

**DOWNLOAD THE METHODOLOGY:**

[www.climateactiontransparency.org/icat-methodology/buildings-efficiency](http://www.climateactiontransparency.org/icat-methodology/buildings-efficiency)

## ICAT METHODOLOGY SERIES

The Initiative for Climate Action Transparency (ICAT) provides tools and capacity building to support transparent and effective climate action worldwide.

ICAT has developed a series of methodologies to help countries assess the impacts of their policies and actions. They are intended to be used in combination, and each one can also be used on its own.

### Introductory Guide

#### Impact Assessment Methodology

**Greenhouse gas impacts:**

Renewable Energy

Sustainable Development

Buildings Efficiency

Transformational Change

Transport Pricing

Non-State and Subnational Action

Agriculture

Forest

### Process Methodology

Stakeholder Participation

Technical Review

## PURPOSE OF THE METHODOLOGY

To help users assess the greenhouse gas (GHG) impacts of energy efficiency policies in the buildings sector.

- What GHG impacts is a policy likely to have in the future?
- Is a policy on track and delivering expected results?
- What GHG impacts has a policy had to date?

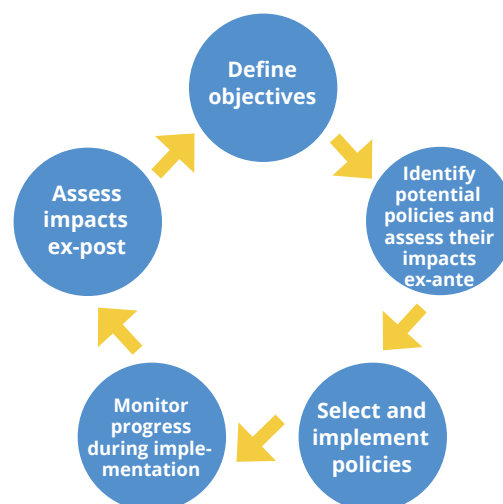
## APPLICABILITY

This methodology is applicable to:

- Regulatory policies (for new buildings):
  - Mandatory building codes
  - Voluntary building codes
  - Minimum energy performance standards for appliances
  - Mandatory labeling, certification and energy audits
- Financial support policies (for new and existing buildings):
  - Direct financial incentives
- Fiscal measures

## WHEN TO USE THE METHODOLOGY

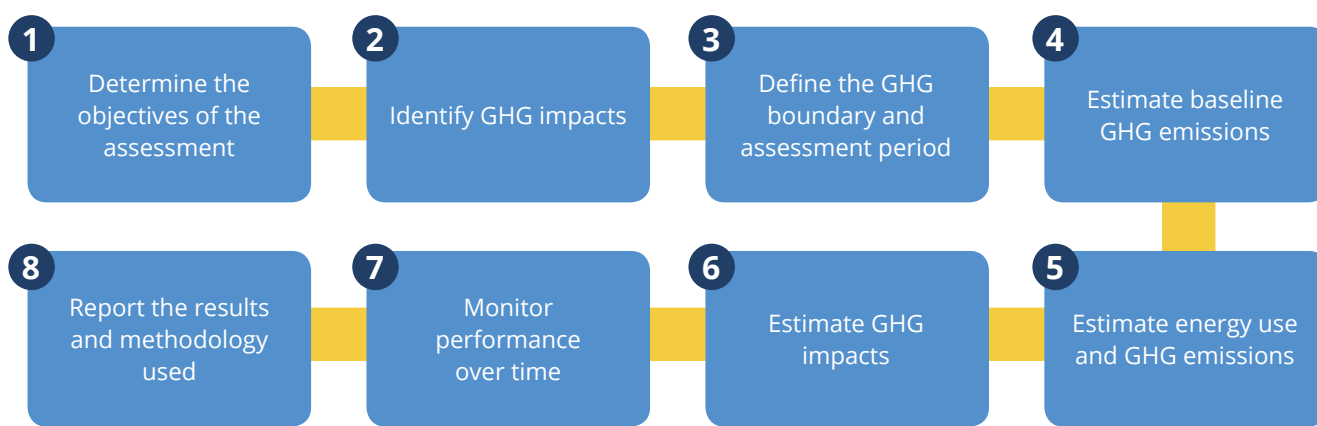
The methodology may be applied before, during and after policy implementation.



## SCOPE OF THE METHODOLOGY

Building Use	Space Heating and Cooling	Appliances Related to Heating, Cooling and Hot Water	Appliances Not Related to Heating, Cooling, and Hot Water	Lighting	Cooking
Residential	✓	✓	✗	✓	✗
Commercial	✓	✓	✗	✓	✗
Public	✓	✓	✗	✓	✗

## STEPS TO USE THE METHODOLOGY



## APPROACH FOR ASSESSING IMPACTS

### BASELINE GHG EMISSIONS

- Number of buildings by building type in climate zone
- Average energy use per m<sup>2</sup>
- Share of energy carrier in fuel mix
- Energy carrier emission factor

### ESTIMATE GHG IMPACTS EX-ANTE

Account for:

- Design characteristics of regulatory policies
- Design characteristics of financial support policies
- Barriers

Estimate GHG impacts

### ESTIMATE GHG IMPACTS EX-POST

- Update baseline GHG emissions
- Estimate policy GHG emissions based on monitored values
- Estimate GHG impacts

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*Note: This version of the methodology will be revised to incorporate examples and learnings from application in various countries during 2018-19. The final version will be published in 2019.*

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