SETTING TIMELINES AND TARGETS

Ian Hamilton

Singapore, 16-18th July 2019
Setting Timelines and Targets

• Buildings play a dominant role in the clean energy transition and are a key part of a sustainable development.

• To enable the delivery of buildings and infrastructure provides an opportunity to tackling the central challenges facing the global and local community, it is vital that there is a clear plan and pathway forward.
Target Setting

Targets matter
Using roadmaps
National targets
Target setting

“What if we don’t change at all ... and something magical just happens?”
Target setting
Target setting

• Setting a target is not about guessing what you can achieve.

• It involves knowing where you are now, what you are trying to achieve, and determining challenging but realistic amounts of improvement needed to get there.
Target setting: the process

- **Targets:** the desired level of performance you want to see, as measured by indicators, that represents success at achieving your outcome.

- **Stretch Target:** challenging but realistic target should be able to reach with some effort
Target setting: the process

- **Specific**: what you plan to achieve is clear
- **Measurable**: there is a way to determine whether or not you have achieved it
- **Attainable**
- **Relevant**
- **Timeframe** is specified
Step 1: Define where you are now

- **Method 1 — Use Historical Data**
  - It can be helpful to use data that your unit has already gathered to establish a baseline, or starting point, for your target.

- **Method 2 — Use External Sources**
  - When you do not have historical data, you might consider using information from outside data sources to benchmark, or compare your performance data with those of other comparable settings / sectors. Then set targets that seem reasonable in light of the benchmarking information you’ve gathered.

<table>
<thead>
<tr>
<th>EFFECTIVENESS TARGET</th>
<th>OUTCOME TARGET</th>
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<tbody>
<tr>
<td><strong>Within two years, 80%</strong> of building permits issued will be offered incentives for achieving a stretch code.</td>
<td>90% of buildings will implement the latest green building standards by beginning of the next code improvement cycle.</td>
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</tbody>
</table>
**Target setting: the process**

**Step 2: Define what you want to achieve and by when**

- Setting a target and its timeline is a delicate balance between challenging and realistic.

- A stretch target is intended to "raise the bar" so as to inspire people, but must also be capable of being met with through skills, knowledge, and resources.

- "Stretch" targets usually requires significant effort to achieve. Ask yourself how much of a stretch will motivate without causing people to become overwhelmed or demoralized.

*N.B. It's important to carefully evaluate the historical data you're considering using as your target baseline. Review past data and drivers that influenced those trends. Consider any circumstances that should inform your target.*
Target setting: the process

Step 3: Things to consider

• **Timeline**: Be clear about how long you need to achieve your target. Will you need to set intermediary targets?

• **Scenario**: Conditions will be changing over the course of the policy development cycle and this will be important for setting the recent trends and baselines in the preceding years.

• **Possible Target**: Set the target as it relates to change you are focused on achieving and by what end point (e.g. X% of appliance sales achieving best available technology (BAT) by 2025).

• **Resources**: Do you have the necessary resources needed (funding, staff, processes, buy-in, etc.) to achieve the target?

• **How can it be achieved?** Can it be achieved by incentives, regulations, standards or certificates, more resources, improving a process, an investment in technology?
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:

- Public goal: 95%
- Internal goal: 88%
- No goal: 55%

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

- Public goal: 4.3
- Internal goal: 3.6
- No goal: 2.8

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

- Public goal: 72%
- Internal goal: 56%
- No goal: 26%
Target setting process

**Stakeholders engagement**
- Information collection: opportunity to gain feedback on needs and goals
- Consensus building: while not everyone will agree, effective stakeholder engagement processes will build trust

**Data and information**
- Information collection: building on the information from stakeholders
- Market analysis: to understand the current market conditions and opportunities

**Develop a roadmap**
- Targets and timelines: setting achievable and aspirational targets and timelines to progress on energy efficiency policies
- Methods and key actions: identifying the tools and resources to make the targets achievable
Target setting process

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Target setting: example in Jakarta, Indonesia

VISION

To be
The Center of Excellence of Green Building implementation in Indonesia.

MISSION

100% new buildings
and
60% existing buildings
meet Jakarta Green Building compliance in 2030

GOAL

3.785 GWh
energy saving
2.4 billion liters
water saving
3.37 million tons
CO₂e
CO₂ emission reduction
Roadmaps for Buildings and Construction

Setting targets for a zero-emission, resilient and efficient buildings and construction sector
### Methodology and template:

- A template has been created for use by any organisation or government.
- Based on work through the Global Alliance for Buildings and Construction (GlobalABC).
- To enable the development of meaningful targets and timelines to achieve low-emission, efficient and resilient buildings and construction.

