



*Building Policies for a Better World*

# Building Performance Best Practices

*Pacific Cities Sustainability Initiative  
Annual Forum, Hong Kong*

*February 2013*

*Our mission is to significantly reduce greenhouse gas emissions associated with building energy use by*



Building Policies for a Better World

**Transforming**

Policies and markets

**GBPN**

Global Center

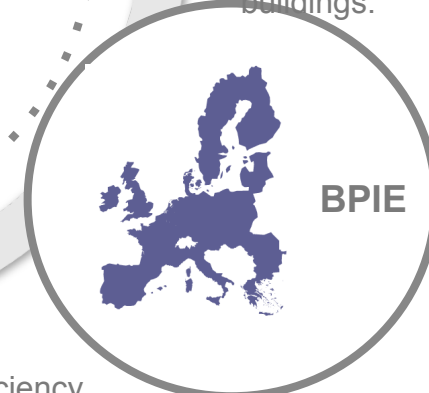
**Conducting** cross-cutting research and analysis

**Connecting** regional institutions, and share the best thinking building energy and GHG policy.

**Communicating** progress toward achieving the GHG abatement potential of the building sector

**Offering** world class energy efficiency expertise to policy makers and business leaders

**Harvesting** best practices policies in building energy efficiency and performance.



**Advancing** policies and programs that promote low carbon, energy & efficient buildings.

# Agenda



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- Building Performance & Best Practice: What do we mean?
- What are the opportunities & challenges in Asia?
- What does business think?

TOMORROW'S CITY

TODAY

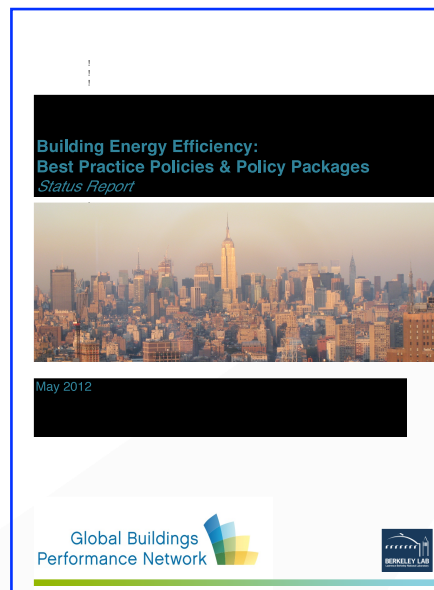
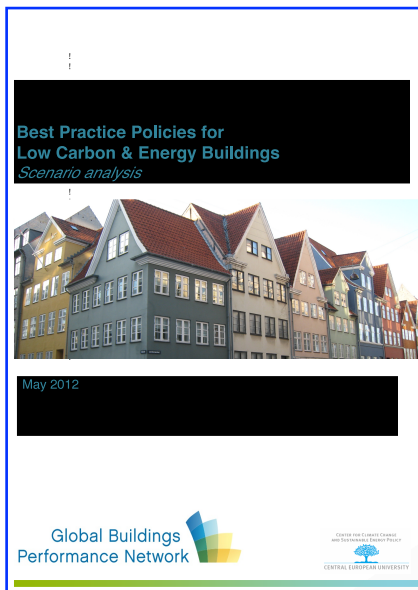
Editt Tower – Singapore – Ken Yeang



# What do we mean by best practices?

Where are the best polices ?

