What are the steps:
Set targets and develop policies

Buildings: Session 7

Buildings energy efficiency sessions in partnership with:

BEEP

INDO-SWISS BUILDING ENERGY EFFICIENCY PROJECT

UCL ENERGY INSTITUTE

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Energy Efficiency Training Week: Buildings Program

1. **Where to start:** Understanding energy use in buildings
2. **Where to start:** Energy efficiency potential in buildings
3. **Toolkit:** Energy efficient building design
4. **Toolkit:** Energy efficient building technologies

   Where do I get help? IEA's Technology Collaboration Programmes
5. **Toolkit:** Enabling investment with energy efficiency policies
6. **What are the steps :** Building energy codes and standards

   Site Visit: Schneider Electric
7. **What are the steps:** Set targets and develop policies
8. **Did it work:** Evaluating the multiple benefits of energy efficiency
9. **Did it work:** Tracking progress with energy efficiency indicators

   Where do I get help? International and regional energy efficiency initiatives
10. **Energy Efficiency Quiz:** Understanding energy efficiency in buildings

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7. What are the steps: Set targets and develop policies

Trainers: Brian Dean and John Dulac

Session: 1 hour

Purpose: To teach the fundamentals of how energy efficiency targets and policies can be used in tandem to reduce energy use in buildings and meet energy and development goals.

Scenario: There has been a change of government and the incoming government wants a range of options for interventions to rapidly increase energy efficiency. *How do you identify, prioritise and quantify these policy options?*

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Target Setting

Targets matter

Using roadmaps

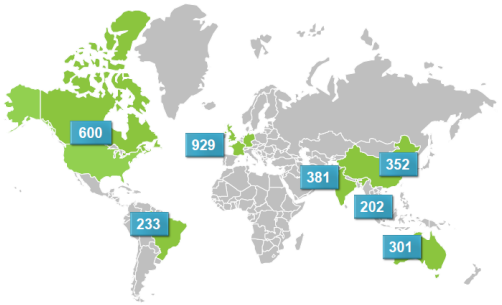
National targets

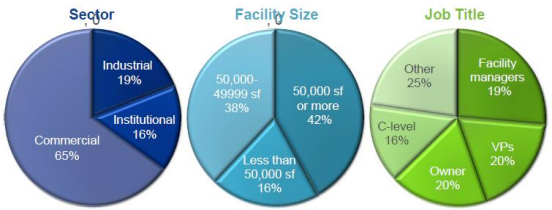


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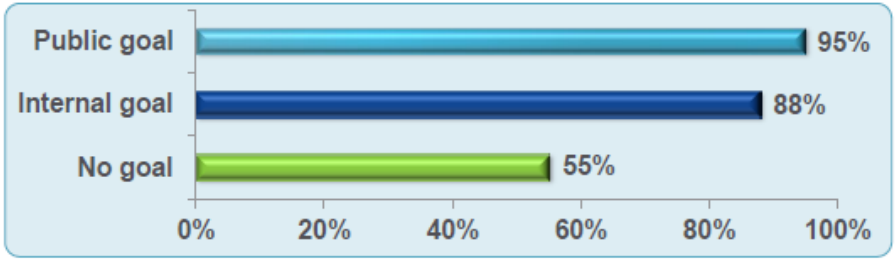
Targets Matter – What is committed (and visible), gets managed

Of over 3,000 respondents from 10 countries….

