

The Climate Registry

CalPlug Workshop Series #9

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Outline

→ About The Climate Registry

→ Introduction to Greenhouse Gas Accounting

→ Water-Energy Greenhouse Gas Guidance



ABOUT THE CLIMATE REGISTRY



About The Climate Registry

We empower the world's leading organizations with the highest quality carbon data in order to operate more efficiently, sustainably and competitively.

- Provide tools and member support
- Foster community of members & policy makers
- Recognize leadership
- Author general and sector-specific guidance & protocols

"You can only manage what you measure."



Community of Members







BENTLEY





























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INTRODUCTION TO GREENHOUSE GAS ACCOUNTING



What is a GHG footprint?

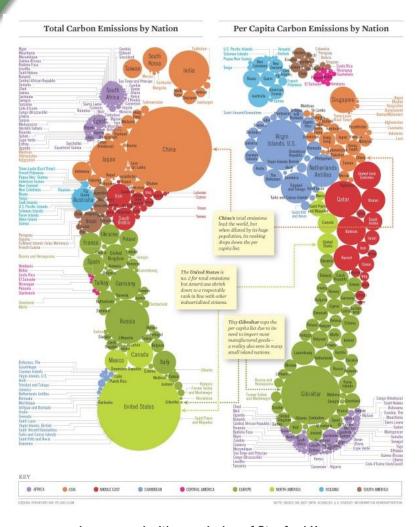


Image used with permission of Stanford Kay

- → The total amount of greenhouse gases that are emitted into the atmosphere each year by an organization
- → Greenhouse gases include:
 - Carbon dioxide (CO₂)
 - Methane (CH₄)
 - Nitrous oxide (N₂0)
 - Hydrofluorocarbons (HFCs)
 - Perfluorocarbons (PFCs)
 - Sulfur hexafluoride (SF₆)
 - Nitrogen trifluoride (NF₃)

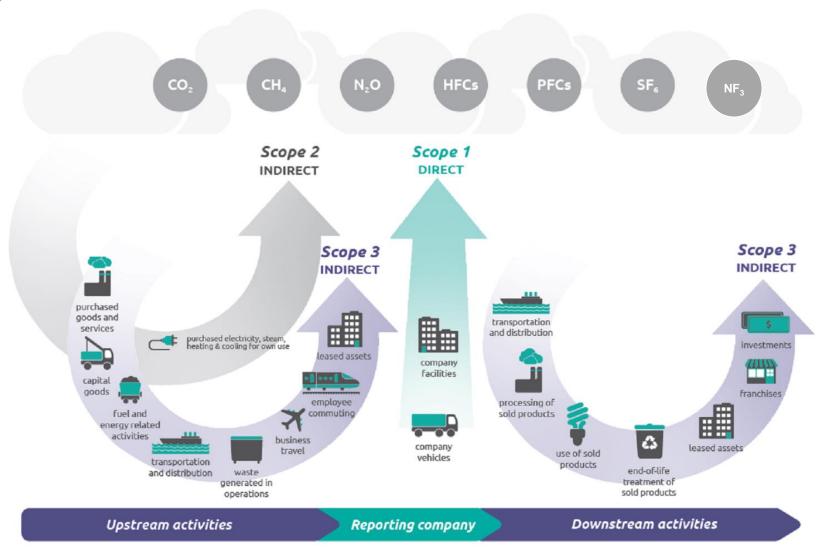


Steps in GHG Accounting

- Identify reporting boundaries
 - 2 Select your facilities based on boundaries
 - Organize and collect data on emission sources
- Quantify and report emissions



