

# **Promoting and upscaling industrial energy efficiency: *IEA insights on capacity building for policy makers***

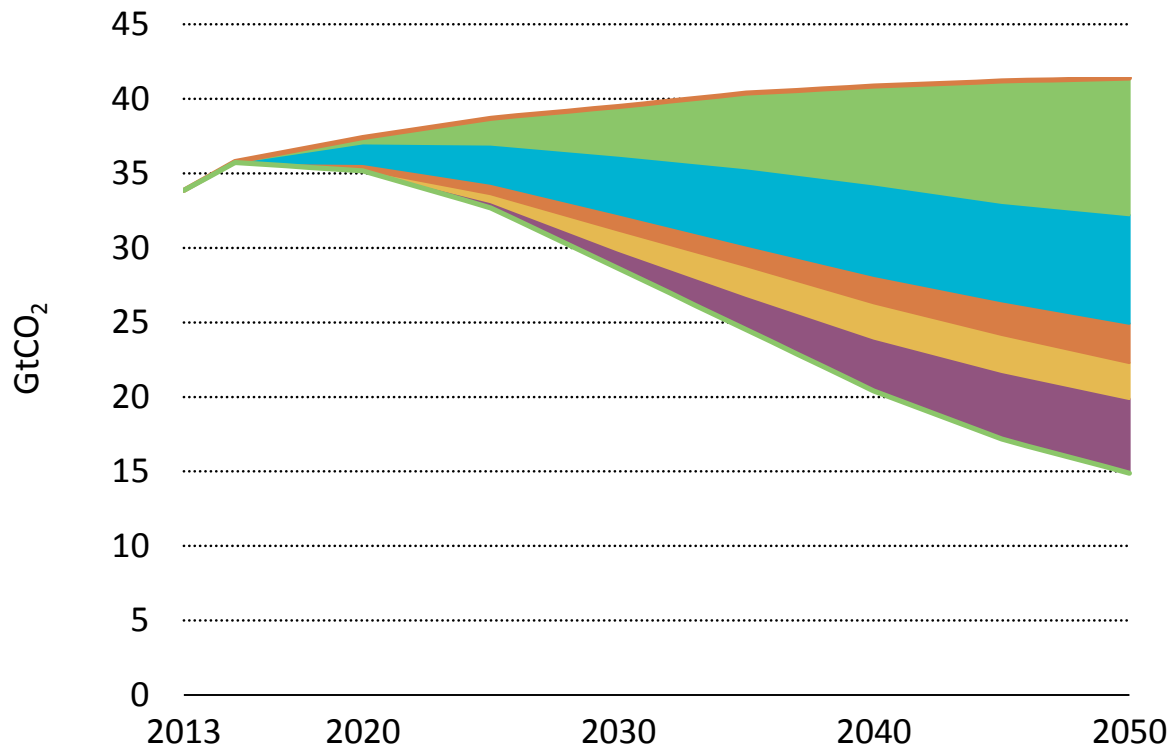
**UNFCCC Technology Executive Committee Meeting  
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# Sizing the scale of the challenge... ... and its solutions