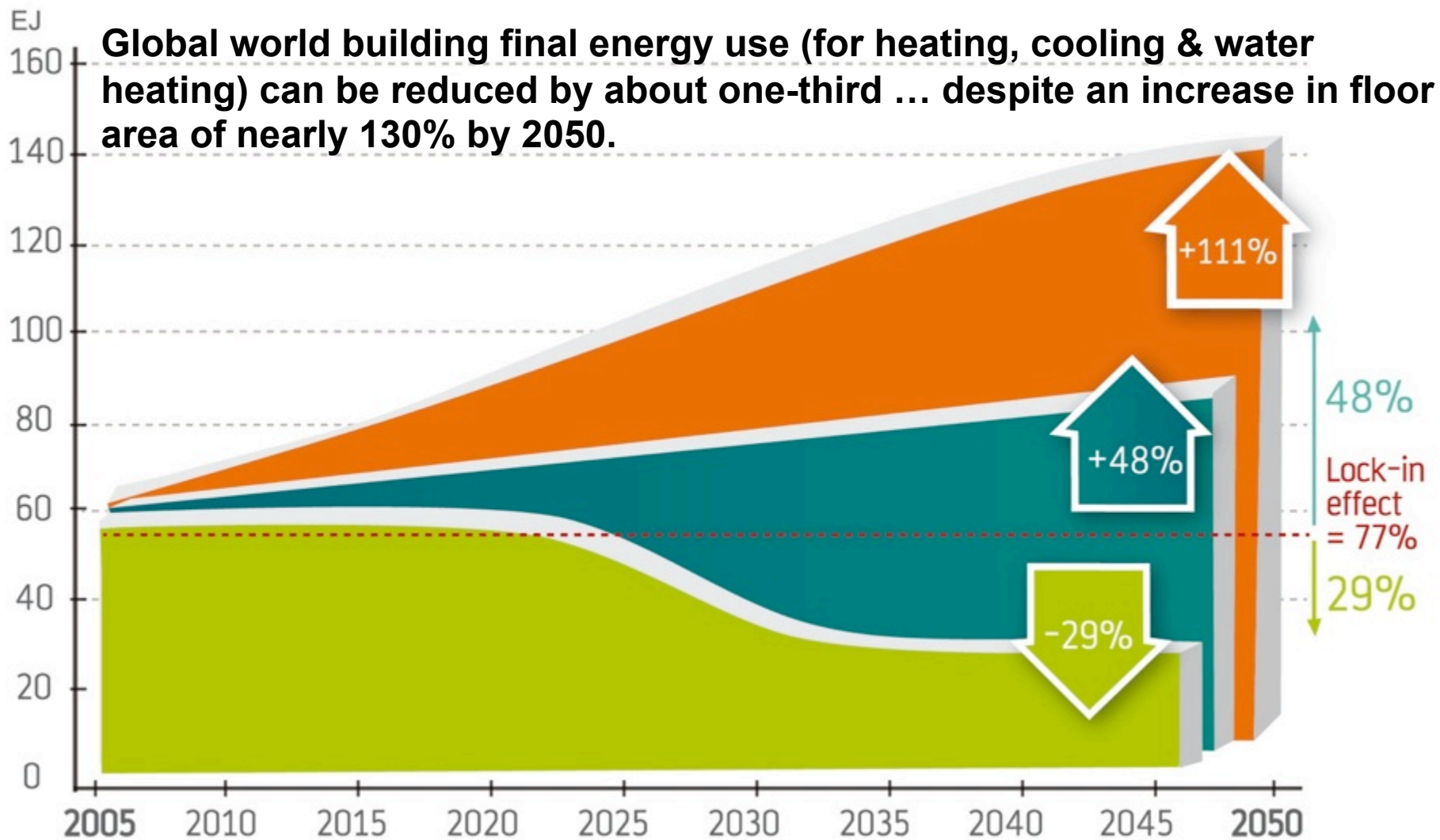
What's happening in Asia?



Where are the 'savings' ?

What does business think ?

## Three Modelled Scenarios : World Total Final Building Thermal Energy Use in 2050



Different scenarios:



# The Deep Scenario

Goal: 2.1Gt of CO<sub>2</sub> by 2030 & 3.2 GtCO<sub>2</sub> by 2050

Building regulations must adopt state-of-the-art performance levels for their climate zone ... **Even if it is not yet common practice**

Integrated **policy packages** making today's leading practices the standard by 2020:

***New Buildings:*** Building Policies with Net Zero Energy Targets as minimum

***Existing Buildings:*** Building Policies for Deep Retrofitting

***Enablers:***

- Financing & Co-benefits
- Performance data and mandatory rating & disclosure policies
- Policies for integrated renewable energy in building developments;
- Compliance with mandatory performance requirements.



