The trainers

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Introductory roundtable

Introduce yourself!
Name, country, organisation

What is the most interesting thing you learned from the previous sessions
How the session will work

1. Introduction to the subtopics
2. Setting the level of ambition: what are we trying to achieve?
3. Where are we today & institutional arrangements
4. Tracking progress
5. Identifying & communicating the multiple benefits
6. Identifying the Key Actions

**Fill in templates** for:
- map of targets
- Policy radar map
- key actions
1. Introduction to the subtopics

Policy implementation and Tracking progress

This module will cover the policy implementation process, and strategies for tracking progress and measuring success.

- Setting the vision
- Establish current policy status
- Assess policy importance and difficulty in implementation
- Determine the short and long-term priorities
- Next steps and action planning

Source: Institute for Building Efficiency, WRI
2. Setting the level of ambition: what are we trying to achieve?

- Setting the vision:

  “If we transported ourselves ten years into the future and were interviewed by a reporter, what would we like to say we had accomplished because of enacting new building efficiency policies?”

  “...And what about in 30 years time?”
3. Where are we today - activity

1) What buildings related policies and targets does your country have in place?

- Write them on the relevant sheet
- Don’t worry if you can’t think of them all at once, write what you can think of
- Specify:
  - What sector? Is it mandatory? Voluntary?
  - National, state or city level?
  - Any short/medium/long term targets?
Table of policies

<table>
<thead>
<tr>
<th>Name of policy</th>
<th>Mandatory or Voluntary?</th>
<th>Scope</th>
<th>Scale</th>
<th>Target</th>
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<tr>
<td>Sector level target</td>
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<td>Timeframe</td>
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</table>
3. Where are we today - activity

2) Map the status of each of these key policies from 0 to 5:

1. Building codes
   Can be mandatory or voluntary, and can refer to other documents such as standards. Stipulate minimum standards for thermal performance of envelope, and other features affecting energy efficiency and thermal performance.

2. Building certification
   Rating system to differentiate more efficient buildings from less efficient buildings.

3. MEPS for key appliances
   Minimum energy performance standards for key appliances such as ACs, lighting, white goods etc.

4. Information and awareness
   Campaigns or mechanisms to promote awareness about the benefits of more efficient appliances or buildings.

5. Procurement
   Bulk or energy efficient procurement to increase market demand for efficient products.

6. Benchmarking
   A standardised methodology for assessing the efficiency of buildings of similar types.

7. Disclosure
   Mandating buildings to disclose their energy consumption. Can be compared to a benchmark to determine whether it is more or less efficient than the average.

8. Incentives for efficient buildings
   Incentives such as tax rebates for particularly efficient buildings, or non-financial incentives such as expedited permitting or height or area bonus allowances.
3. Where are we today - activity

3) Now fill in your Policy Radar Map for all 8 policies
   - Nodes are policies, picked from list on previous slide
   - Use the coloured pens available to define a legend for Adopted / Enforced / Monitored
   - Scores as described by the table below
   - Record your observations in the field at the bottom of your sheet – did anything surprise you?

<table>
<thead>
<tr>
<th>Score:</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<tbody>
<tr>
<td>Adopted</td>
<td></td>
<td></td>
<td>&lt;-</td>
<td>In place for approx. half scope (of buildings, system types or sizes etc)</td>
<td>&lt;-</td>
</tr>
<tr>
<td></td>
<td>None currently in place</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enforced</td>
<td>Not at all</td>
<td>&lt;-</td>
<td>Enforced for approx. 50% scope</td>
<td>&lt;-</td>
<td>Comprehensive national level enforcement</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Monitored</td>
<td>Not at all</td>
<td>&lt;-</td>
<td>Monitored for approx. 50% scope</td>
<td>&lt;-</td>
<td>Comprehensive national level monitoring</td>
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</table>
Where are we today - activity

3) Who is responsible for what
   
   - What gaps did you identify from your policy radar map?
   - Who do you think is responsible for them?
   - How might national & subnational level governments best coordinate?
Coffee break
The policy implementation cycle

Key stakeholders in the policy process include:
- national and sub-national governments;
- product manufacturers,
- suppliers and installers;
- building designers,
- constructors, owners and operators;
- financial lenders and guarantors;
- data collectors, evaluators and statisticians;
- and sustainability researchers, advocates and advisors.