### Buildings and Construction Roadmap template

<table>
<thead>
<tr>
<th>Category</th>
<th>Short-term (2030)</th>
<th>Medium-term (2040)</th>
<th>Long-term (2050)</th>
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<tbody>
<tr>
<td>Urban planning</td>
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### 8 main actions:
- Urban planning
- New buildings
- Existing building retrofits
- Existing building operations
- Systems
- Materials
- Resilience
- Clean energy

### 2 supporting sections:
- Multiple benefits
- Capacity building
### Each of the 8 main actions include:

- Key actions
- Stakeholders
- Policy
- Technology
- Finance
- Capacity building
- Multiple benefits

### Each category includes:

- Current status
- Achievable targets
- Aspirational targets

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Roadmap for Buildings and Construction

Set targets for:

- Urban planning
- **New buildings**
- Building retrofits
- Building operations
- Systems
- Materials
- Resilience
- Clean energy

All new buildings to achieve:

- (Nearly) net zero operating emissions
- Energy system-level net zero emissions

Achieve these through:

- Decarbonisation targets
- Thermal regulations
- Incentives
- Mixed use buildings
- Building passport
- Building and system commissioning
- Technology and knowledge transfer
Roadmap for Buildings and Construction

Set targets for:
• Urban planning
• New buildings
• Building retrofits
• Building operations
• Systems
• Materials
• Resilience
• Clean energy

[Table and diagram]

Key actions

Develop and implement mandatory codes. Transition from voluntary to mandatory codes that set the minimal efficiency in new buildings.

Strengthen building codes. Ensure that there is a building code improvement cycle that strengthens the performance requirements every 3-5 years with aspirations of achieving zero emission and net zero energy codes.

Integrate renewable energy in new building design. Achieve net zero emissions or net zero energy through the integration of renewable energy.

Enable sustainable building investments. Enable increasing design and construction of sustainable buildings by increasing access to and use of finance to enable private investment.

Governments lead by example. Develop policies that ensure all new government buildings are low-emission and efficient.
## Roadmap for Buildings and Construction

### Set targets for:
- Urban planning
- **New buildings**
- Building retrofits
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<tbody>
<tr>
<td><strong>Building codes</strong></td>
<td>X countries with voluntary or mandatory codes</td>
<td>Achieve: X% net zero ready code</td>
<td>Achieve: X% net zero ready code</td>
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<tr>
<td><strong>Building certification</strong></td>
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<td>Achieve: X% mandatory</td>
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<td><strong>Building passports</strong></td>
<td>Widespread voluntary and silo information collection</td>
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<td>Achieve: X% building passports</td>
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# Roadmap for Buildings and Construction

**Set targets for:**
- Urban planning
- **New buildings**
- Building retrofits
- Building operations
- Systems
- Materials
- Resilience
- Clean energy

## Envelope technologies

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<td>Achieve: X W/m² OTTV</td>
<td>Achieve: X W/m² OTTV</td>
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<td>≤ X W/m²°C hot climate</td>
<td>≤ X W/m²°C cold climate</td>
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<td></td>
<td>Exceptional: ≤ X W/m²°C</td>
<td>≤ X W/m²°C hot climate</td>
<td>≤ X W/m²°C cold climate</td>
<td>≤ X W/m²°C hot climate</td>
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<td>Windows (thermal)</td>
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Roadmap for Buildings and Construction

Phase 1 (2018-2020)
- Roadmap methodology and template
- Global roadmap 2020-2050
- Africa roadmap 2020-2050
- Asia roadmap 2020-2050
- Latin America roadmap 2020-2050

Phase 2 (tbd)
- Australia and South Pacific
- Europe
- North America
- Russia
Stakeholder engagement:

• **Goal 1. Ambition for targets and timelines:** Review the roadmap approach, global roadmap working document and discuss achievable and aspirational targets and timelines within the region and potential sub-regional variances to targets and timelines.

• **Goal 2. Approaches for achieving targets and timelines:** Review the draft regional roadmap and conduct stakeholder consultation on policy approaches, technology needs and capacity building needs for achieving the targets and timelines.

• **Goal 3. The business case for achieving targets and timelines:** Review the draft regional roadmap and conduct stakeholder consultation on the multiple benefits of sustainable buildings and the ability to enable investment that can achieve the targets and timelines.
Thank you!