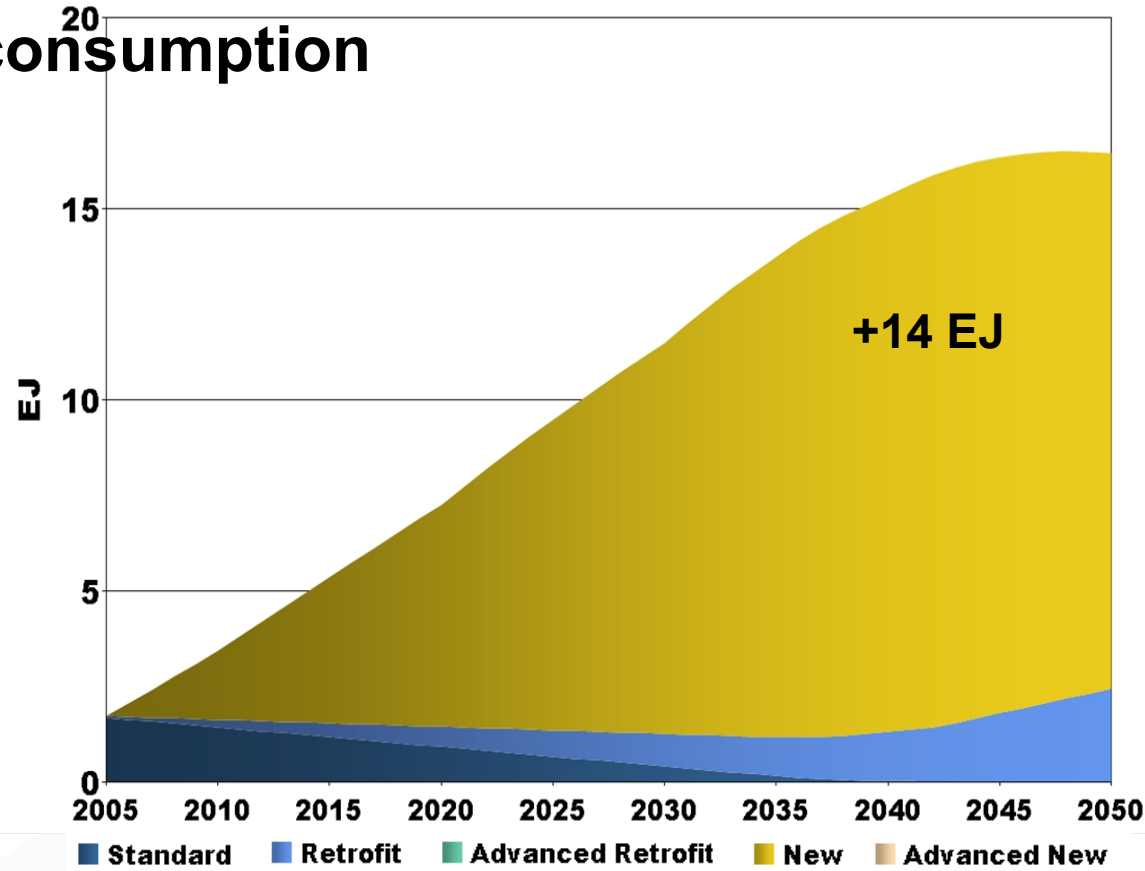
# Opportunities & Challenges in Asia?

