Climate Recovery Ordinance 350ppm Target Background

December 16, 2015



Climate Recovery Ordinance

1. Clarifies and codifies existing goals:

Reduce community-wide fossil fuel use 50% by 2030 Carbon Neutral City operations by 2020

2. Calls for an assessment of current efforts

Reported to Council February 2015

3. Calls for Targets and Benchmarks to achieve existing goals

Discussed with Council November 2015

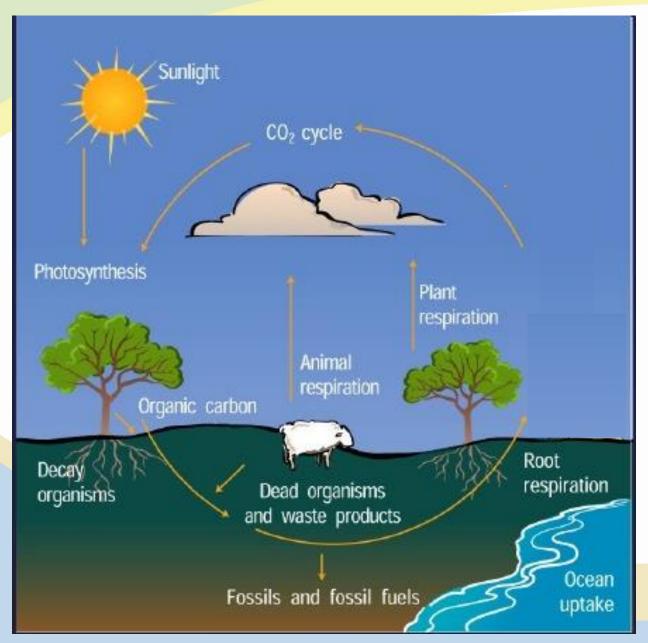
- 4. Calls for the development of a science-based community greenhouse gas reduction goal
- 5. Calls for regular progress reports to Council
- 6. Establishes a process of analysis, reporting, and readjustment if community or internal targets are not met.



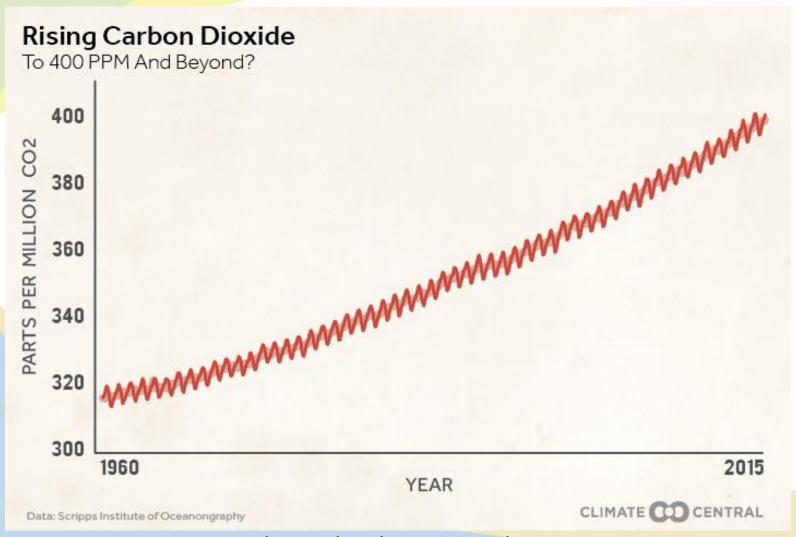
Overview

- 1. Not All Carbon Is The Same
- 2. The Greenhouse Effect
- 3. Carbon And Temperature
- 4. Feedbacks
- Next Steps

