

# What are the steps:

## Target setting

Municipal and Utility Services: Session 5 John Dulac, Deepak Krishnan & Kajol New Delhi 11 December 2018



#energyefficientworld

### Energy Efficiency Training Week: Municipal and Utility Services



- 1. Where to start: Energy use in municipalities
- 2. Where to start: Energy efficiency potential in municipalities
- 3. Toolkit: Energy-efficient municipal planning
- Toolkit: Energy-efficient technologies
   Where do I get help? IEA's Technology Collaboration Programmes
- 5. What are the steps: Implementing energy efficiency programmes target setting
- 6. What are the steps: Implementing energy efficiency programmes implementation
- 7. What are the steps: Enabling public energy efficiency investment
- 8. What are the steps: Enabling private energy efficiency investment Special session: Multiple benefits of energy efficiency for municipalities
- Did it work: Evaluation and energy efficiency indicators
   Special session: International and regional initiatives that can help
- 10. Energy Efficiency Quiz: Understanding energy efficiency in municipal and utility services

### Energy Efficiency Training Week: Municipal and Utility Services



### 5. What are the steps: Energy efficiency programmes - target setting

Trainer(s): John Dulac

**Purpose:** To teach how energy efficiency targets and policies can be used to achieve both energy-saving and development goals.

**Scenario:** A prominent NGO is challenging your targets as not being aggressive enough.

**Question:** How do you identify, quantify, and prioritise energy efficiency programmes and set appropriate targets?

### Energy Efficiency Training Week: Municipal and Utility Services



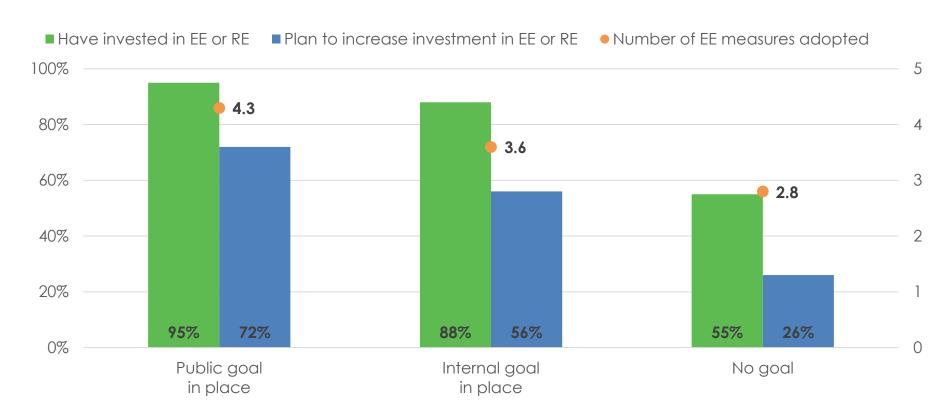
### 1. Why do targets matter?

- A. Targets work
- B. Targets track progress
- C. Targets increase financing
- 2. Stakeholder consultations to obtain data
- 3. Setting targets
- 4. Plan short-term and long-term
- 5. Make an implementation plan and present to stakeholders





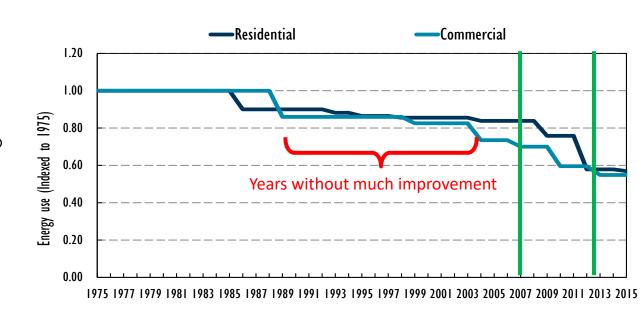
### Targets work: influences behaviour





### Targets work: compel action

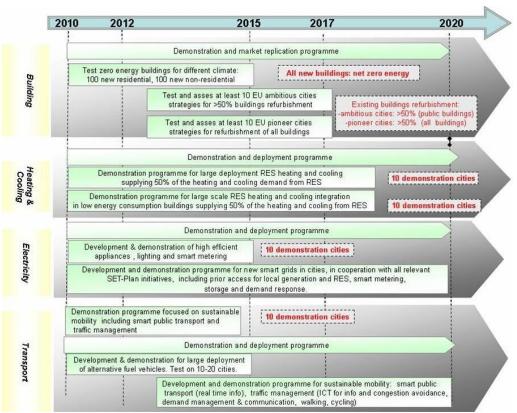
- In 2007, US DOE needed to reduce energy use in new buildings by at least 30% by 2010 and set this target
- In October 2010, 32% energy savings was achieved due to building codes





