subsidies to US fossil fuel companies:
  - Annual disinformation campaigns:
  - Koch brothers' 2016 political contributions planned:

Climate Change Counter Movement Funding (\$M)

 The only "climate conspiracy" is the conspiracy to confuse the public, buy votes, and delay the inevitable energy transition!

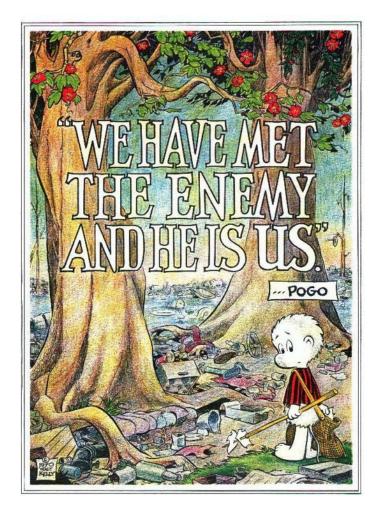


### Visualizing CO<sub>2</sub> Emissions

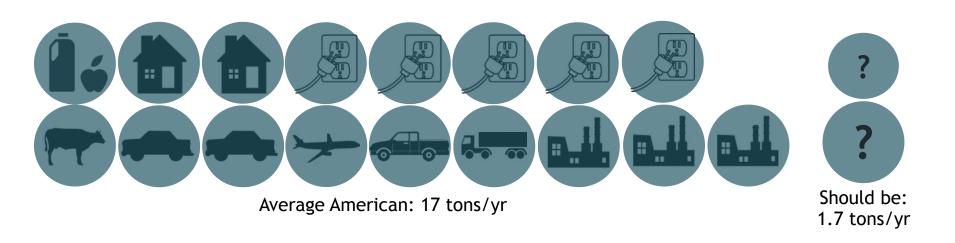


One ton of CO<sub>2</sub> pollution would fill a 33-foot sphere

Burning 80 gallons of gas or diesel creates one ton of CO<sub>2</sub> pollution



# Our Emissions Decisions Determine Our Future



The bad news: You MUST change your behaviors...

### The Old vs. New American Dream

- More is better
- Time is money
- Greed is good
- We will dominate nature
- Disrespect for ecosystems
- Disrespect for species, others
- Etc.

- Enough is better
- Time is life
- Compassion counteracts greed
- We are part of nature
- Economy is a subsidiary of Earth
- Decisions for next 7 generations
- Etc.



### What Can I Do About It?

I. Direct your frustration at reducing your personal and community's emissions

Calculate your CO<sub>2</sub> emissions, reduce, track<sub>1</sub>

Insulate your house

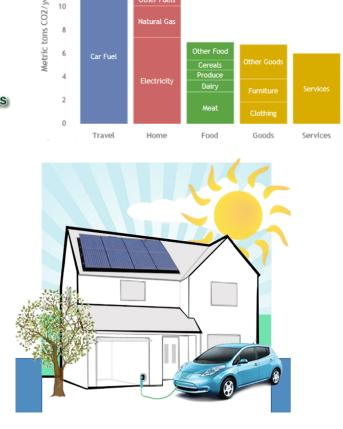
Buy less gas

Eat less meat



15% DRAUGHTS

Divest your fossil fuel infrastructure



Personal and local actions are necessary but not sufficient!

### What Can I Do About It?

## II. Drive Climate-Repairing Policies at All Levels of Government

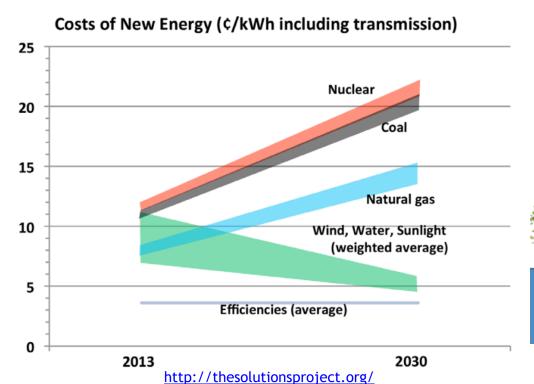
- Increase awareness
  - Teach-ins, LTEs, marches, protests, direct actions
- Lobby for the right policies to reduce greenhouse gas (GHG) emissions
  - No coal or oil terminals; RPS; vehicle feebates; RFS;
    PUC policies; organic farming; fossil fuel divestments;...
- Campaign for and fund the right candidates
- Lobby to get Big Money out of elections

"We know we have a problem and we know what to do about it, but we have no political will."

-Tom Steyer

## Visions of a Brighter Future

- The fossil fuel industry says renewables will be too costly, too small, and too unreliable—but exactly the opposite is true
- Costs of renewables and storage dropping rapidly
- Commuter EVs already the lowest cost of ownership!
- Solar financing now with zero-down!





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## Summary

- The climate crisis is urgent and existential
- Believe the climate scientists and progressives
- Reduce your emissions and lobby for better policies
- The fossil fuel industry is delaying your brighter future by any means they can