Need a plan of goals and indicators to measure progress.
4. Tracking progress

- **Stage 0**: Commitment (Will)
- **Stage 1**: Assessment (What)
- **Stage 2**: Development (How)
- **Stage 3**: Implementation (Do)
- **Stage 4**: Improvement (Build upon)

*For continuous improvement*
## Goals and indicators

<table>
<thead>
<tr>
<th>Stage</th>
<th>Goal type</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>0. Commit</td>
<td>• Obtain commitment from government</td>
<td>• BEA Partnership Agreement signed by city executive</td>
</tr>
</tbody>
</table>
|           | • Publicly communicate city’s commitment to act | • Commitment announced by city during kick-off event/workshop  
|           | | • # media hits on the commitment/initiative |
| 1. Assess | • Collect building energy use and data | • # buildings and % of relevant portfolio for which complete energy and use data is collected  
|           | | • # data sources collected and reviewed |
|           | • Select action priorities | • Priorities and work plan approved by leadership |
| 2. Develop | Regulation/incentive  
|           | • Technical study completed  
|           | • Draft policy developed  
|           | • Stakeholder support for policy obtained  
|           | • Adopt policy | • # comments received on draft policy  
|           | | • # of advisory sessions  
|           | | • # stakeholder organizations in support (by specific audience/sector)  
|           | | • Policy adopted  
<p>|           | | • estimated # buildings improved/energy saved/$ investment costs from policy |</p>
<table>
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<th>Goal type</th>
<th>Indicators</th>
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</thead>
<tbody>
<tr>
<td>3. Implement</td>
<td>Regulation/incentive</td>
<td>• # full-time equivalent staff and/or $ budget assigned to policy</td>
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<tr>
<td></td>
<td>• Policy implementation guidelines developed and implemented</td>
<td>• # outreach/training efforts provided and # of people informed/trained</td>
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<td>• Support for policy implementation provided</td>
<td>• # buildings using policy process</td>
</tr>
<tr>
<td></td>
<td>• Policy impact measured</td>
<td>• Resulting energy saved/carbon reduced/pollution avoided/jobs created/$ cost saved/$ invested/$ economic development (direct/indirect)</td>
</tr>
<tr>
<td>4. Improve</td>
<td>• Identify actions to improve implementation or increase ambition of existing effort</td>
<td>• Estimated energy savings (kWh) and other priority benefits resulting from identified actions</td>
</tr>
<tr>
<td></td>
<td>• Identify new actions to build upon existing ones</td>
<td>• Re-commitment to improvement and setting updated goals obtained from leadership</td>
</tr>
<tr>
<td></td>
<td>• Commit to improvement and setting new goals (start a new cycle at Stage 1. Assess)</td>
<td>• Staffing and budget dedicated to policy/program implementation</td>
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<tr>
<td></td>
<td>• Institutionalize the policy/program into government practices, budgets, etc.</td>
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Example: Rajkot (India) Green Buildings Policy

- **Commitment**: Implementation of the Green Buildings policy in Rajkot, India developed in 2016-2017

**Stage 0. Commit**
- Commitment to a sustainable city through the promotion of sustainable buildings

**Stage 1. Assess**
- Assess baseline situation in consultation with local stakeholders to establish policy priorities

**Stage 2. Develop**
- Develop a green buildings policy with inputs from stakeholders

**Stage 3. Implement**
- Final policy approved by local government; and creating awareness on meeting compliance and benefits

**Stage 4. Improve**
- Policy incorporated into building rules/regulations; informed policy amendments based on on-ground learning

**Goals**
- Signing of statement of intent with BEA
- Public announcement of government intent through kick-off workshop

**Indicators**
- # of stakeholder meetings to discuss the baseline and identify needs
- Finalized policy priority for further development
- # and types of local and national organizations involved in consultations to develop the policy scope and implementation mechanism
- Training programs, awareness campaigns
- Online portal for streamlining compliance
- # of builders signing-up for supporting the policy roll out
- % of buildings complying
- Online tracking of compliance, periodic policy review, consultation with experts and stakeholders
5. The multiple benefits

- Energy efficient prosperity: EE as a means to support economic and social development
The benefits by perspective

- Owner and occupant
- Societal / macroeconomic
- City and national / public budgets
- Industry / energy provider
Multiple benefits: for individuals

- 50% reduction in electricity consumption and a more comfortable place to live

Source: Green Building Council – South Africa
Multiple benefits: for students

Students’ test scores: shows ~20–26% faster learning
**labor productivity**: increase by 6–16%

**students’ test scores**: shows ~20–26% faster learning

**Influenza and cold rates**: can decrease by as much as 20%, resulting in a USD10 bln/yr savings in US alone

- reduced respiratory disease;
- reduced allergies and asthma;
- reduced sick building syndrome;
- direct improvements in worker performance unrelated to health

**Employment (local job creation)**: Danish trade union study finds 100% increase in employment intensity than for other mitigation options
6. Key actions

- Drawing on the timelines from the roadmap, what are the key actions needed to support them:
  - Adoption
  - Enforcement
  - Monitoring
  - Tracking progress
  - Stakeholder engagement
Thank you!