### Targets work: allows build-up of roadmaps and track progress

- Guide specific activities with intermediate checkpoints building up to the target
- Allows to visualise potential roadblocks, as well as potential areas of coordination with other targets (e.g. energy access, reduction of local air pollution)





### Targets increase financing

Targets show the municipalities'
 commitment to energy efficiency and
hence reduces the perceived risk from
the financial institutions' point of view





- A. Identify key stakeholders
- B. Scoping of priority issues
- C. Techniques and responsibilities



### A. Identification of key stakeholders

- General
  - Electric / state utilities for DSM
  - Banks / financial institutions
  - National government
- Buildings
  - Codes policymakers
  - Labor unions/associations

- Transport
  - Land developers
  - Transport policymakers
- Utilities
  - Consumers and operators
- Waste
  - Landfill / waste-to-energy operators

Who else are the other key stakeholders?

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### B. Scoping of priority issues

 This is the part where you plan who might require special attention. Are there sensitive or controversial topics?

### Who gets impacted the most?

- Will retrofitting requirements provide jobs?
- Will developers owners get assistance?
- Will zoning ensure access for those in lower socio-economic status?
- Will financial credit lines be available?

What else would be a priority in energy efficiency programmes?



### C. Techniques and responsibilities

### Employ typical stakeholder consultation techniques

- Informal, semi-formal, formal
- Facilitation of discussion towards objectives and common good
- Reaching out to new stakeholders when necessary

### Remember your responsibilities and to assign them theirs

- Stakeholder consultation is an implicit promise and results should be taken into consideration
- Consultation also gives legitimacy to municipalities to assign responsibilities to specific parties

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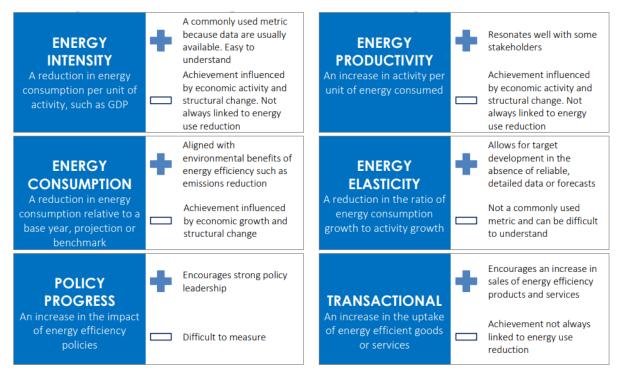






### Set the appropriate target

 Municipal targets could be general (energy intensity, energy consumption) which could mean different benefits and disadvantages





### Set the appropriate target: specific targets

Buildings in Jakarta

Transport policies in different cities



Table 2.4 • Announced access restriction mandates in local jurisdictions 2040 Local jurisdiction 2024 2025 2030 2035 Athens Auckland Balearic Islands Barcelona Cape Town Chinese Taipei Copenhagen London Los Angeles Madrid Mexico City Milan Oxford Paris Quito Rome Seattle Stockholm Vancouver Diesel access restrictions ICE access restrictions Fossil-Fuel-Free Streets Declaration ICE sales ban

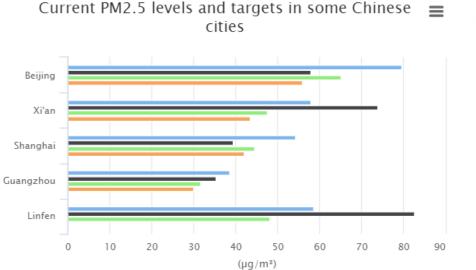


### Set the appropriate target: targets based on multiple benefits

Air pollution

2015 annual mean

Three-year Action Plan target



2017 annual mean

City's 13th Five Year Plan target

### Traffic-related deaths

Graph 1: EU fatalities and targets 2001-2020



Source - CARE (EU road accidents database)



### Set the appropriate target: targets based on multiple benefits

- New York's Vision Zero: zero injuries or fatalities
- Key highlights relating to energy efficiency:
  - Cycling
  - Public transport
  - Infrastructure improvement



### **Initiative Highlights**

is plan announces 105 initiatives,

Plan Highlights

#### 1. Improving Street Safety:

Protecting the lives of millions of pedestrians, opclists, and motorists who use New York's streets every day is DOT's top priority. In the next stage of Vision Zero, DOT will lest new design treatments to reduce left turn conflicts, one of the leading causes of crashes involving pedestrians, advocate for legislation to require back seat passengers to wear seat betts, and seek to wear seat betts, and seek compand the terminal period companies of speed companies of the pedestrians and the seat passengers.

