

Climate Recovery Ordinance
Carbon Budget
February 10, 2016



Overview

1. Review
2. Carbon Budget
3. Council Touchpoints

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

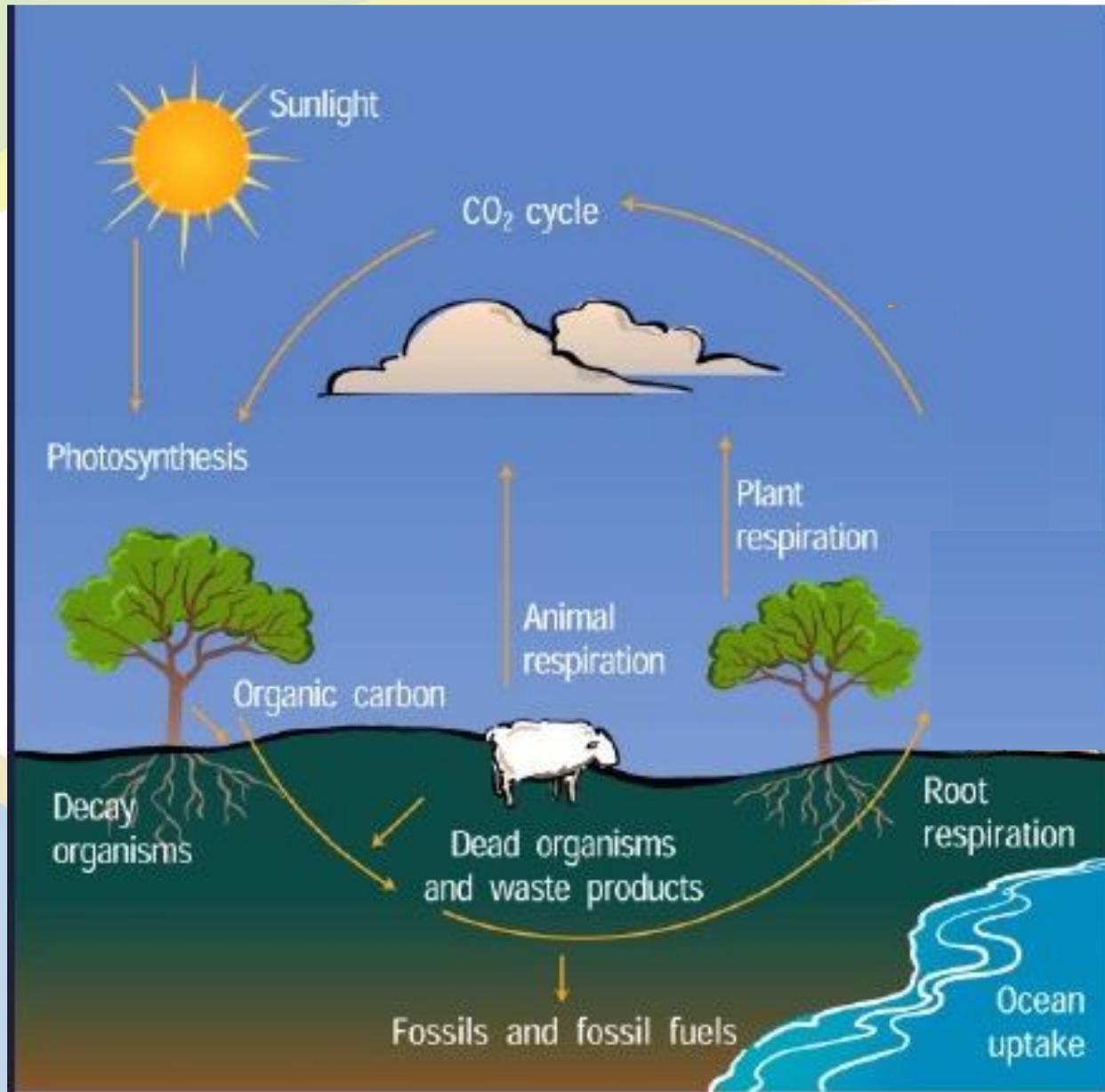
Discussed with Council November 2015

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.