Priorities for Progress in the World's Fastest Growing Markets

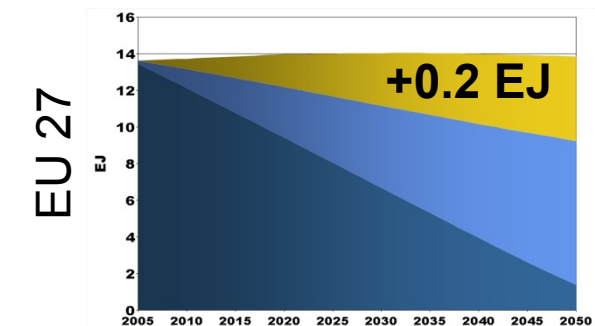
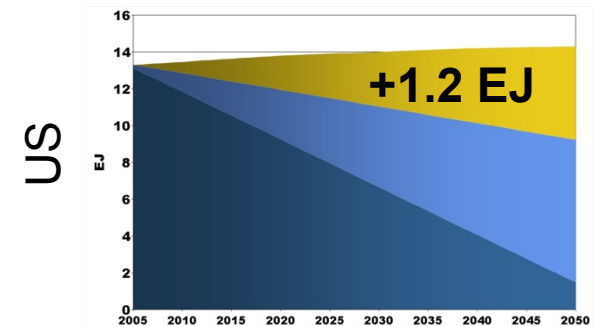
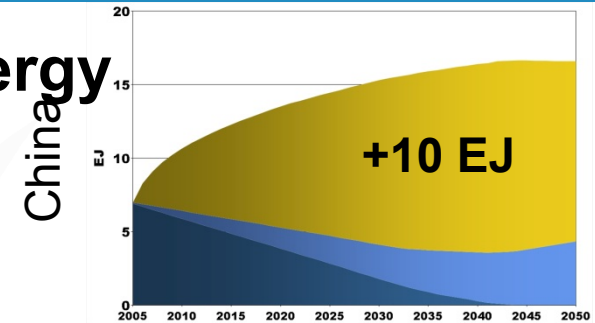