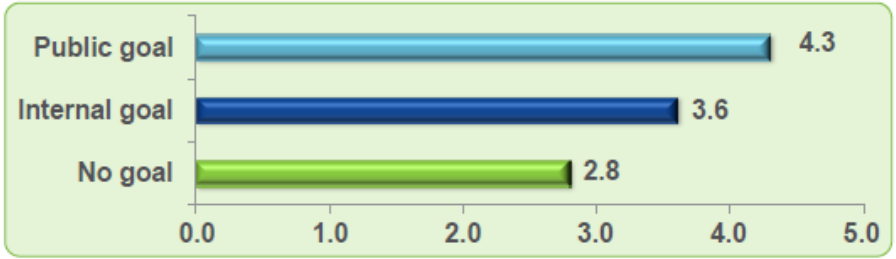




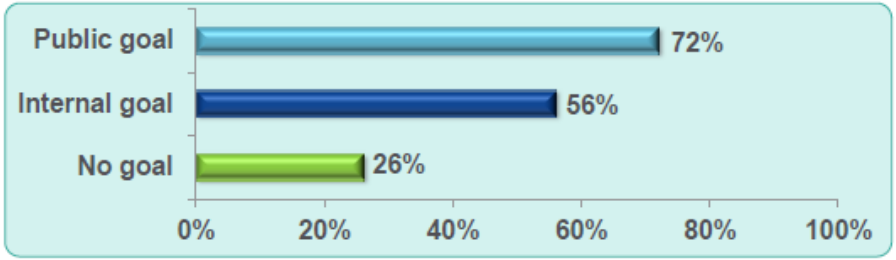
Percent that **have invested** in energy efficiency or renewable energy in past 12 months:



Average number of energy efficiency **measures adopted** in the last 12 months:



Percent that **plan to increase investment** in energy efficiency or renewable energy in next 12 months:

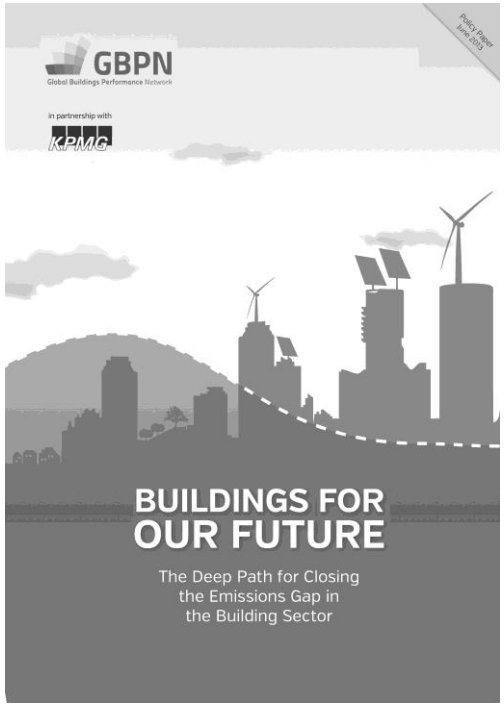


Source: Johnson Controls, 2013 Energy Efficiency Indicator Survey

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Target setting: Using roadmaps

Global Policy Priorities



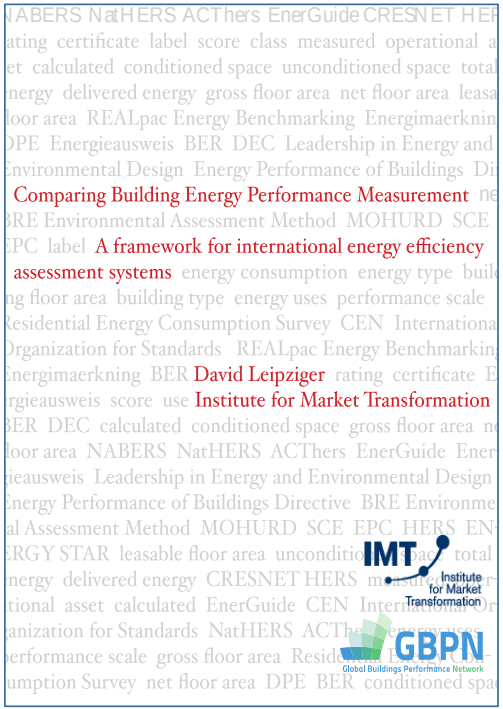
NZEB Roadmaps: Eastern EU



BPIE BUILDINGS PERFORMANCE INSTITUTE EUROPE



Rating & Disclosure: USA



Source: GBPN

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Target setting: roadmap example in Mexico



Source: www.gob.mx/documentos/marco-programatico?idiom=es

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Target setting: example in Jakarta, Indonesia

