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URBAN GREENHOUSE GAS INVENTORY

UGHG OVERVIEW

ONLINE TRAINING BY KRISHNAJI PAWAR

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MODULE 2

Accounting and Reporting Principles

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URBAN GREENHOUSE GAS INVENTORY - UGHG OVERVIEW

This presentation covers the accounting and reporting principles for citywide GHG inventories. It also proposes notation keys, a disclosure method that might assist cities in meeting these standards.

Learning Objectives

- Introduction
- Accounting and Reporting Principles
- Setting the Inventory Boundary
- City Actions on Climate Change
- City Climate Planner Program -Organization
- Becoming an UGHG Inventory Specialist
- Summary and Resources

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INTRODUCTION

- A city GHG inventory shall follow the principles of relevance, completeness, consistency, transparency, and accuracy.
- Accounting and reporting for city-wide GHG emissions is based on the following principles, adapted from the GHG Protocol Corporate Standard 3, in order to represent a fair and true account of emissions



CITY GHG INVENTORY PRINCIPLES

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RELEVANCE

Reports should reflect emissions from city activities and consumption patterns. It serves decision-making needs and considers local, subnational, and national regulations.

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COMPLETENESS

Cities must account for all required emissions sources within the inventory boundary. Exclusions must be justified and explained. Notation keys should be used when an emission source is excluded.

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CONSISTENCY

Emissions calculations should be consistent in approach, boundary, and methodology. Any deviation from the preferred methodology should be disclosed and justified.

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TRANSPARENCY

- Adequate documentation and disclosure are required for verification of activity data, emission sources, and accounting methodologies.
- Exclusions must be clearly identified, disclosed, and justified.



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ACCURACY

- The calculation of GHG emissions should not systematically overstate or understate actual emissions.
- It should provide reasonable assurance of the reported information's integrity.

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GLOBAL ENERGY SITUATION ON CLIMATE CHANGE

Global sea-level rise could reach 0.2 to 2.5 m by 2100, potentially leading to the disappearance of 48 islands by the end of the century.

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GLOBAL ENERGY SITUATION AND CLIMATE CHANGE

- Rising levels of greenhouse gases like CO2, methane, and nitrous oxide are causing global average temperatures to rise.
- Surface temperatures have been warmer than in any preceding decade since 1850.
- Between 1880 and 2012, global average temperatures rose 0.85°C.
- Ocean warming accounts for over 90% of the energy accumulated between 1971 and 2010.
- The ocean has warmed most in the water closest to the surface.
- Scientists predict an additional 0.3–0.7°C increase from 2016–2035 and likely exceed 1.5°C between 2081 and 2100.



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