R O A D M A P T O Z E R Ø

Edward Mazria, AIA, FRAIC Architecture 2030



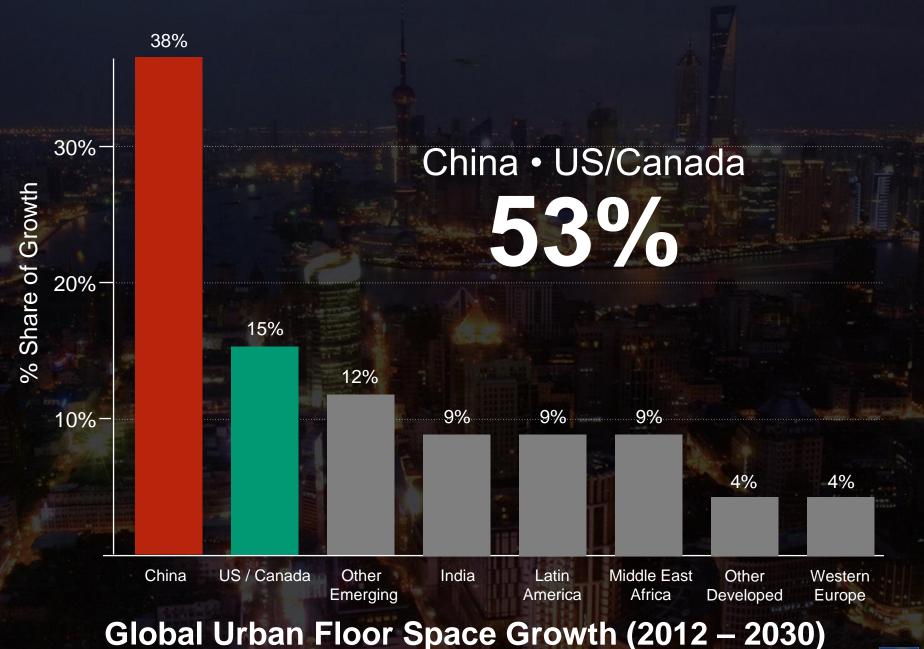
An area equal to 60% of the entire building stock of the world,

0%

of new and rebuilt buildings will be constructed in cities worldwide.

Sources: UN Habitat, State of the World's Cities 2010/2011; McKinsey Global Institute.





Source:

McKinsey Global Institute, Urban World: Cities and the rise of the consuming class, 2012.



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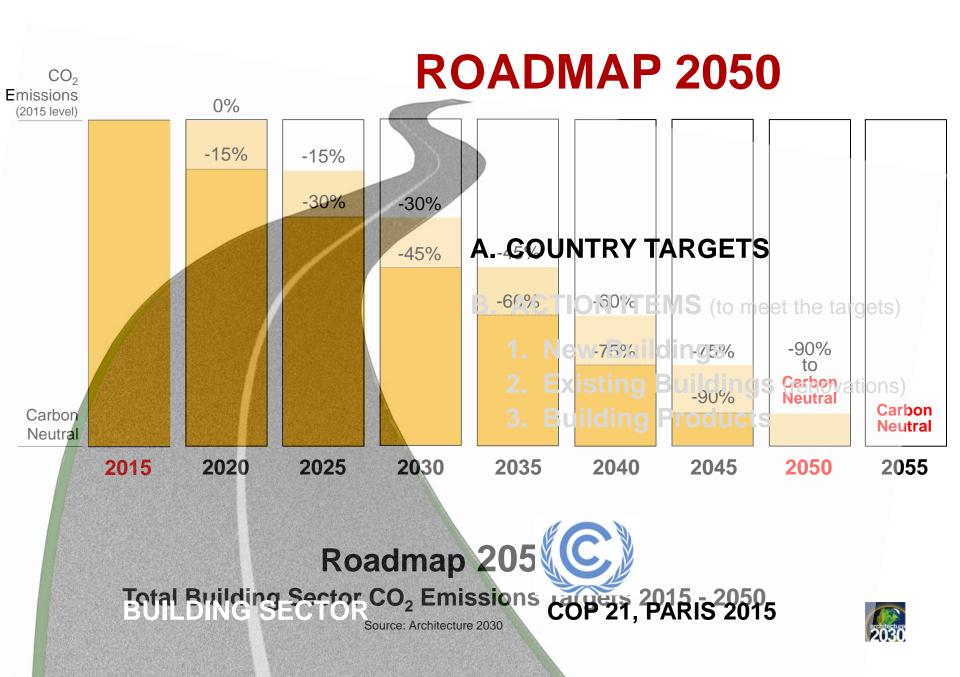
A. COUNTRY TARGETS