Not all Carbon is the same

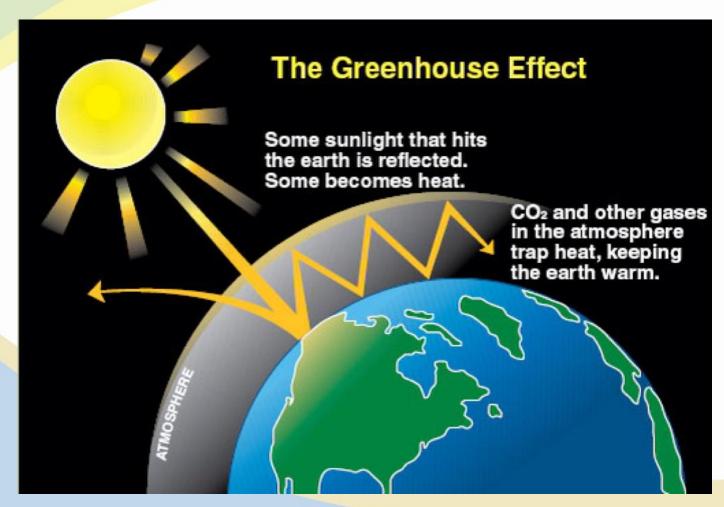


350ppm



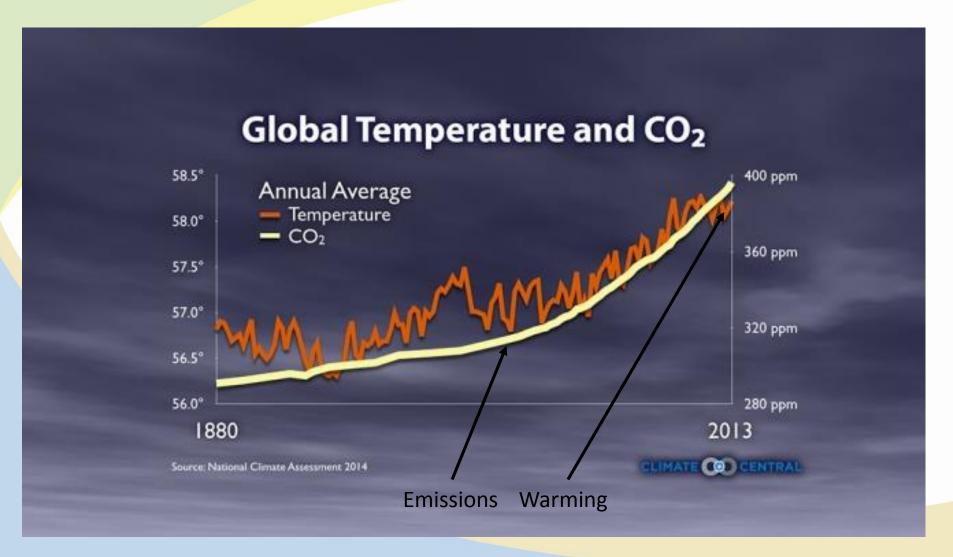
Graphic credit: ClimateCentral.org

Greenhouse effect



Graphic credit: NOAA

Carbon and temperature



Graphic credit: ClimateCentral.org



Image credit: ClimateCentral.org

September arctic sea ice extent 1979

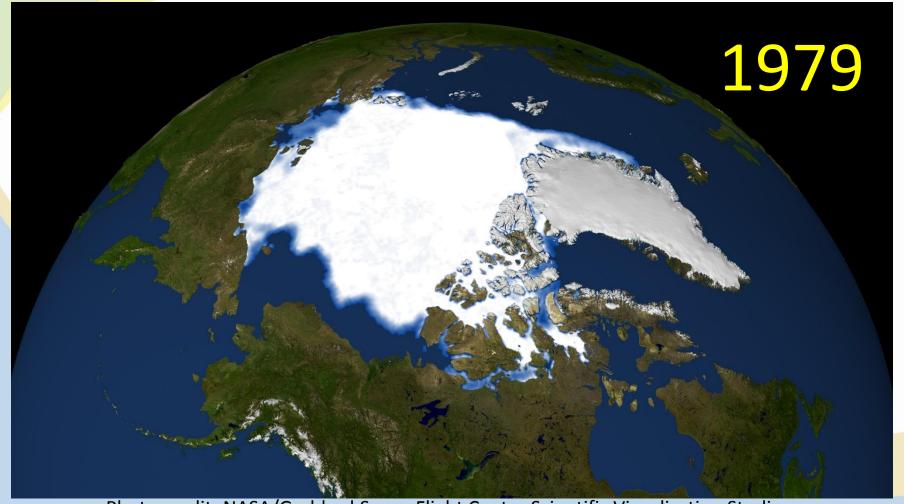