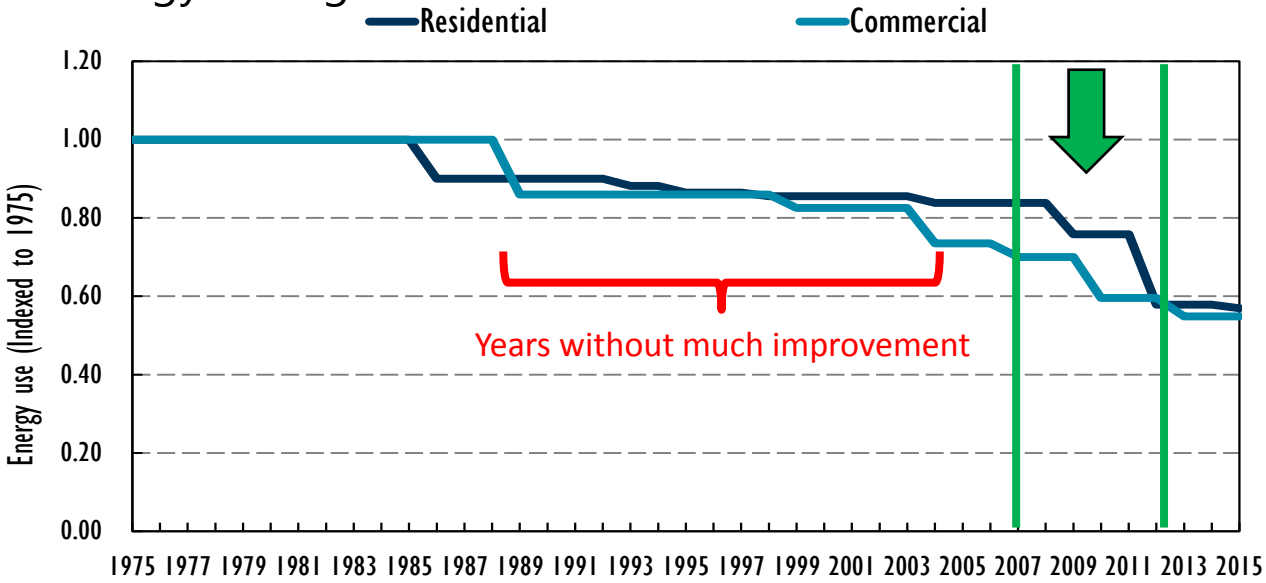


Source: http://greenbuilding.jakarta.go.id/index-en.html

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Target setting: Building code targets in the United States

- In 2007, US Congress directed US DOE to support efforts to reduce energy use in new buildings by at least 30% by 2010.
- In October 2010, final voting confirmed code improvements that resulted in 32% energy savings.



2007 Target: **resulted in 32% improvement.** More energy savings than any period since 1975.

Source: US DOE and IEA Energy Efficiency Market Report

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Target setting: national targets in the EU

Europe Energy Performance of Buildings Directive

- Moving toward new and retrofitted nearly-zero energy buildings by 2020 (2018 in the case of public buildings)
- Application of a cost-optimal methodology for setting minimum requirements for both the envelope and the technical systems

Europe Energy Efficiency Directive

- The 2012 Energy Efficiency Directive established a set of binding measures to help the EU reach its 20% energy efficiency target by 2020.
- Individual country level regulations and targets

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Policy Making

Stakeholders

Group exercise



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Who: Stakeholders involved in governance of buildings



Source: WRI, 2016, Accelerating Building Efficiency: Eight Actions for Urban Leaders

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Who: Stakeholders influence action across building lifecycle

NEW BUILDINGS			EXISTING BUILDINGS				
 Land Use/ Planning	 Design	 Construction	 Sale or Lease	 Tenant Build-Out	 Operations & Maintenance	 Retrofit	 Demolition & Deconstruction
Local governments Developers and self-help builders	Design & construction professionals National and provincial governments Local governments	Design & construction professionals Building investors Suppliers & manufacturers	Buildings owners and managers Developers and self-help builders Building occupants	Buildings owners and managers Building occupants Design & construction professionals	Buildings owners and managers Energy utilities Building occupants	Buildings owners and managers Building investors Building occupants Design & construction professionals	Design & construction professionals Buildings owners and managers

Source: WRI, 2016, Accelerating Building Efficiency: Eight Actions for Urban Leaders

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Group discussion and exercise

Scenario:

There has been a change of government and the incoming government wants a range of options for interventions to rapidly increase energy efficiency.

How do you identify, prioritise and quantify these policy options?

