

# **Building a Better Future: Opportunities for better buildings**

Moderator: Tom Fitzpatrick

Panelists:

Harry Misuriello, ACEEE

Sheila Blake, City of Houston

Betsy del Monte, BECK

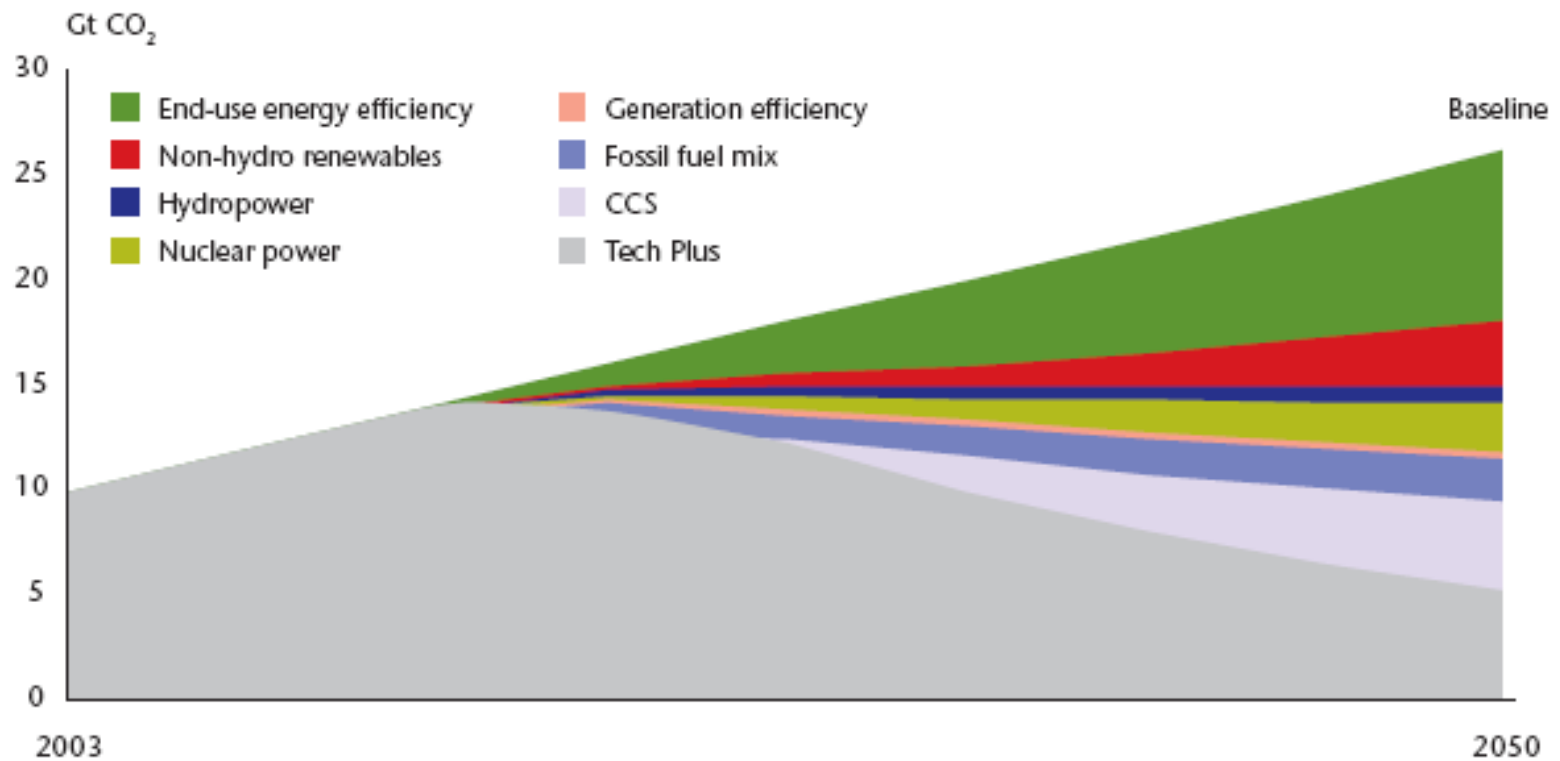
Steve Saunders, Texas HERO

# Opportunities for better buildings

- Building energy efficiency is the cheapest, cleanest strategy for reducing emissions, improving grid reliability and moving us toward a sustainable future where a large portion of electric loads can be met with renewable resources. How?
  - Codes
  - Above Code Standards
  - Energy Audits of existing stock