# Energy\* Consumption

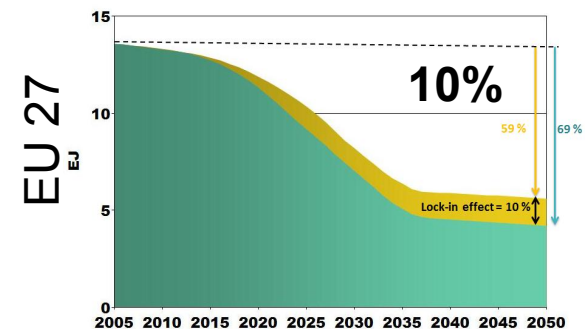
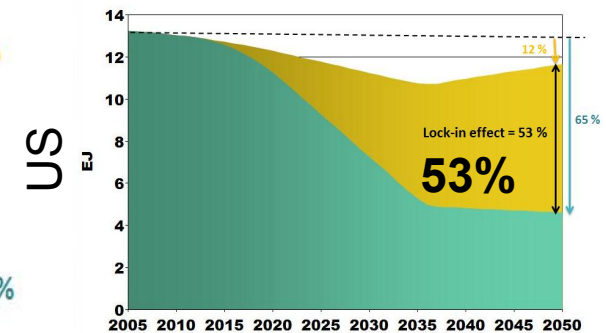
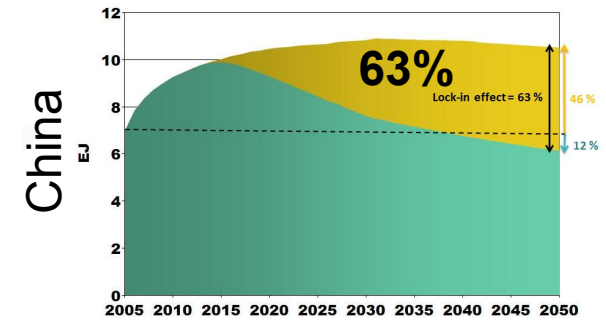
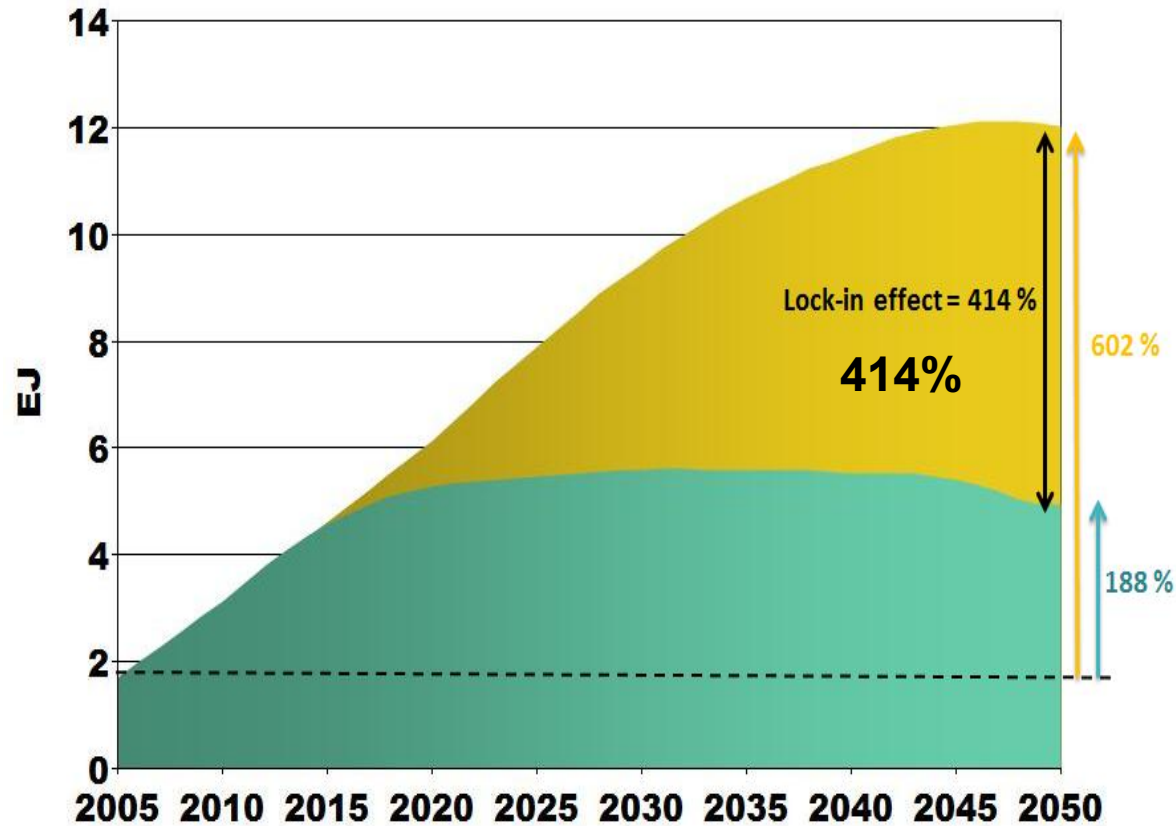
India = Greatest Increase in thermal energy consumption