Photo credit: NASA/Goddard Space Flight Center Scientific Visualization Studio

September arctic sea ice extent 2007

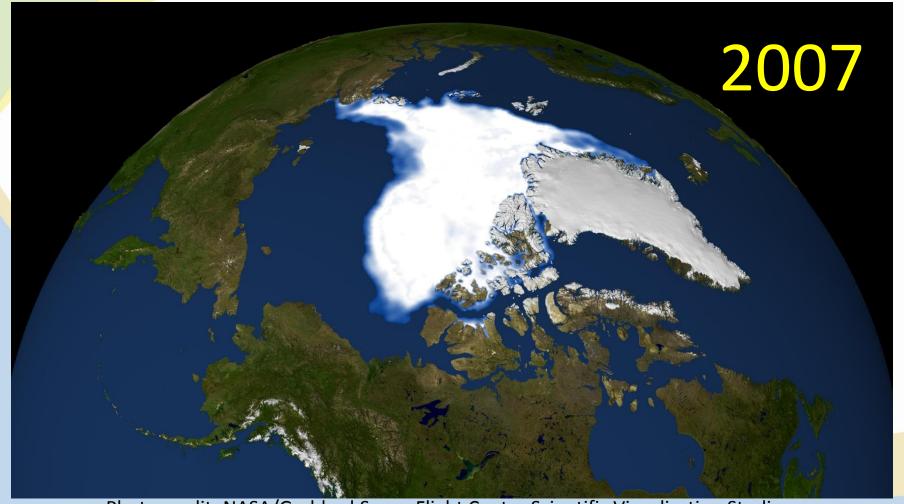


Photo credit: NASA/Goddard Space Flight Center Scientific Visualization Studio



Photo credit: NASA



Recap

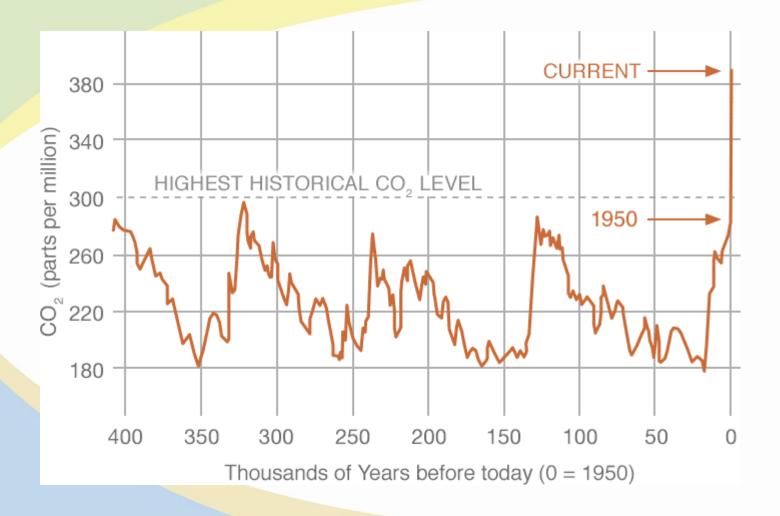
- 1. Rising CO₂ causes rising temperatures
- 2. Our influence
- 3. 350ppm would avoid feedbacks
- 4. Future work session