- B. ACTION ITEMS (to meet the targets)
 - 1. New Buildings
 - 2. Existing Buildings (renovations)
 - 3. Building Products





BUILDING SECTOR



ROADMAP 2050

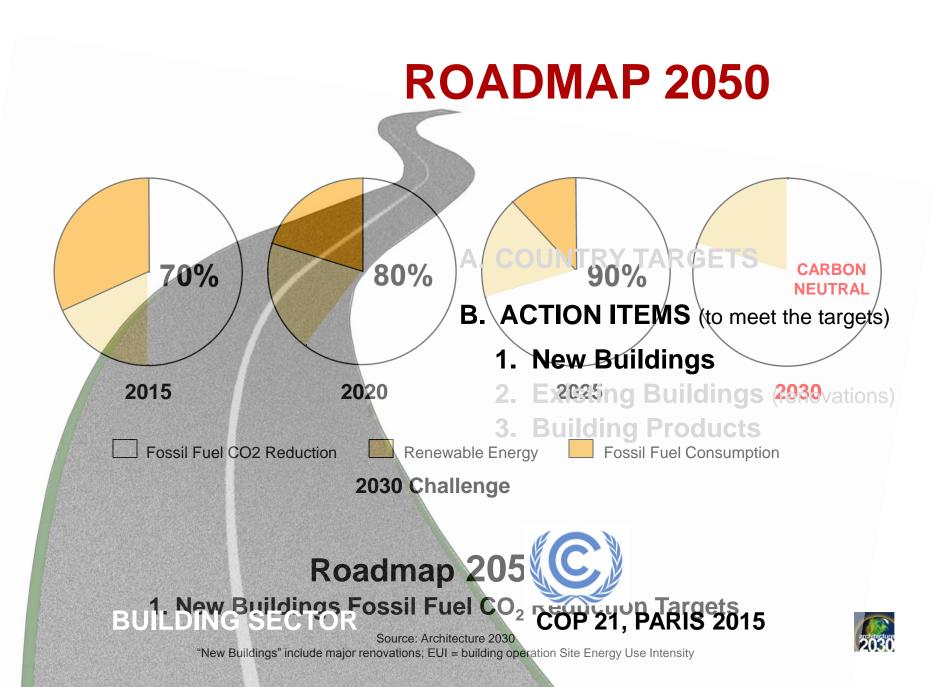
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BUILDING SECTOR



ROADMAP 2050

A. COUNTRY TARGETS

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BUILDING SECTOR

Fossi Fue Consumption MAP 2050

Fossil Fuel CO₂ Reduction

2% to 3%

(annual building stock renovation)

50%

Developed Countries

Renovate a *minimum* of 2% to 3% of the total existing building stock each year to a 50% fossil fuel operating energy consumption reduction.

B. ACTION ITEMS (to meet the targets)

1. New Build 5% sto 2%

A. COUNTRY TARGETS

Existing Buildings (renovation)
Buildings (renovations)
Buildings (renovations)