Contribution of technology area to global cumulative CO<sub>2</sub> reductions

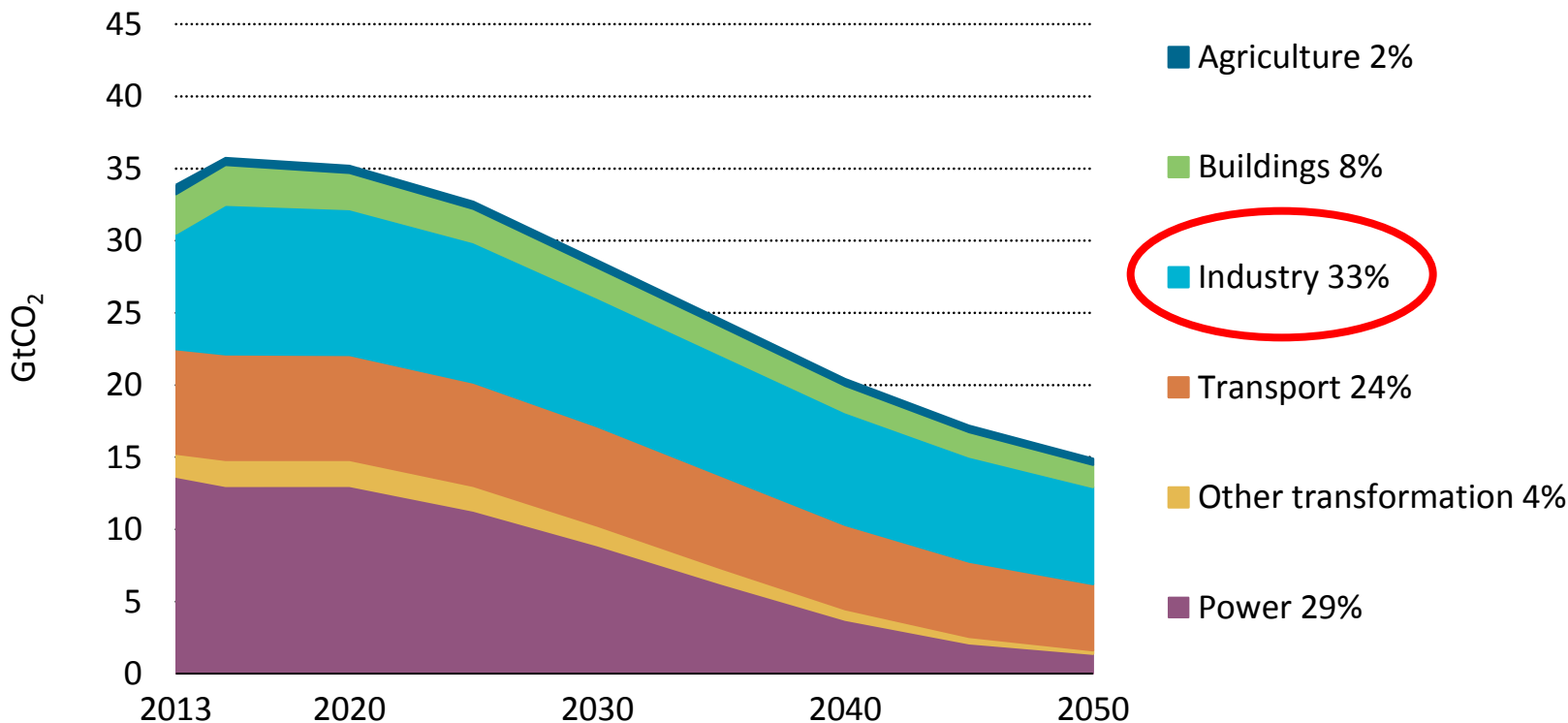


**The industrial sector accounts for 23% of cumulative CO<sub>2</sub> reductions**

*The carbon intensity of the global economy can be cut by two-thirds through a diversified energy technology mix*

# But the challenge increases to get from 2 degrees to “well below” 2 degrees

Energy- and process-related CO<sub>2</sub> emissions by sector in the 2DS



*Industry and transport account for 75% of the remaining emissions in the 2DS in 2050.*

# Technology Roadmapping: Bringing stakeholders together



- Goal to achieve
- Milestones to be met
- Gaps to be filled
- Actions to overcome gaps and barriers
- What and when things need to be achieved



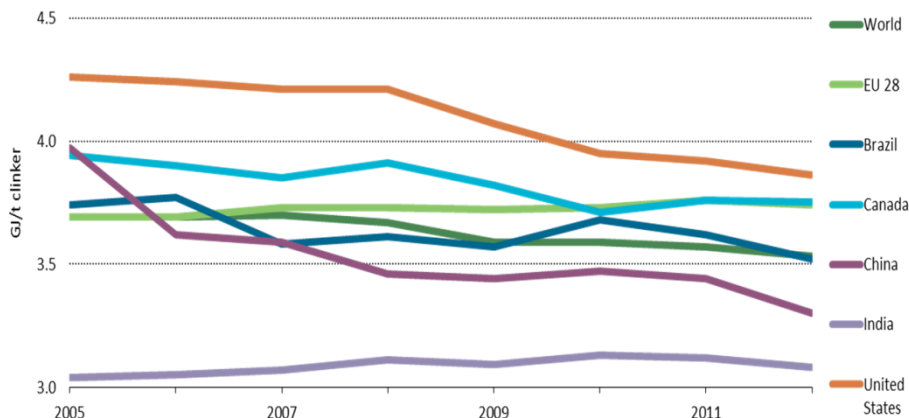
- 32 global publications, 21 different technology areas
- Cement example:
  - Global (2009)
  - India (2013)
  - Brazil (2017)
  - India Phase II (2017)
  - Global update (2017)