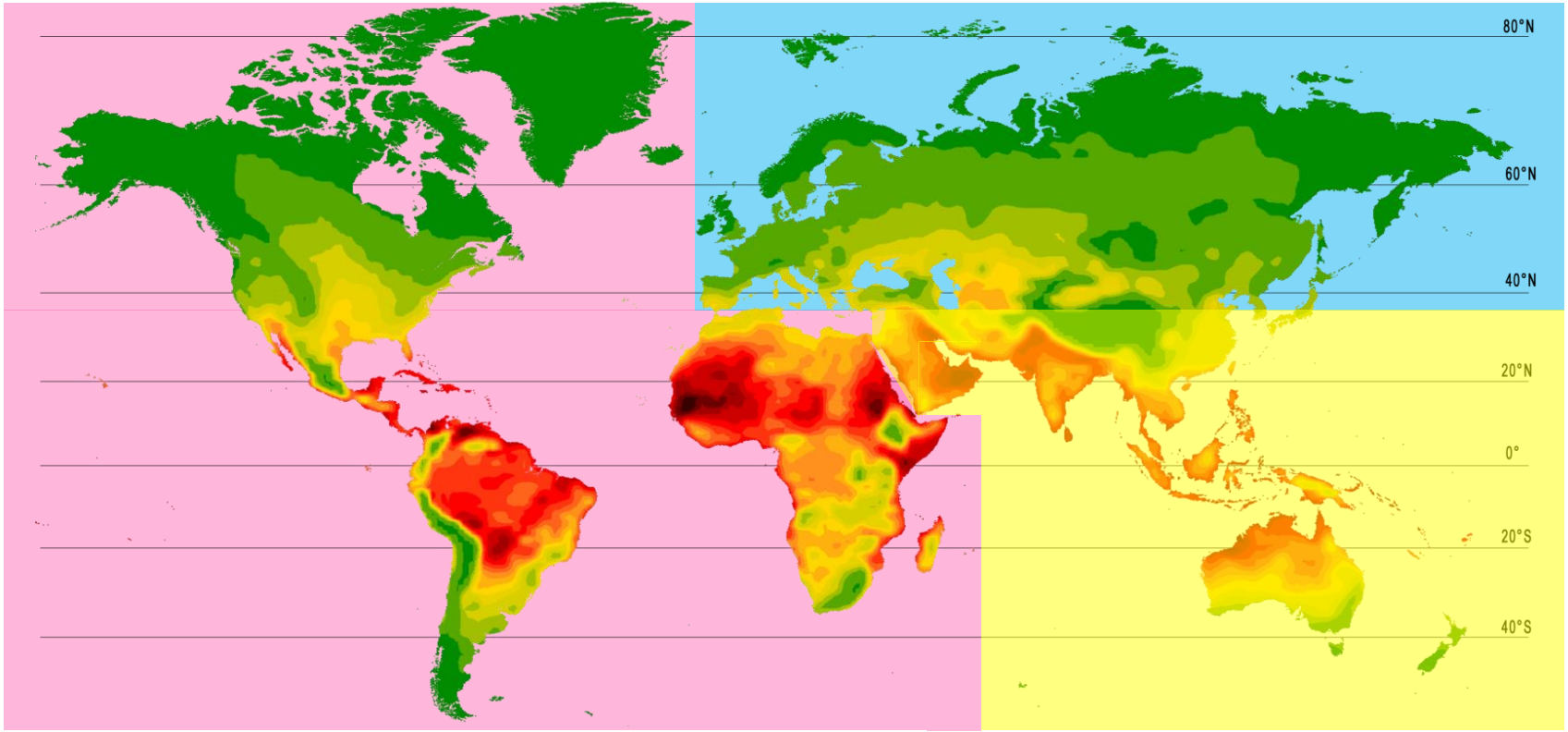
Group Exercise:

- *You have the opportunity to consult with key stakeholders on prioritising energy efficiency policies for buildings.*
- *We will use a platform created to engage stakeholders on energy efficiency.*

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Stakeholder engagement: hands on tool for policy assessment

