

Dr. Chana Poomee
Chairman of Thai Cement Manufacture Association

Shift in Doing Business



Climate Change and Nature Loss

- Global boiling and carbon budget of 1.5C
- Resource scarcity, biodiversity loss, air quality, water stress



Energy Transition and ESG Investment

- Renewable energy investment
- Green infrastructure policy
- ESG standards
- Data integrity



New Rules of the Game

- NDC, carbon neutrality and net zero target
- Polluter pays principle
- Taxonomy
- Carbon tax/ETS/CBAM
- Carbon footprint products
- Carbon market

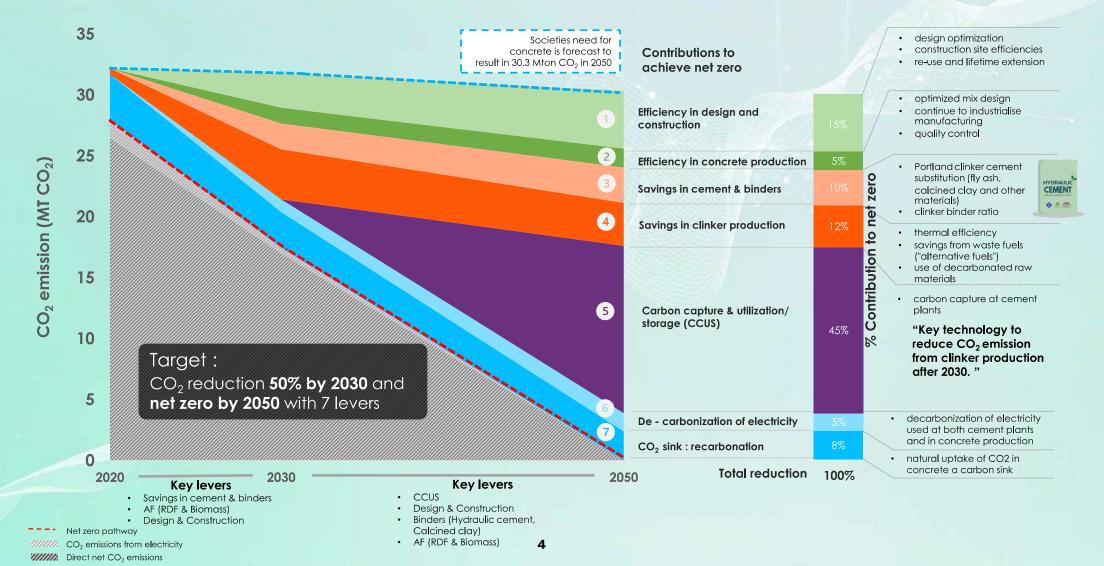
Key Challenges of Cement Business on Decarbonization

Cement production in the Global South faces challenges in achieving net-zero emissions due to high demand, limited resources, and costly carbon capture technology.



Thailand 2050 Net Zero Cement & Concrete Roadmap





Cement Industry Decarbonization in Global Platform



Driving Systemic transformation to pave the way towards a low-carbon society



Policy, Law & Regulation

Constraints and redundancies between government agencies



Climate Funding

Channels and procedures of the green funds to support decarbonization projects



Technology

Feasibility of decarbonization technologies



Governance

Cross - collaboration among public-private-people partnerships

Energy Transition

Implementing Solar Energy Project to Promote the Using of Renewable Energy. However, balancing ratio of Renewable VS Grid is still needed for Energy Security

40% In 2024



47% In 2030



Low Carbon Innovation towards Decarbonization



Product - Solution Transition

Providing Green Construction Solution to Contractor and Developer via "Offsite construction Technology": Precast Construction, 3D Printing Construction" to Minimize Waste, Improve Construction Efficiency and Utilize Green Materials

Precast Construction Technology

- DFMA Concept for Factory-Made Components
- Allows Flexible Building Shapes
- Panelized, Sectional Modules for Transportation



3D Printing Technology

- Digital Construction for both Off-Site & On-Site Work
- 3 Main Components: Printer, Design, Materials
- Future of construction: faster, Zero Waste, less labor









Sustainable Construction

The first large-scale property development project that features new design standard and follows sustainable construction practices under the concept of circular economy







Natural Climate Solutions