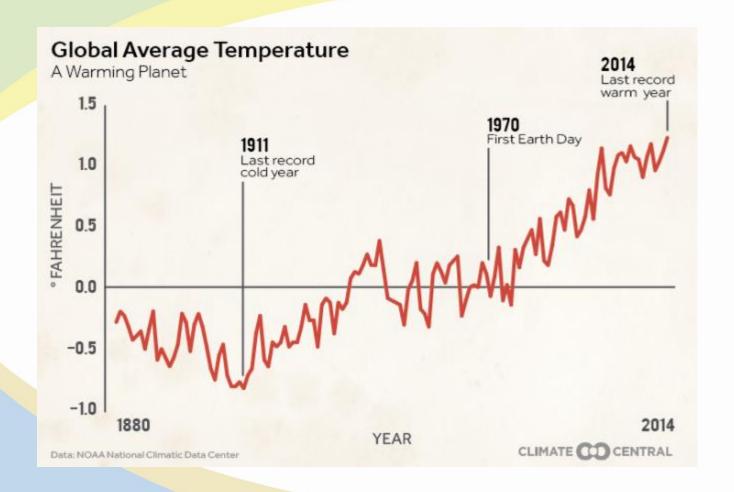
Matt McRae City of Eugene (541) 682-5649

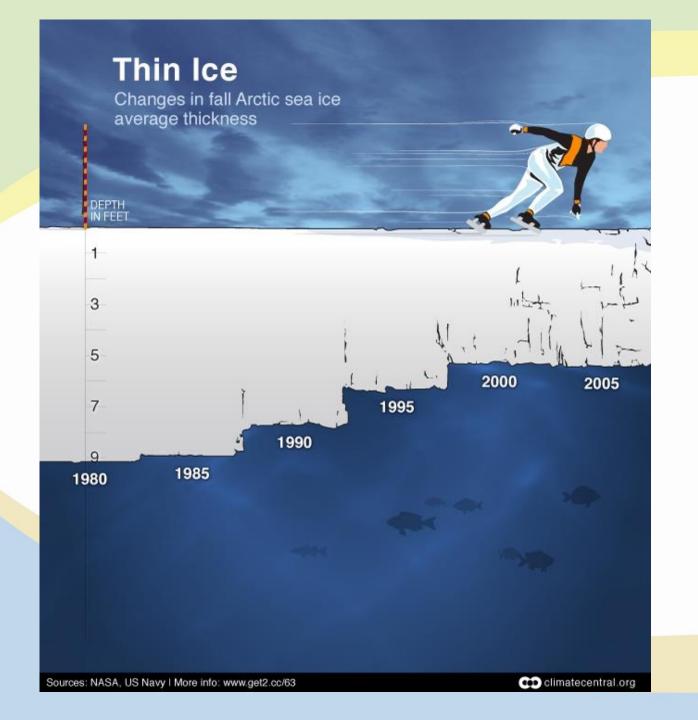
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www.eugene-or.gov/sustainability

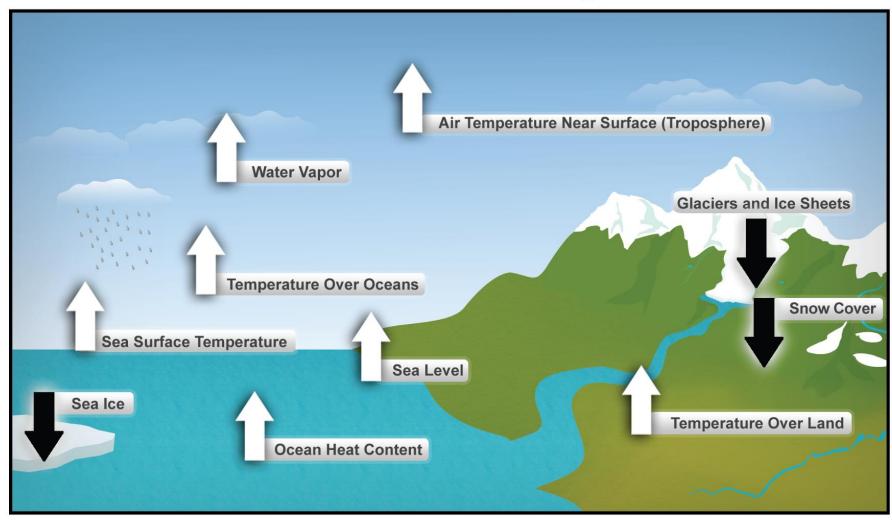
Eugene City Council December 16, 2015







Ten Indicators of a Warming World



Separating Human and Natural Influences on Climate