#### 2. Expanding Cycling:

Adapting best practices from Europe and across the globe, DOT seeks to doubte the number of active cyclists and make New York the best bilding city in the United States DOT will create at least 10 miles of new protected bilde lanes each year, improve bilde access to bridges, and explore an expansion of the Brooking Bridge pedestrian and bilde path. DO will also begin planning for Citti Bilde Phase 3, bringing bilde share to all the broughs, and dramatically expand opportunities for safe and secure bilde parking, especially near

#### 6. Caring for our Assets:

DOT will invest \$14 billion to keep our streets, bridges, and other assets in a state of good repair. The agency will complete a comprehensive inventory of all of its assets, invest in modern asset management decisions, take into account social, environmental, and financial costs when making investment choices, and continue to seek state authorization to use design-build, a procurement approach that would help DOT complete capital projects at lower cost and in less time.

#### 5. Developing a 21st Century Parking Policy:

Following the lead of cities like Seattle Washington, D.C.; and London, DOT will revolutionize how New York City manages curbaide parking and loading. DOT will enable parkers to pay for metered parking by smartphone, complete a comprehensive analysis of how our metered parking is used, better manage and price curb space to increase parking availability and loading access in key commercial hubs, and, with the NPPD. test new technologies to better enforce parking rules.

12 Strategic Plan 2016

Source: NYC Vision Zero





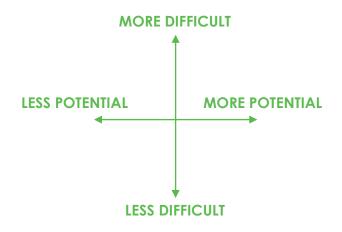
**Scenario:** A prominent NGO is challenging your targets as not being enough to reach climate goals.

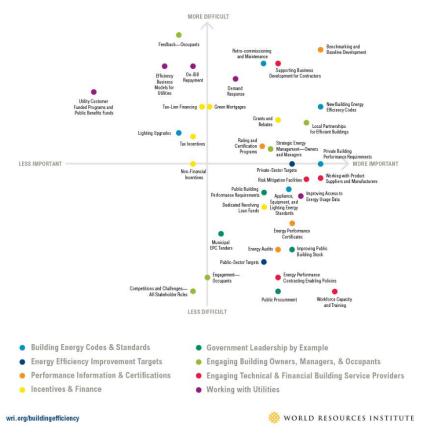
**Question:** How do you identify, quantify, and prioritise energy efficiency programmes and set appropriate targets?

Activity: Lay out and plan short-term and long-term programmes



 Based on your current level of influence (Session 1), and the energy efficiency potential (Session 2) rank the policies and programmes based on difficulty and importance/potential





Source: wri.org/buildingefficiency



- A few examples of municipal policies/programmes for classification:
  - Municipal DSM (Demand Side Management)
  - Transit-oriented development
  - Electric and low carbon vehicle incentives
  - Information and Communication Technologies infrastructure for traffic management
  - Streetlight replacement

- Motors replacement
- Energy audits (public buildings, utilities)
- Energy management systems (public buildings, utilities)
- District energy systems
- Electricity smart metering
- Waste-to-energy programmes

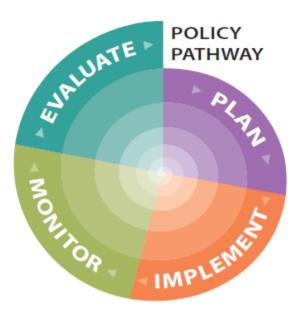


# 5. Make a plan and present to stakeholders

## 5. Make a plan and present to stakeholders



- Plan Sessions 1-5
- Implementation Session 6-8
- Monitor and Evaluate Session 9







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