# World Business View of CO<sub>2</sub> Opportunities

Figure 1: CO<sub>2</sub> reduction potential within the power generation sector by contributing factor



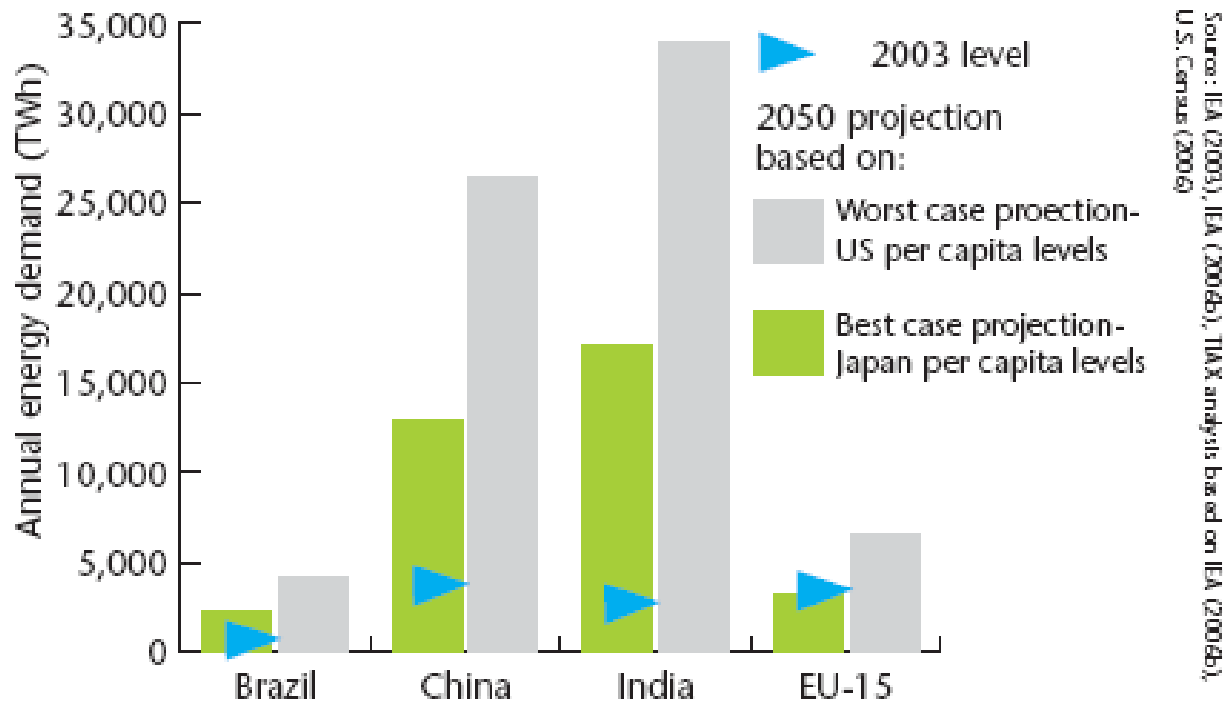
Source: Powering Sustainable Solutions: Policies & Measures.  
World Business Council for Sustainable Development. 2008

# WBCSD Conclusions

- There are three key elements to achieving progress:
  - **Use less energy**
  - **Make more energy (on-site)**
  - **Share surplus energy** (through an intelligent grid).
- **The most significant, long-term gains will come from using less energy.**

Source: Powering Sustainable Solutions: Policies & Measures.  
World Business Council for Sustainable Development. 2008

# World Needs Building Energy Solutions. Will we lead?



(Site annual energy consumption in terawatt-hours based on forecast population and developed country consumption levels)

Figure 2.2: Projections of site annual energy consumption in 2050

Source: World Business Council for Sustainable Development. Energy Efficiency in Buildings: Business Realities & Opportunities, October, 2007

# How?

- Codes
- Above Code Standards
- Energy Audits of existing stock