Low-Carbon Technology Roadmaps

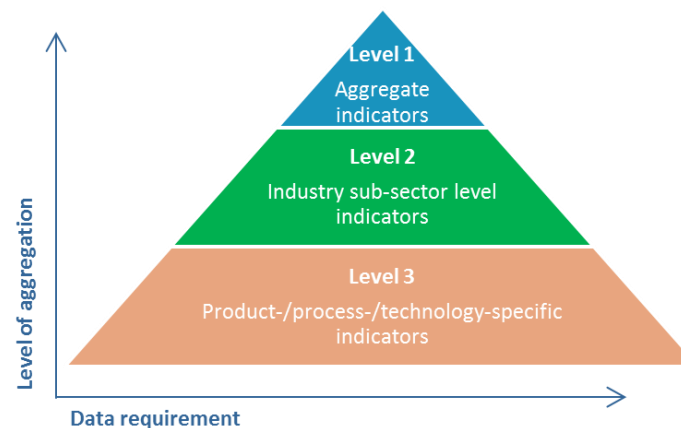
# Tracking progress with robust indicators

Thermal energy intensity per tonne of clinker



Source: [www.wbcsdcement.org/GNR-2012/index.html](http://www.wbcsdcement.org/GNR-2012/index.html)

Indicators pyramid



Energy Efficiency in Emerging Economies Training Week

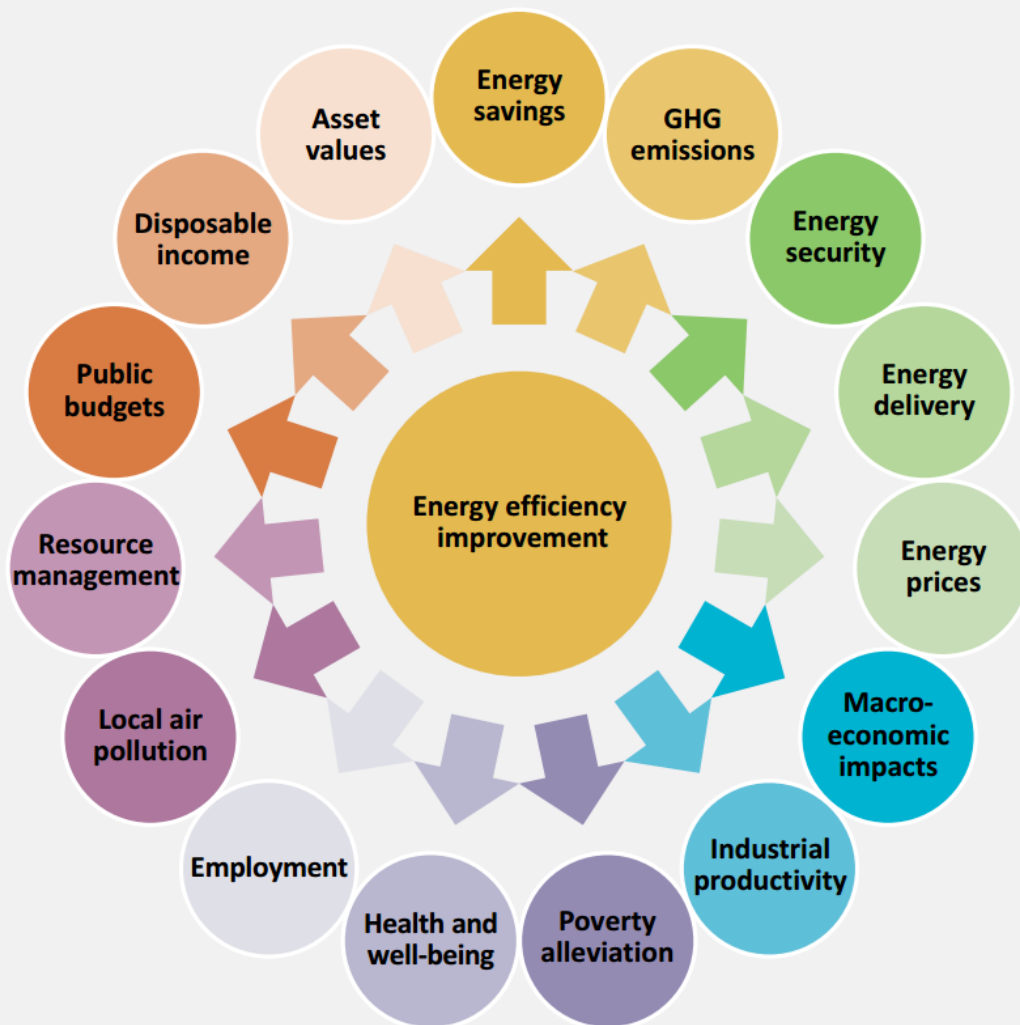


Indicators Training Manuals



Source: IEA (2014). Energy Efficiency Indicators: Essentials for Policy Making. <http://www.iea.org/publications/freepublications/publication/energy-efficiency-indicators-essentials-for-policy-making.html>

# Energy efficiency brings multiple benefits



Note: This list is not exhaustive, but represents some of the most prominent benefits of energy efficiency identified to date.