Roles



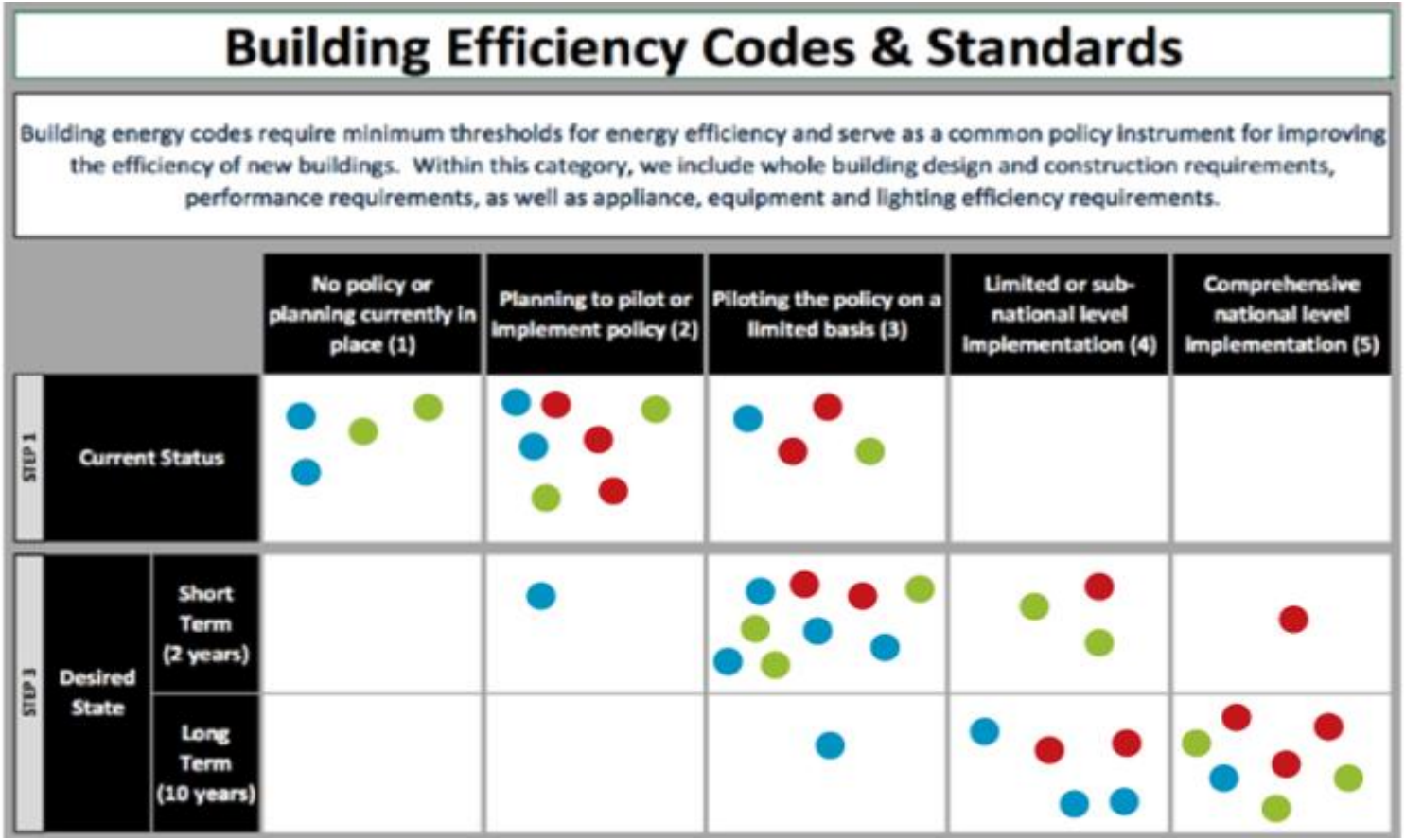
Typically we set roles by stakeholder type (such as consumers, industry, government), but today we will do it based on the geographic representation in the room.

Source: Institute for Building Efficiency, WRI

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Stakeholder engagement: hands on tool for policy assessment

