



Meeting National Climate Goals - *Contributions from the Cement Sector*

29 September, 2009

Prepared for:



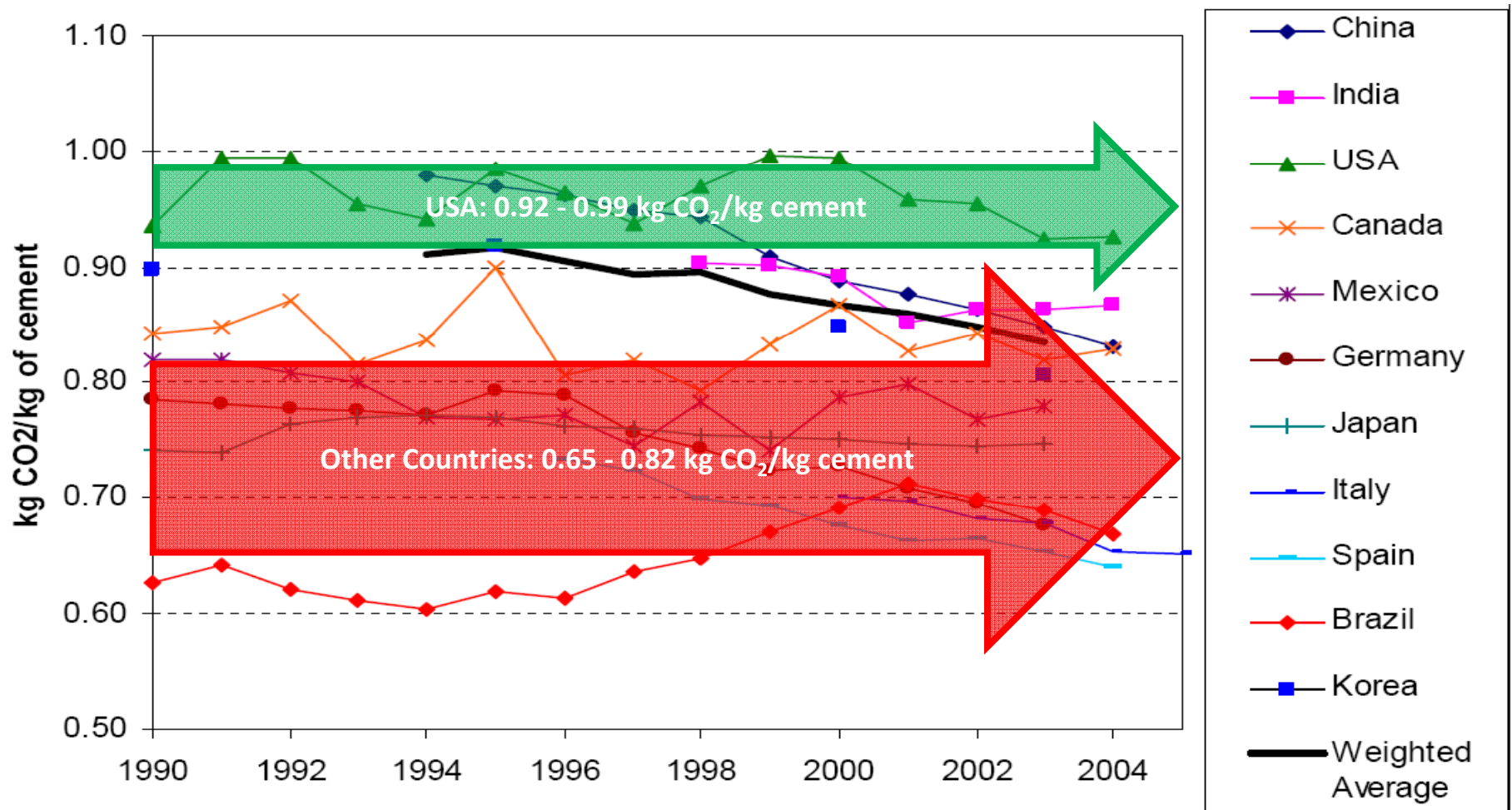
Prepared by:





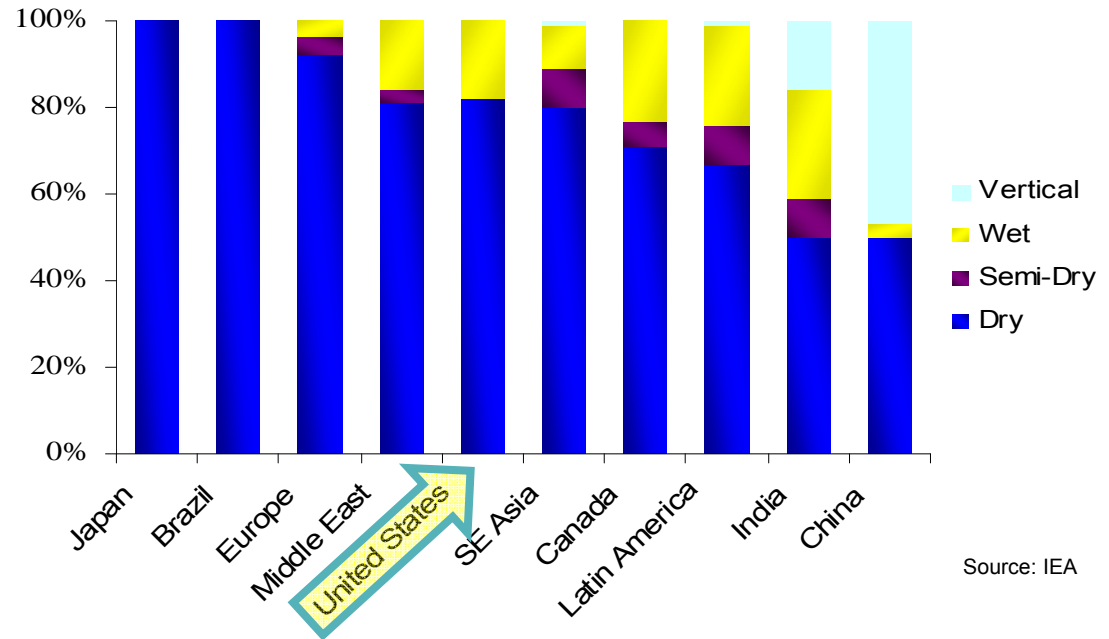
U.S. CO₂ Emissions vs. Other Countries

- Existing best practices lead to **less** carbon intensive cement manufacturing processes compared to the US

