



The Benefits of Addressing the Causes of Climate Change: Mitigation of Greenhouse Gases (GHGs)

U.S. EPA Local Climate and Energy Program

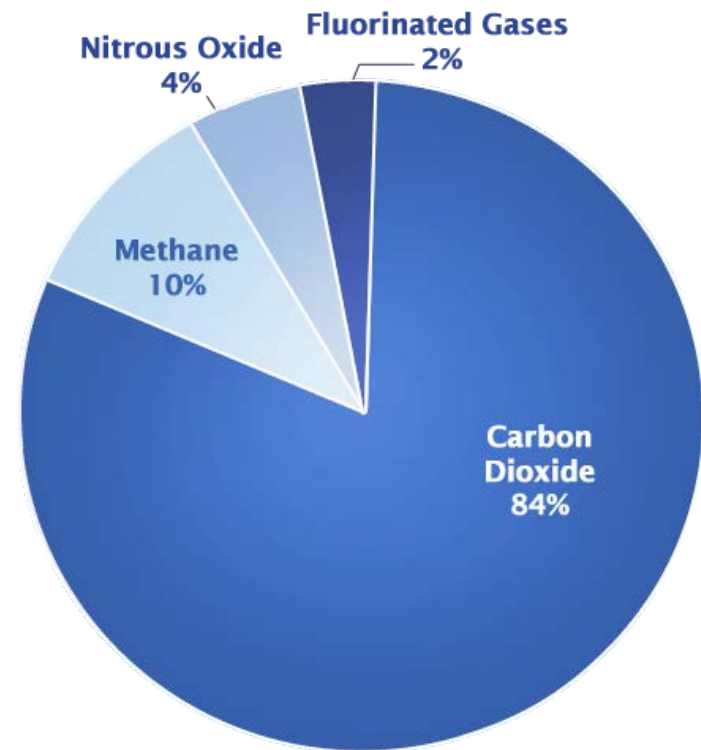
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What is Mitigation?

Reducing or preventing emissions of greenhouse gases (GHGs) such as carbon dioxide, methane, nitrous oxide, and fluorinated gases

U.S. Greenhouse Gas Emissions in 2010

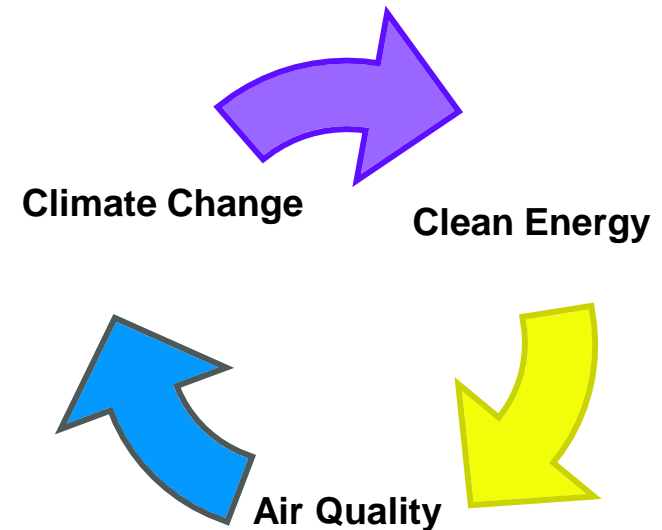


Benefits of Reducing Greenhouse Gas Emissions



What additional benefits can tribes achieve when as part of their greenhouse gas reduction activities?

- Air quality improvements
- Energy security and reliability
- Cost savings from energy use
- Public health improvements
- Quality of life improvements



Planning Steps to Reduce Greenhouse Gas Emissions



These steps can be applied to a specific climate mitigation project or integrated into planning efforts conducted by various tribal departments for priority issues.

- **Engage partners and community**
- **Establish baseline**
- **Set goals and select actions**
- **Plan and implement**
- **Secure funding**
- **Monitor and evaluate**



Strategies to Reduce GHG Emissions



Energy Efficiency and Green Building

- Tribal buildings
- Residential homes
- Manufacturing sites

Alternative Energy

- Solar
- Wind
- Hydropower

Natural Resources

- Solid waste and materials diversion
- Water treatment and transfer
- Land use
 - Forested lands
 - Transportation

Key Resources



Reducing Greenhouse Gases

- Institute of Tribal Environmental Professionals (ITEP) Website - <http://www4.nau.edu/tribalclimatechange/resources/mitigation.asp>
- EPA State and Local Climate and Energy Program - <http://www.epa.gov/statelocalclimate/tribal/index.html>

Energy Resources

- U.S. Department of Energy: Tribal Energy Program - <http://apps1.eere.energy.gov/tribalenergy/>
- U.S. Department of Interior: Tribal Energy and Information Clearinghouse - <http://teeic.anl.gov/>

Tools

- Greenhouse Gas Equivalency Calculator - <http://www.epa.gov/cleanenergy/energy-resources/calculator.html>
- Coming in late fall 2013 – Tribal Greenhouse Gas Inventory Tool

Contact Information



- EPA State and Local Climate and Energy Program
 - <http://epa.gov/statelocalclimate/>
- EPA Tribal Climate and Energy Information
 - <http://epa.gov/statelocalclimate/tribal/index.html>
- EPA Climate Protection Partnership Division
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Poll Question