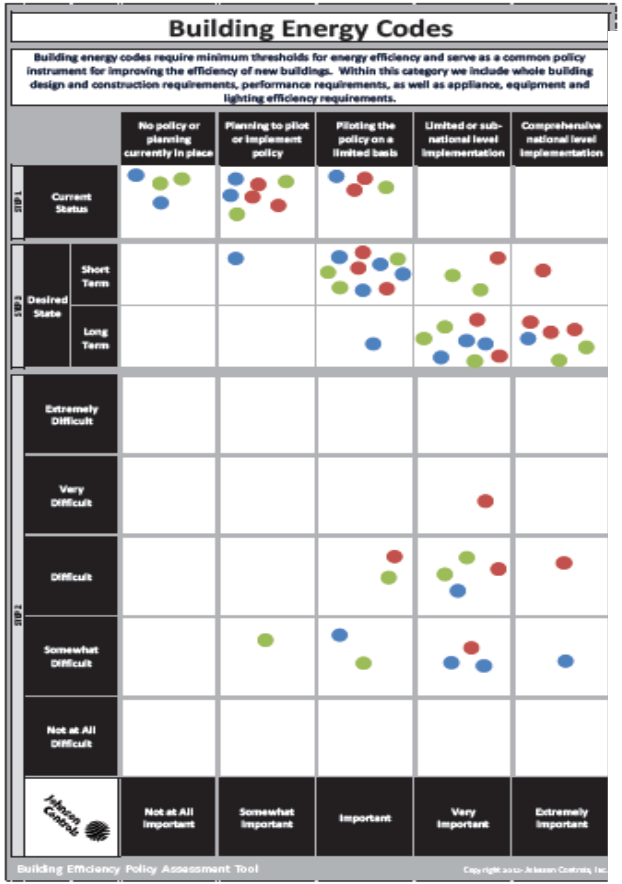
Sample

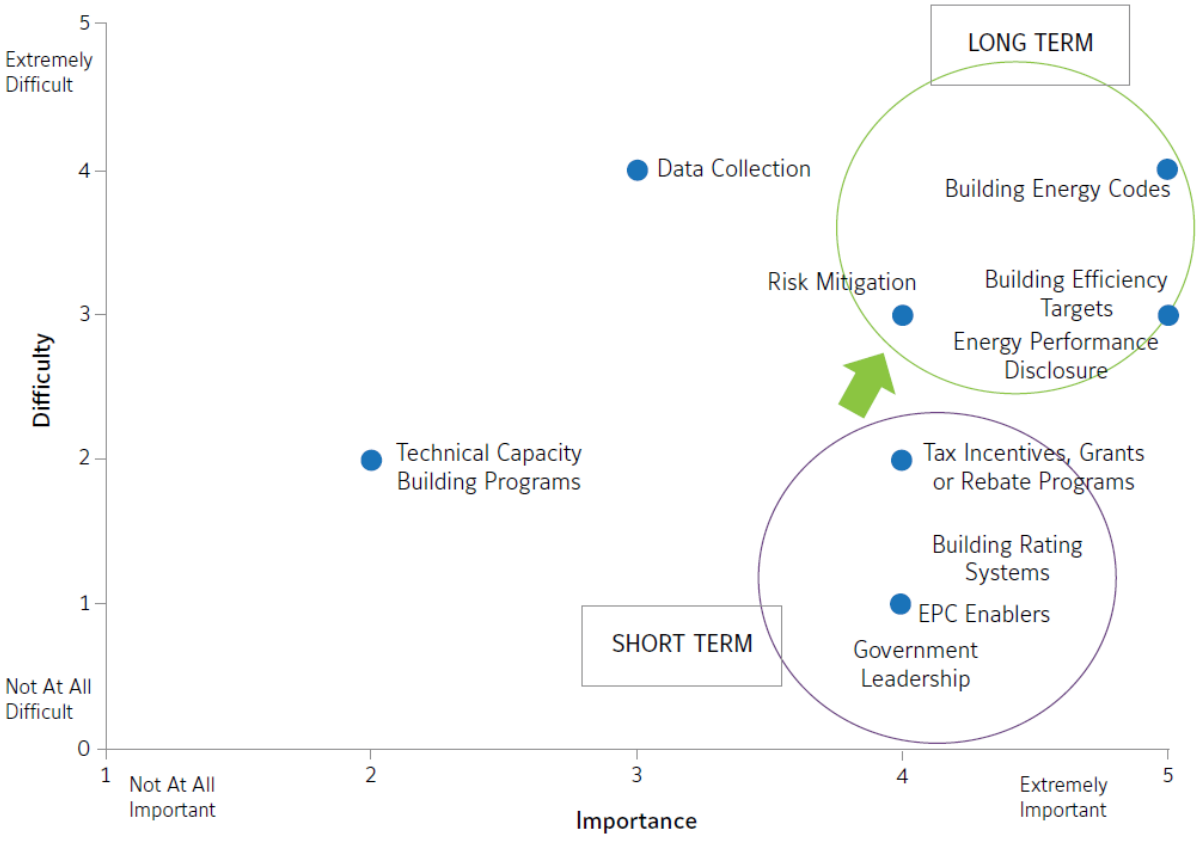


Source: Institute for Building Efficiency, WRI

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Stakeholder engagement: hands on tool for policy assessment