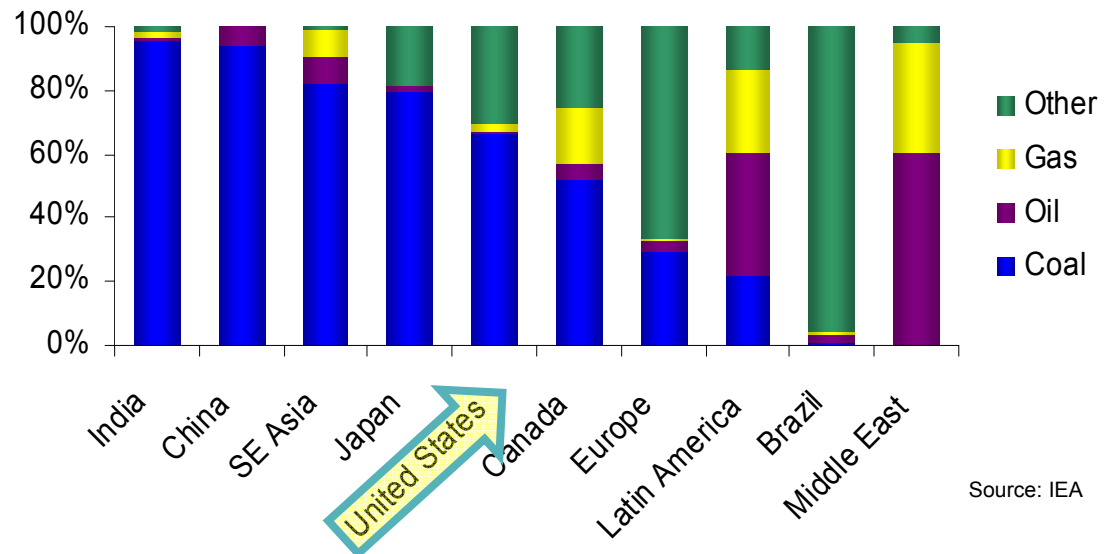




Kiln Technology

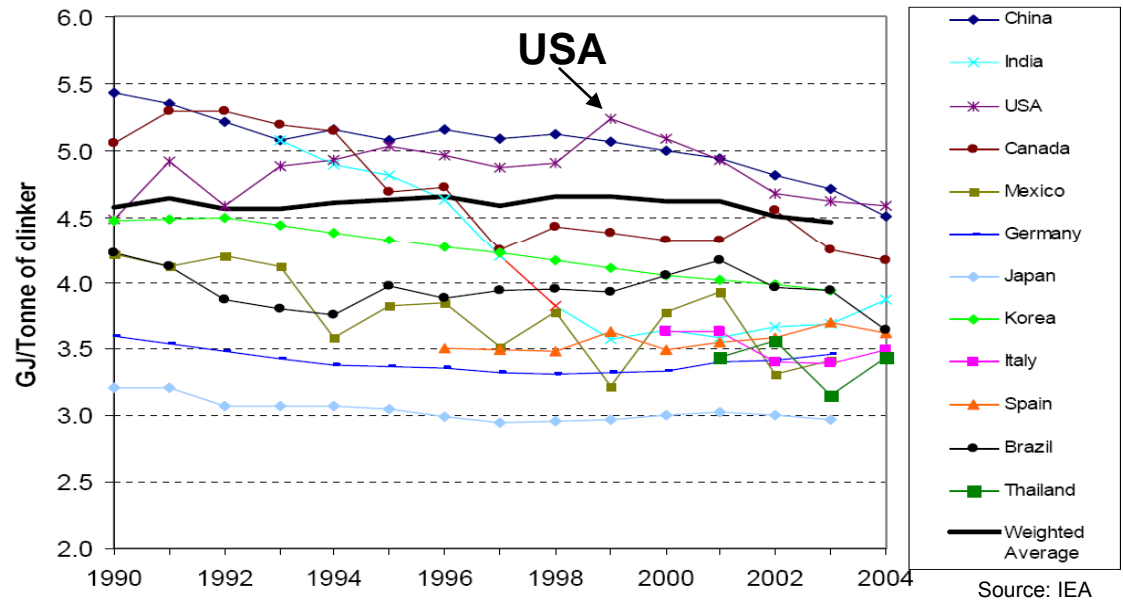


Pyroprocessing Fuel Mixes

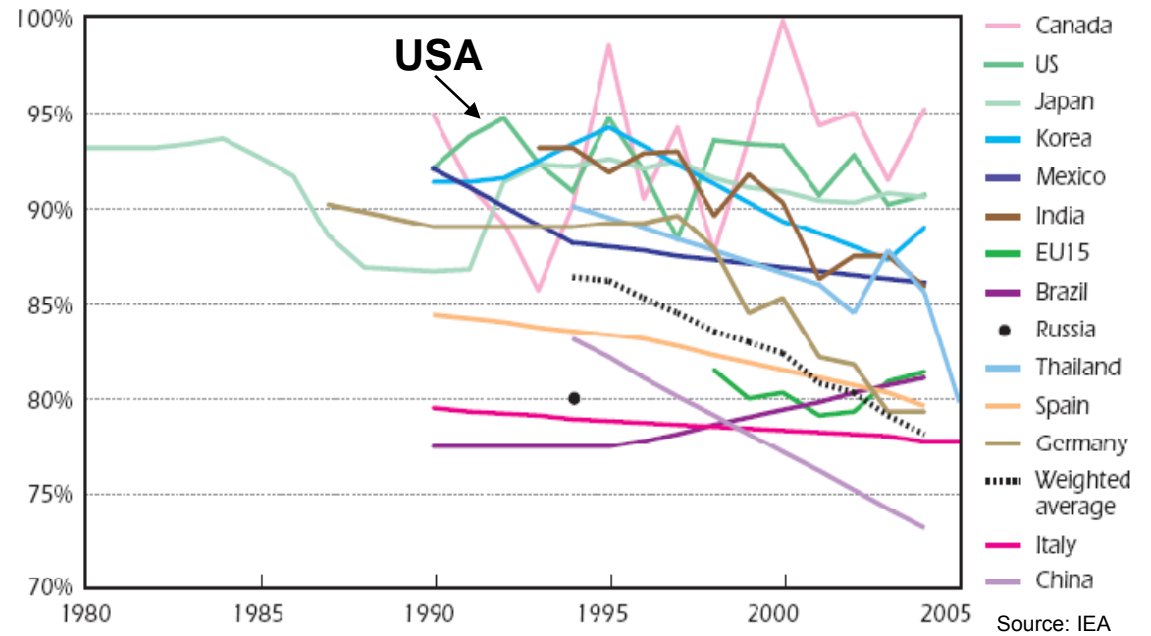




Global Fuel Use In Cement Kilns



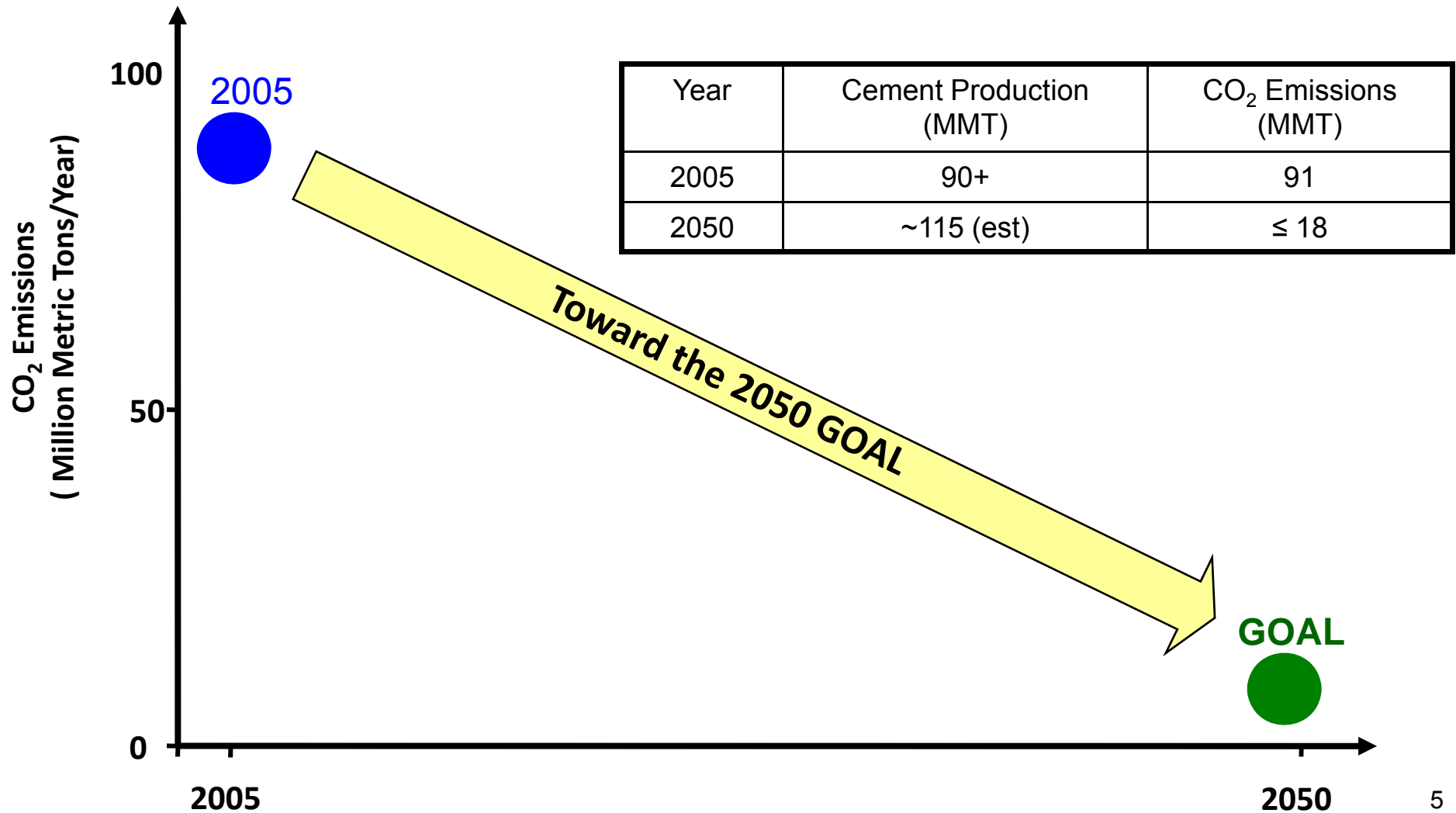
Cement-to-Clinker Ratios





Proposed National 2050 Goal:

Reduce CO₂ emissions by 80 percent from 2005 levels





DOE Objectives

- **For the Near to Intermediate-Term:**

Help identify specific best practices and policy instruments for the ***U.S. Cement*** manufacturing sector leading to:

- Improved energy efficiencies
- Reduced CO₂ emissions

- **For the Near and Long Term:**

Help identify ***technologies and pathways*** to significantly reduce CO₂ emissions in the U.S. cement manufacturing sector.



**Thank you.
Any Questions?**