



Overview of Pakistan's cement sector & SPAR6C Sector Report

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Jonas Hagen, PhD Sustainability Specialist





copenhagen climate centre













Sectoral Study

Decarbonization of Pakistan's Cement Sector: Technologies, Policy Options, and Carbon Market Opportunities





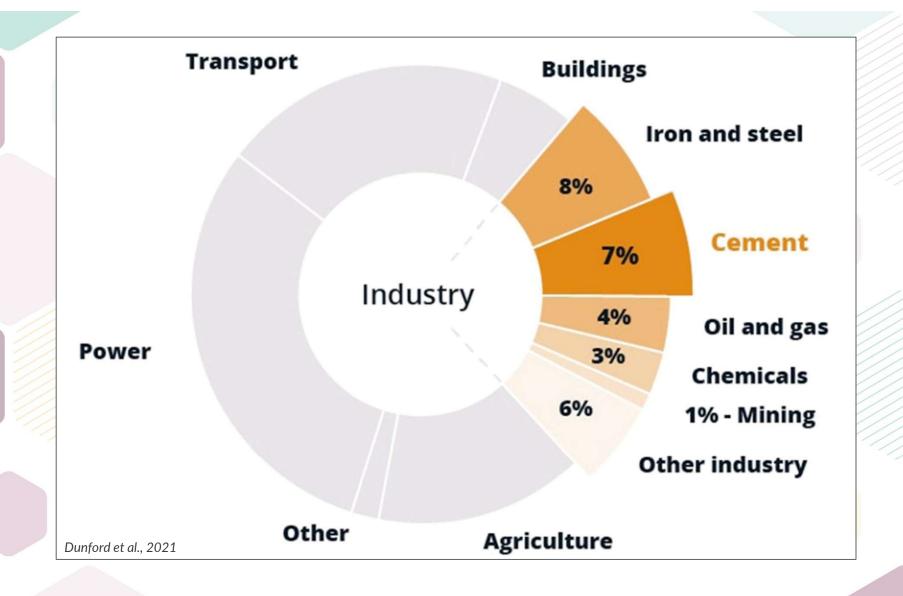






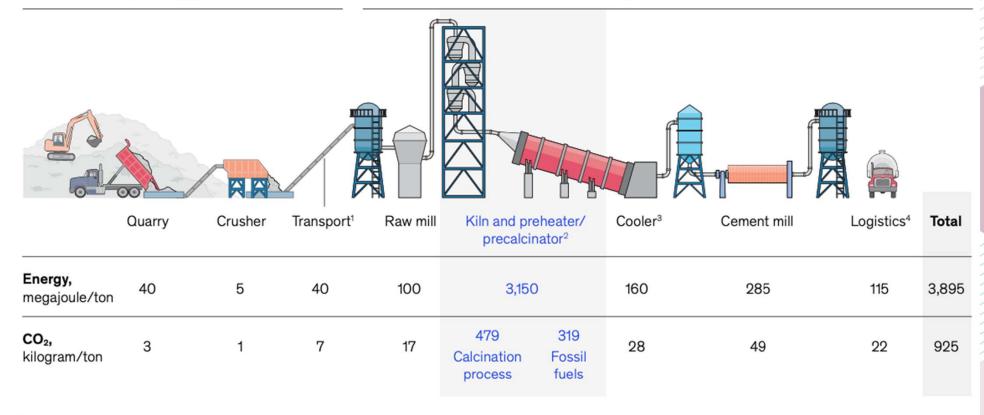






Raw materials, energy, and resources

Clinker and cement manufacturing



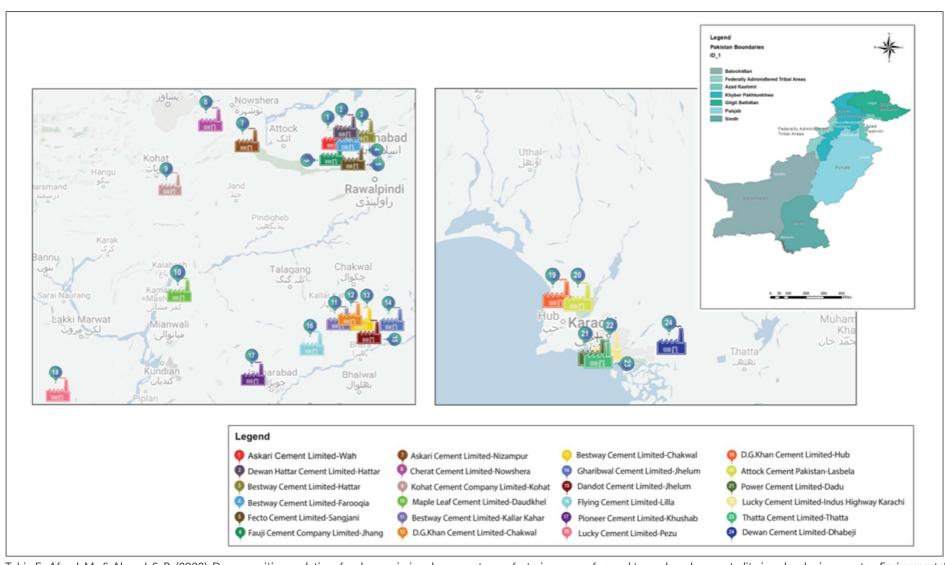
¹Assumed with 1kWh/t/100m.