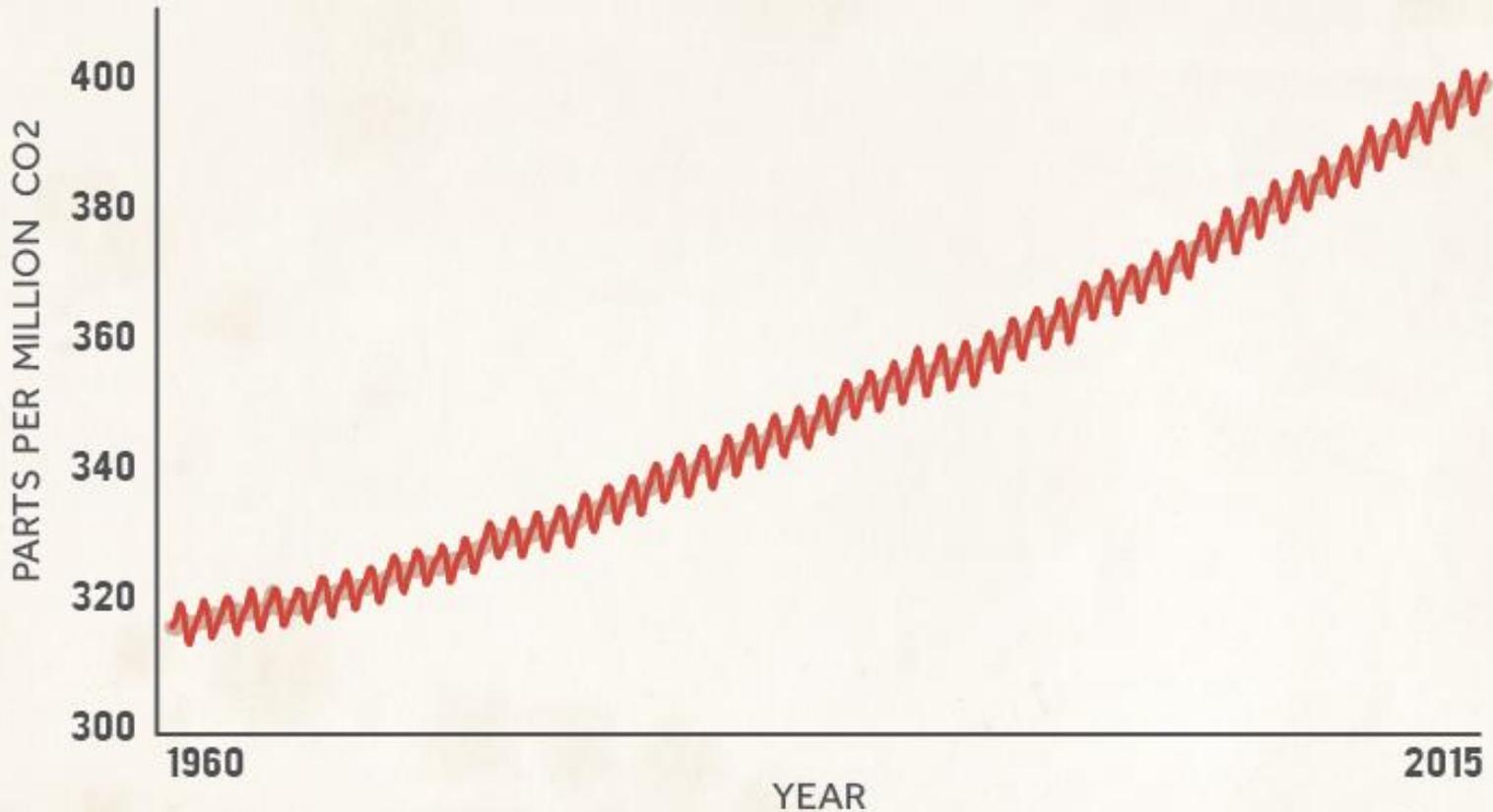
Carbon Cycle



350 ppm

Rising Carbon Dioxide

To 400 PPM And Beyond?



Data: Scripps Institute of Oceanography

CLIMATE  CENTRAL

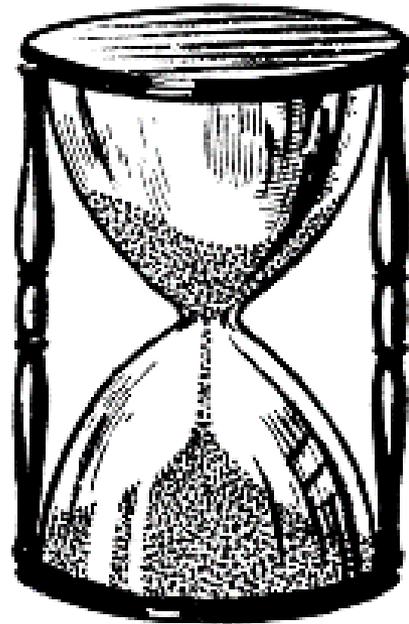
Graphic credit: ClimateCentral.org

Feedbacks



Image credit: ClimateCentral.org

What is a Carbon Budget?



Carbon budget remaining

Carbon budget already spent

Basis for Budget



National Aeronautics and Space Administration
Goddard Institute for Space Studies



UNIVERSITY
OF OREGON

Carbon Budget Benefits

1. Aligns with best available science
2. Outlines necessary reductions to achieve a stable climate
3. Accounts for those emissions already released
4. Provides clarity about our community role
5. Provides fixed amount

Target vs. Budget

Conventional GHG Targets

Incremental decreases over time

Measured reduction over time

“75% reduction by 2050”

Set based on an historic rate of emissions

“75% reduction from 1990 levels”

Based on negotiated target from Kyoto Protocol treaty in 1992

Carbon Budget

Based on total cumulative emissions

Fixed, one-time allocation

9.3 million metric tons CO₂

Set to achieve safe level of CO₂

350ppm and 1°C of warming

Based on best available science of today

Upcoming Council Touchpoints

February – April 2016:

Council consideration and possible action on 350 ppm goal

May 2016:

Update on internal goals and City operations

June 2016:

Council consideration and possible action on numerical targets and benchmarks

Fall 2016:

Progress update

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*Eugene City Council
February 10, 2016*