

Net Zero 2050: Critical Role For Supplementary Cementitious Materials (scm's)

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Building on the SmartCrete CRC publication 'Decarbonisation Pathways for the Australian Cement and Concrete Sector' and the numerous Net Zero claims this paper summaries the critical role SCMs can contribute towards these goals. Paper provides an understanding of the current state of utilisation, including forecast (2040) production and availability of various supplementary cementitious materials (SCM).

Specifically evaluating coal combustion products (CCPs), iron and steel slags (ISS), and emerging new classes of manufactured pozzolans materials used across the Australian construction materials supply chain and their potential contribution to low carbon concretes (LCC).

The paper discusses and identifies possible resource impediments and strategies to increase uptake, for example; standards, specifications, guidelines, government assistance and research required to fill knowledge gaps to building understanding and market confidence for various SCM sources. Core elements of the report will include; (1) Historical Use; (2) The Resource; (3) Market Potential; (4) Technology Road Map and Pathways; (5) Research Knowledge Gaps; (6) Conclusions.