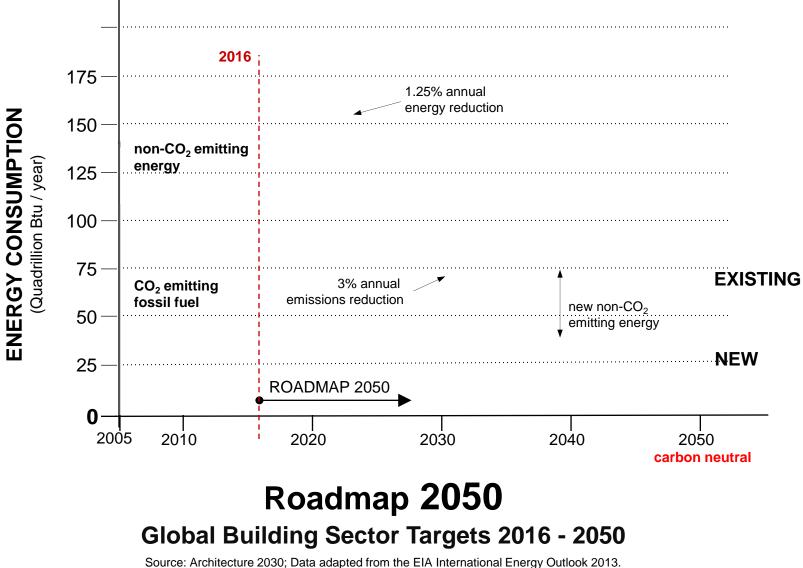
50%

Renovate a *minimum* of 1.5% to 2% of the total existing building stock each year to a 50% fossil fuel operating energy consumption reduction.

Roadmap 205 Sufficient Participation Targets Source: Architecture 2030 COP 21, PARIS 2015



Global Building Sector energy consumption





PROGRESS?



Practice



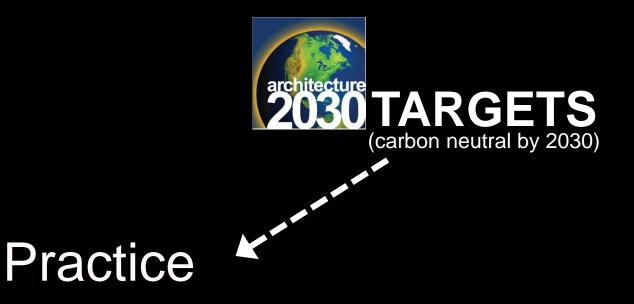


















2030

Practice

- SEATTLE
- CLEVELA
- PITTSBU
- LOS ANC
- DENVER

TORONTO DALLAS SAN FRANC WASHINGT SYRACUSE ANN ARBOR ATLANTA DETROIT ITHICA

2030

Unique private/public partnership

- Property owners and manag 0
- Local governments \bigcirc
- DISTRICT Business/community stak \bigcirc

52% ALBÓ COLIR DUS. architectu STAMFORD PHOENIX SAN ANTONIO

FT. WORTH



Practice



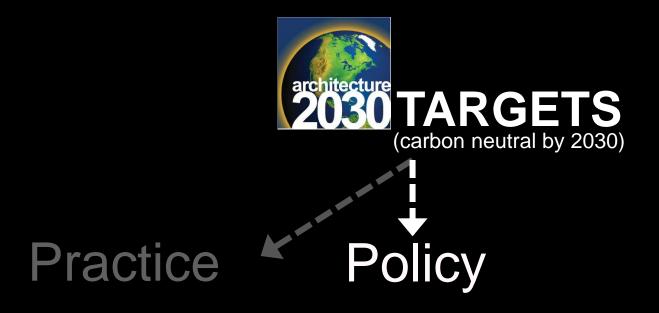


Practice















architecture 2030



GETTING TO ZERO CARBON

Step 1.

- Design & Planning
- Sustainable
- Adaptable

70%-80%

(no cost / low cost)

Step 2.

ZERO CARBON



Technology



GETTING TO ZERO CARBON

Step 1.

- Design & Planning
- Sustainable
- Adaptable

70%-80%

(no cost / low cost)

Step 2.