McKinsey Report Laying the foundation for zero-carbon cement

²Assumed global average, data from the Global Cement and Concrete Association, Getting the Numbers Right 2017.

³Assumed reciprocating grate cooler with 5kWh/t clinker.

⁴Assumed lorry transportation for average 200km.

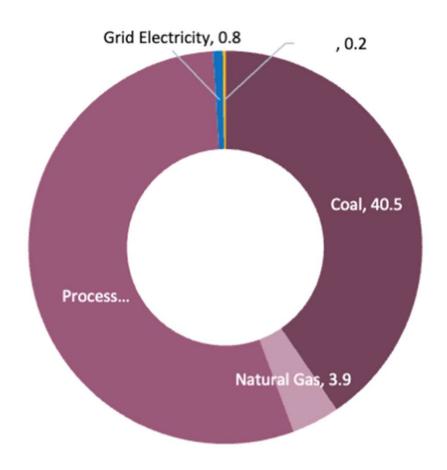


Rasheed, R., Tahir, F., Afzaal, M., & Ahmad, S. R. (2022). Decomposition analytics of carbon emissions by cement manufacturing—a way forward towards carbon neutrality in a developing country. *Environmental Science and Pollution Research*, 29(32), 49429-49438.



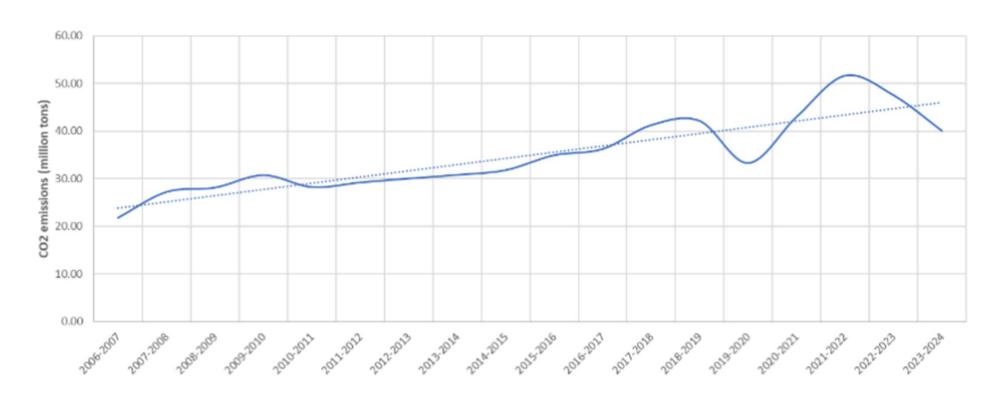
https://reonenergy.com/pro_type/solar-power-project/page/2/

CO2 Emissions from Cement Production in Pakistan, by Source

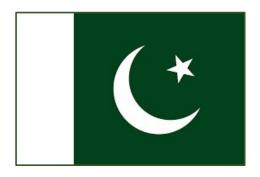


Qureshi, S, Zia, U, Bashir, N 2023., Pakistan's Cement Sector: A Road to Decarbonization 2023, SDPI

CO2 Emissions from Cement Production in Pakistan



Authors' calculations using data from from the APCMA - All Pakistan Cement Manufacturer Association



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www.freepik.com

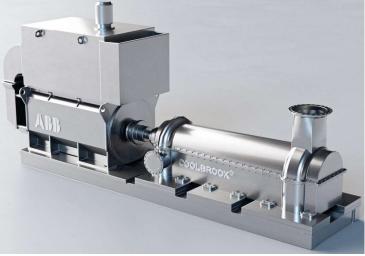
www.flaglane.com



Opportunities

- Carbon Credit & Funding Potential: Pakistani cement firms could engage in baseline-and-credit activities to generate ITMOs
- Proven Track Record: Previous successful CDM projects demonstrate sector capabilities
- Economic Benefits: Carbon finance can help scale up investments in lower-carbon technologies
- Technology Transfer: Access to advanced decarbonization technologies through international cooperation





https://coolbrook.com/electrification-solutions/rdh-industrial-process-heating/



https://www.businesswire.com/news/home/20241202648162/en/SLB-Capturi-Completes-Construction-of-the-Worlds-First-Industrial-Scale-Carbon-Capture-Plant-at-a-Cement-Facility (Construction-of-the-Worlds-First-Industrial-Scale-Carbon-Capture-Plant-at-a-Cement-Facility). The second construction of the second construction







Contact information

Jonas Hagen

jonas.hagen@heat-international.de