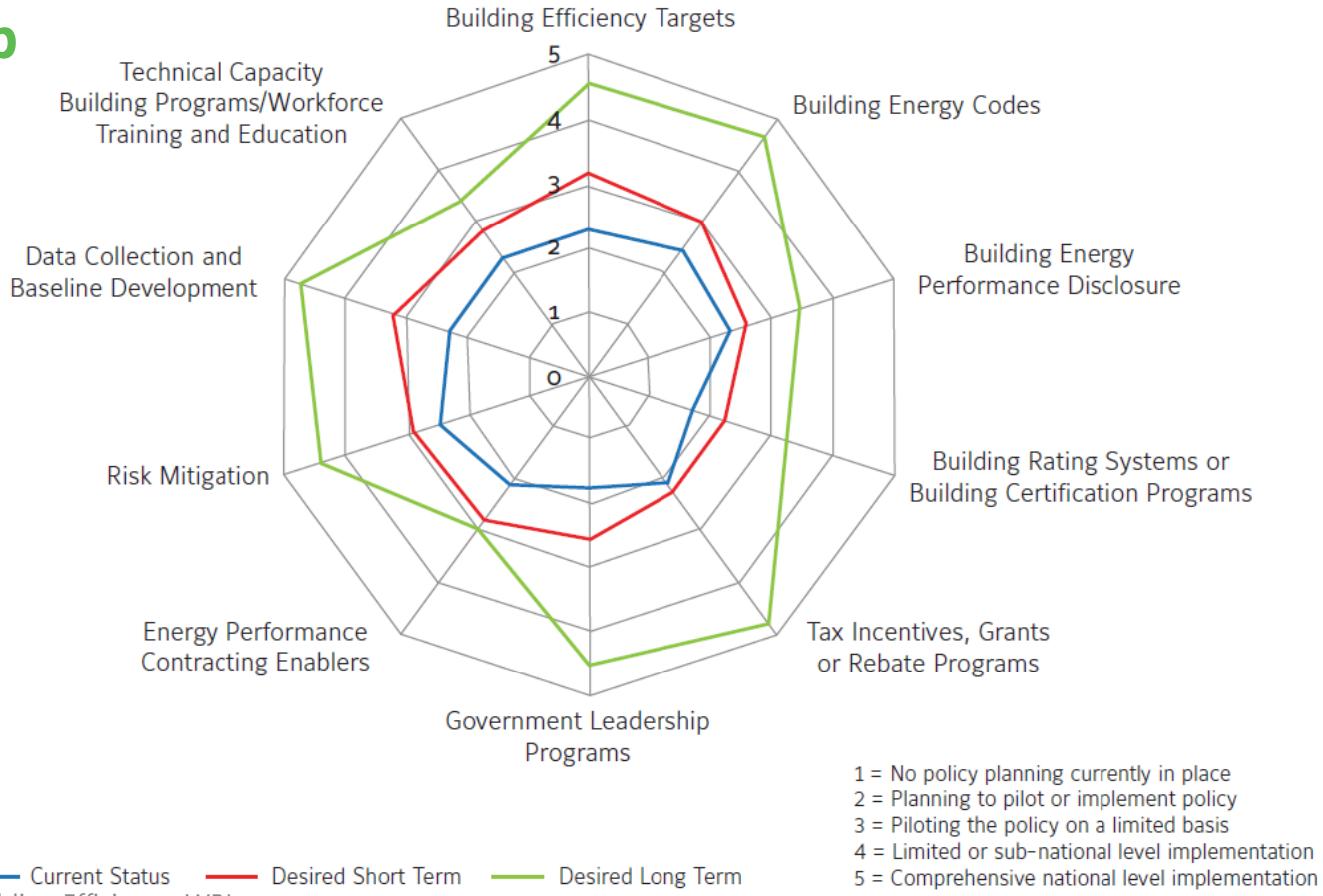


Source: Institute for Building Efficiency, WRI

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Stakeholder engagement: hands on tool for policy assessment

Policy map



Source: Institute for Building Efficiency, WRI

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