\* Thermal Energy



# India & China have the Most to Gain and Lose



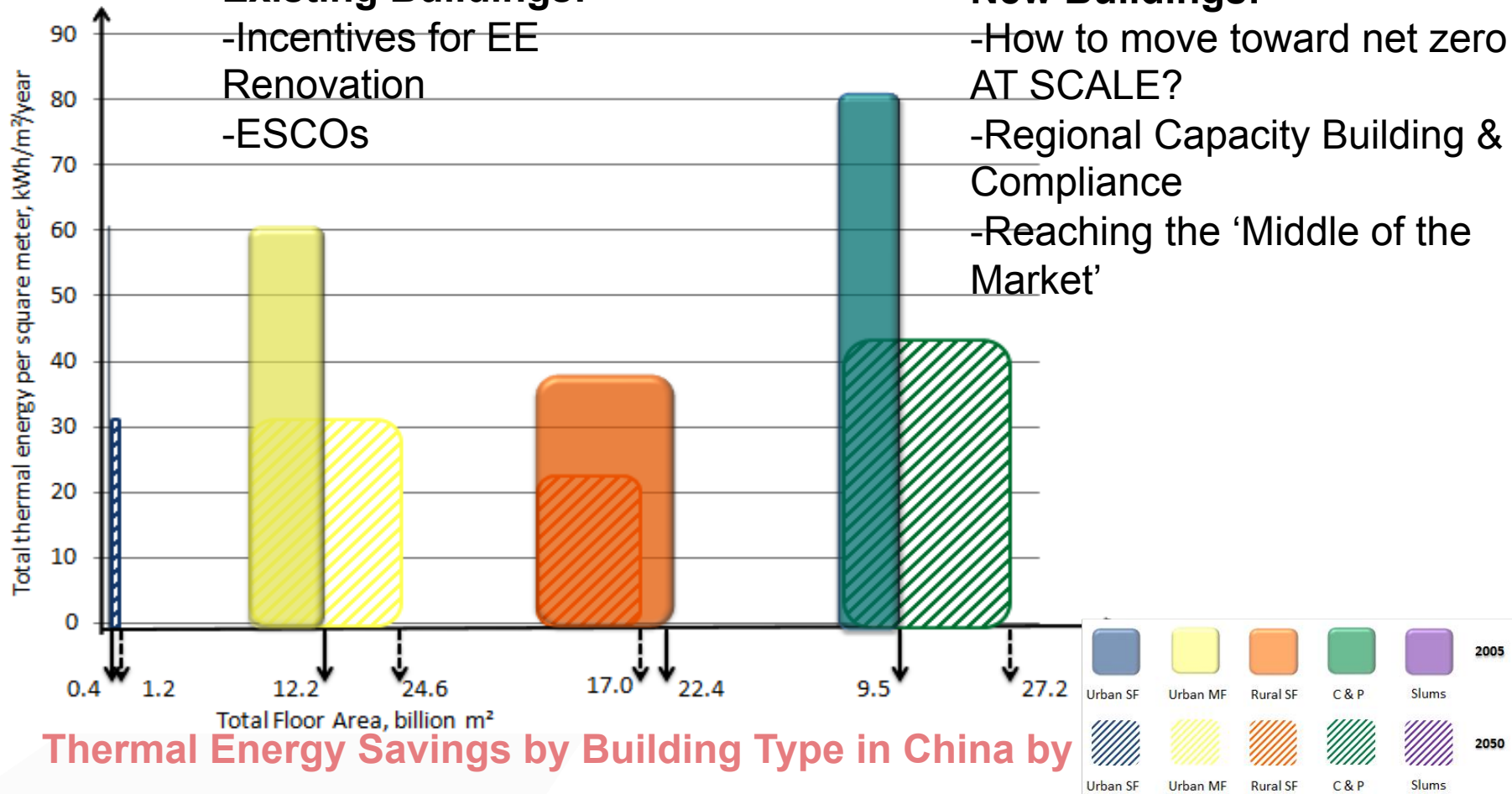
# China

## Existing Buildings:

- Incentives for EE Renovation
- ESCOs

## New Buildings:

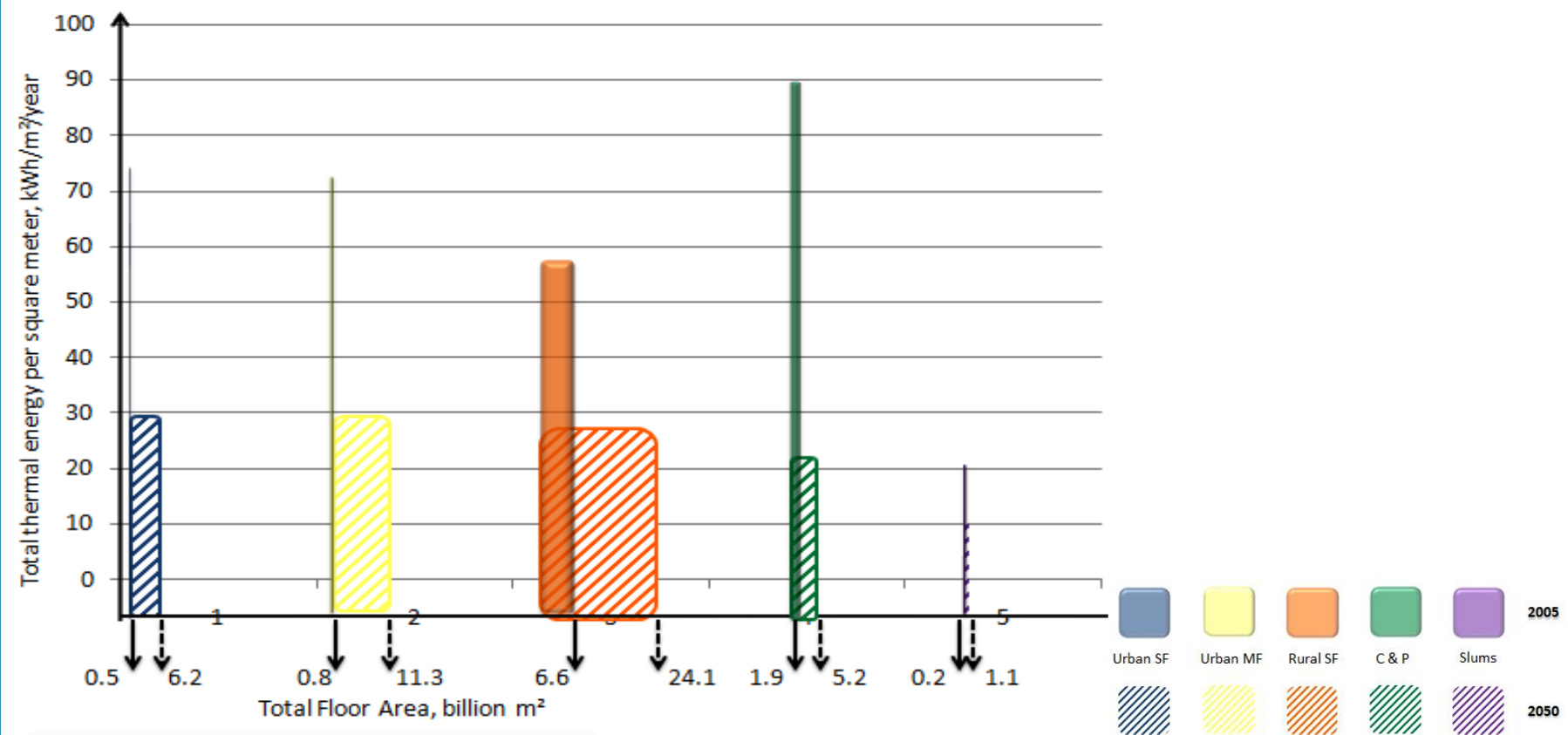
- How to move toward net zero AT SCALE?
- Regional Capacity Building & Compliance
- Reaching the 'Middle of the Market'



Thermal Energy Savings by Building Type in China by

# India & S.E. Asia

**New Buildings: 'Keep it Simple' EE codes for urban residential buildings**  
 Base-lines and (NAMAs)



**Thermal Energy Savings by Building Type in India by 2050**

# What do business think

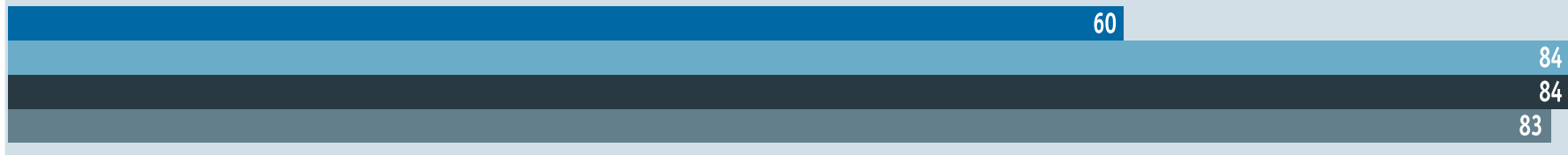


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Economist Intelligence Unit

The Economist

## Carbon emissions reductions are a responsibility for us as a businesses



## Energy efficiency legislation is a benefit to the buildings sector



Energy usage is a major factor in our investment decisions

Energy usage is not a major factor in our investment decisions



# Summary

## **Net Zero buildings as minimum required performance:**

Asia has the most to gain from strong policy actions – at scale;

## **More and Deeper Renovation:**

Markets for Efficiency are improving but need development;

## **Real-estate investors and developers are ready to ‘go deep’:**

But need better information on costs & benefits and clear public policy

## **This is Urgent:**

The risks are multiplying every minute – HOW TO SCALE UP?



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# Thank you!

## Let's stay in touch ...

*Consult our web site:*

*[www.globalbuildings.org](http://www.globalbuildings.org)*

*Follow us on Twitter: @GBPNetwork*

*Send us an email: [info@gbpn.org](mailto:info@gbpn.org)*