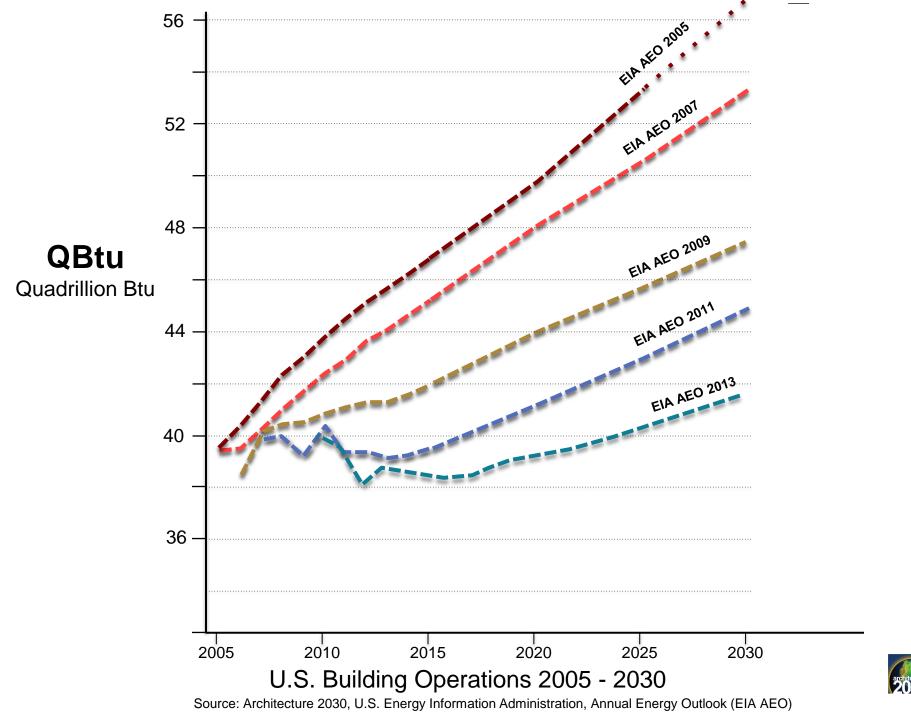
Renewables 20%-30%

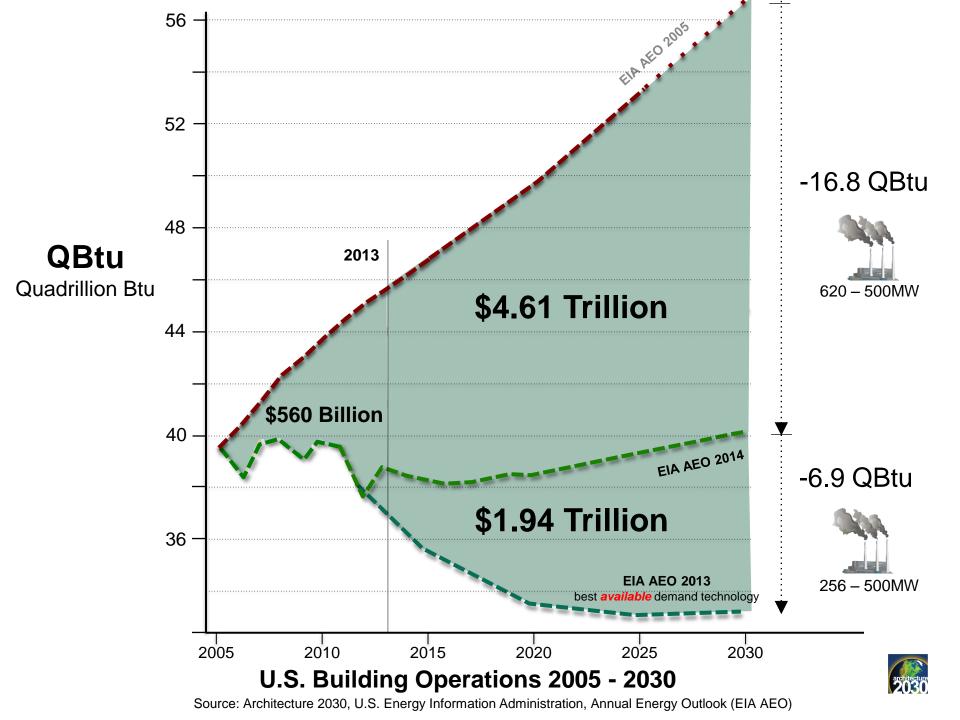
ZERO CARBON





Case for ACTION





it's all about... challenges & opportunities

Chatham House cordially invites you to join the conversation:

The Road to Zero

-- Worldwide Initiatives --

<u>Chatham House</u> and <u>Architecture 2030</u> invite you to join experts from countries, cities, and companies to discuss net zero initiatives and other emissions reduction strategies across the globe. Focusing on the Building Sector, participants will have a chance to hear from practitioners, researchers, and policy makers about strategies that work in the effort to reach carbon neutrality by mid-century.

» Thursday 12 June, 2014

- » Solar Room, Federal Ministry for Environment
- » 15:00 16:30

Thank You



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