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GREENHOUSE GAS ACCOUNTING SPECIALIST
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URBAN GREENHOUSE GAS INVENTORY

UGHG OVERVIEW

ONLINE TRAINING BY KRISHNAJI PAWAR

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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MODULE 3

Setting the Inventory Boundary

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URBAN GREENHOUSE GAS INVENTORY - UGHG OVERVIEW

An inventory boundary specifies gases, emission sources, time period, and geographic region for a GHG inventory, providing municipalities with a comprehensive understanding of emissions origins and areas for control or change, covering a 12-month period.

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

- Cities establish a physical boundary for the GHG inventory.
- The same boundary is maintained for consistent inventory comparison.
- Boundaries can align with local government administrative boundaries, wards, boroughs, administrative divisions, metropolitan areas, or other geographically identifiable entities.
- Boundary selection is independent of government-controlled buildings or facilities outside the city's boundary.

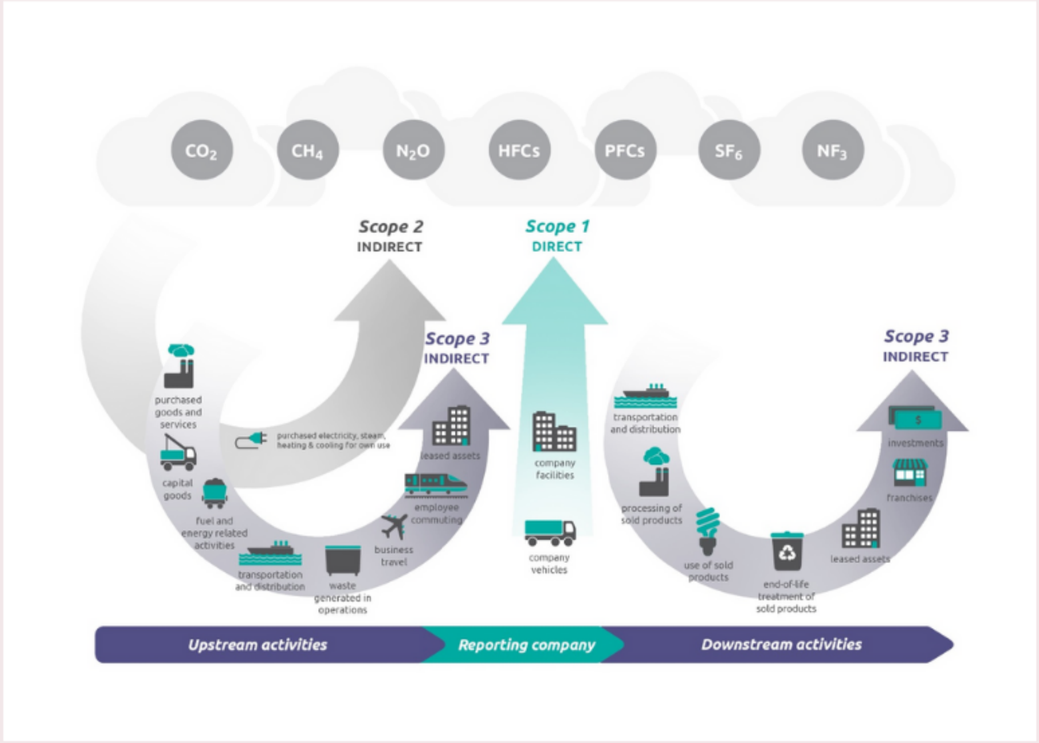
TIME PERIOD

- Accounts for city GHG emissions within a single reporting year.
- Covers a continuous 12 months period, aligning with calendar or financial years.
- Methodologies generally quantify emissions released during the reporting year.
- In certain cases, methodologies may estimate future emissions from activities within the reporting year.



KYOTO PROTOCOL'S GREENHOUSE GAS EMISSIONS

Cities must account for seven gases: CO2, CH4, N2O, HFCs, PFCs, SF6, NF3.





GHG EMISSION SOURCES IN CITY ACTIVITIES

- Stationary energy
- Transportation
- Waste
- Industrial processes and product use (IPPU)
- Agriculture, forestry, and other land use (AFOLU)
- Other emissions outside city boundaries (Other Scope 3).
- Emissions are subdivided into sectors, sub-sectors and sub-categories.



CATEGORIZING EMISSIONS BY SCOPE

- GHG emissions can occur within or outside a city.
- GPC categorizes emissions into three groups: scope 1, scope 2, and scope 3 emissions.
- Scope 1 emissions, also known as "territorial" emissions, occur within the city's boundaries.
- Scope 3 emissions occur outside the city but are driven by city-related activities.
- Scope 2 emissions, supplied by grids, may cross city boundaries.