Step 3: GHG Emission Sources





Step 4: Quantify and Report Emissions

Activity Data: the amount of fuel or material that, when used, causes GHGs



Emission Factor (EF): converts activity data into GHGs





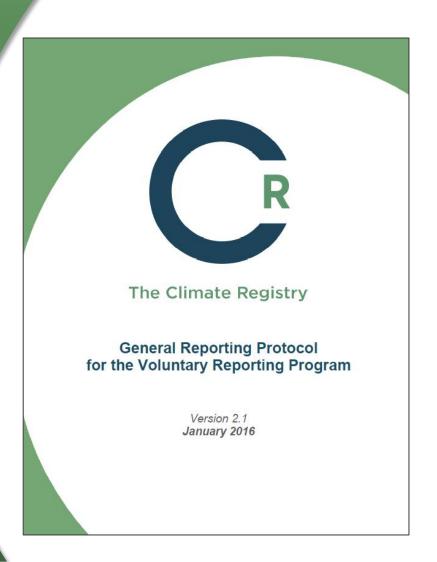
Global Warming
Potential (GWP):
converts non-CO₂
emissions into CO₂e







TCR's Accounting Resources



Local Government Operations Protocol For the quantification and reporting of greenhouse gas emissions inventories Version 1.1

May 2010

Developed in partnership and adopted by:

California Air Resources Board

California Climate Action Registry

ICLEI - Local Governments for Sustainability

The Climate Registry



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Electric Power Sector Protocol for the Voluntary Reporting Program

Annex I to the General Reporting Protocol

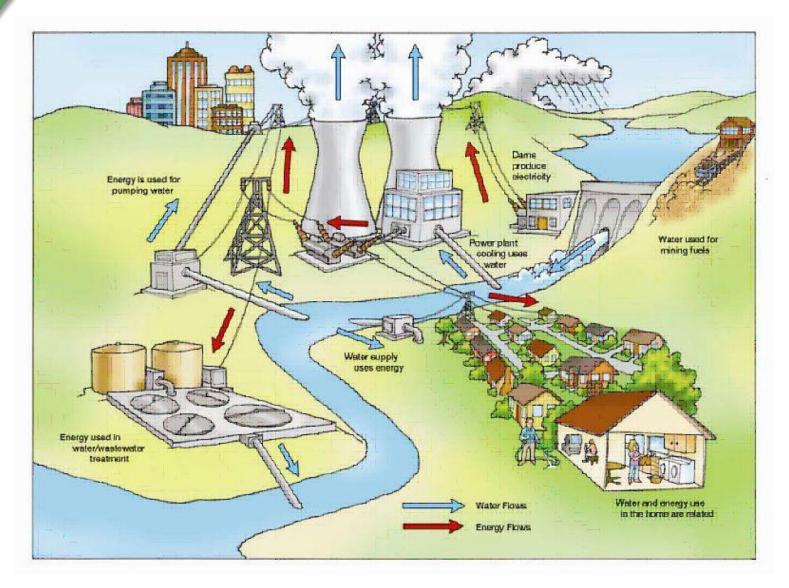
June 2009



WATER-ENERGY GREENHOUSE GAS GUIDANCE



The Water-Energy GHG Nexus





TCR's Water-Energy GHG (WEG) Guidance

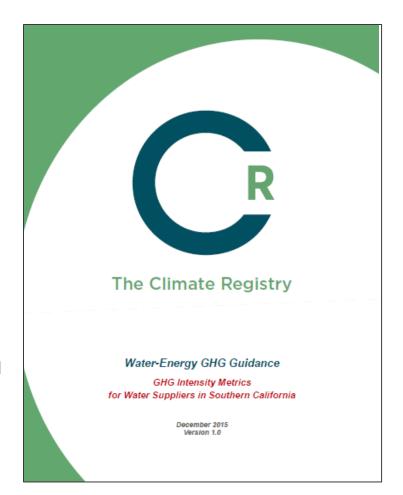
Project Goals:

- Provide a consistent and transparent methodology to quantify the emissions embedded in delivered water
- Allow benchmarking for water suppliers
- Offer a way for suppliers to claim credit for reducing energy use and GHGs associated with water
- Enhance communication of the benefits of WEG reduction efforts to customers



TCR's WEG Guidance

- Sector-specific annex to TCR's General Reporting Protocol
- For TCR members that are water suppliers in Southern CA
- Presents methodology to calculate a series of WEG intensity metrics alongside GHG inventory





The Climate Registry

Thank you!

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