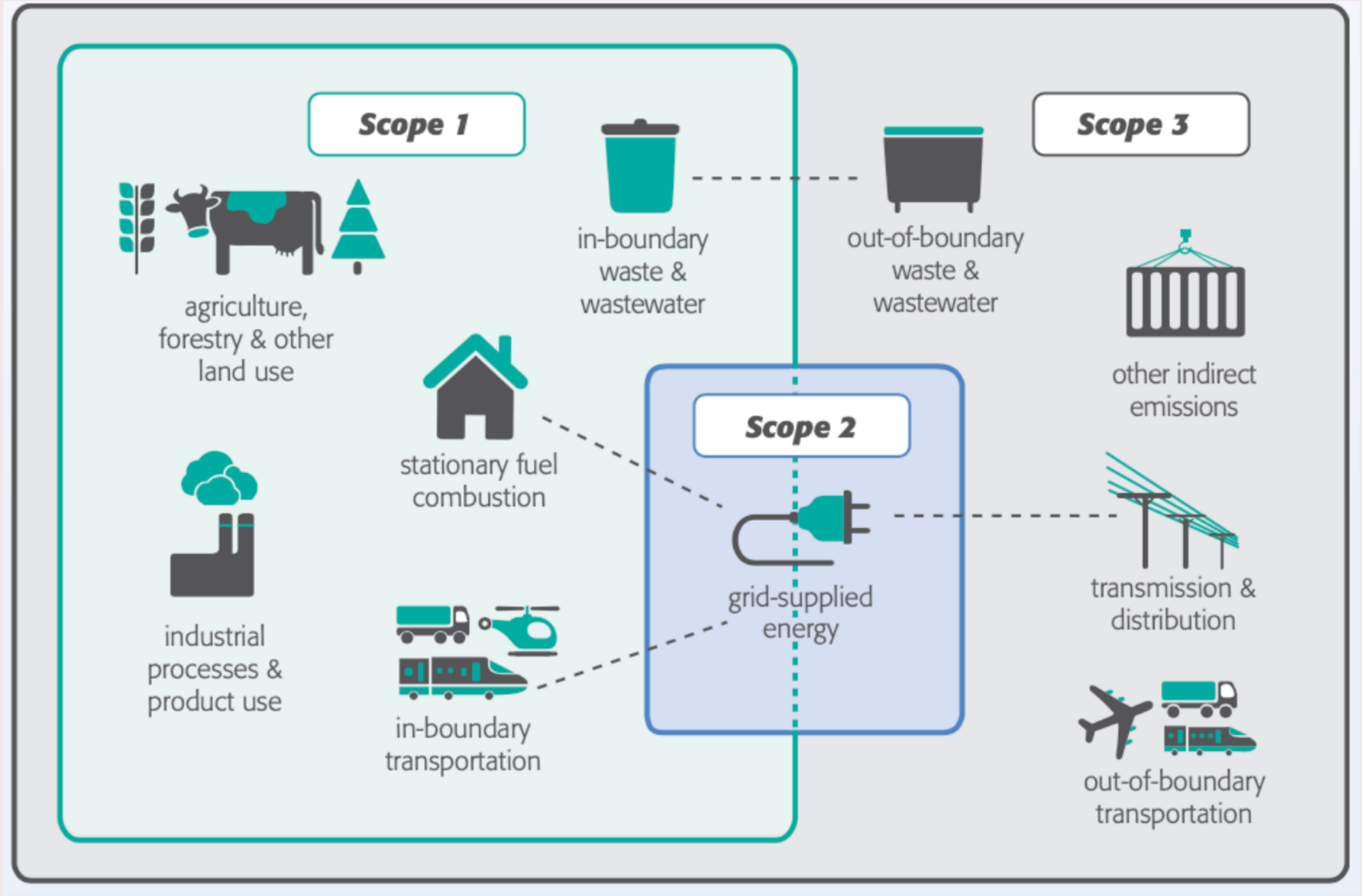


MITIGATION GOAL BOUNDARIES IN CLIMATE ACTION PLANS

- Mitigation goal boundaries may differ from inventory boundaries.
- Cities should align their goal boundaries with the GPC inventory.
- Goals can apply to overall emissions or specific GHGs, scopes, or emission sources.
- Differences between goal and inventory boundaries should be explained to avoid confusion.



SOURCES AND BOUNDARIES OF CITY GHG EMISSIONS



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THANK YOU

