

CASE STUDY: SHREE CEMENT LTD

SCIENCE-BASED TARGETS

Validated Targets

Shree Cement commits to reduce Scope 1 GHG emissions **12.7% per ton** of cementitious materials by 2030, from a 2019 base year. SCL also committed to reduce Scope 2 GHG emissions **27.1% per ton** of cementitious materials within the same timeframe.



About Shree Cement Ltd.

Shree Cement Ltd (SCL), among the top three cement groups in India in terms of cement capacity, is headquartered in Kolkata, India. It is among the top 50 companies in India in terms of market capitalisation. The company's operational footprint spans seven Indian states with installed capacity of 37.9 MTPA. SCL has marked acquisition of Union Cement Company in Ras al Khaimah, UAE, creating its first footprint outside India, with an additional capacity of 4.0 MTPA. The company has the largest waste heat recovery based power plants in the global cement industry, excluding China.

Inclination Towards Science-Based Targets

SCL has been a forerunner in adopting the sustainability paradigm, be it in resource conservation, energy efficiency, climate mitigation, or in creating an impact in lives of their employees, local communities or business partners. In reference to that, the company has been charting out robust annual targets to improve the existing process, by optimising resource efficiency, targeting the reduction of its energy footprint, minimising greenhouse gas emissions from its operations, and making space for better sustainable practices.

Climate change, being a global crisis, also poses major risks to businesses, which is a clear incentive to businesses to mitigate its impacts, by setting long-term sustainability goals. Being a responsible company, SCL believes in creating value through their operational and business practices, and setting benchmarks for the cement industry. Furthermore, SCL has set science-based targets to ensure that their emission targets are aligned with the latest climate science and Paris Agreement goals.

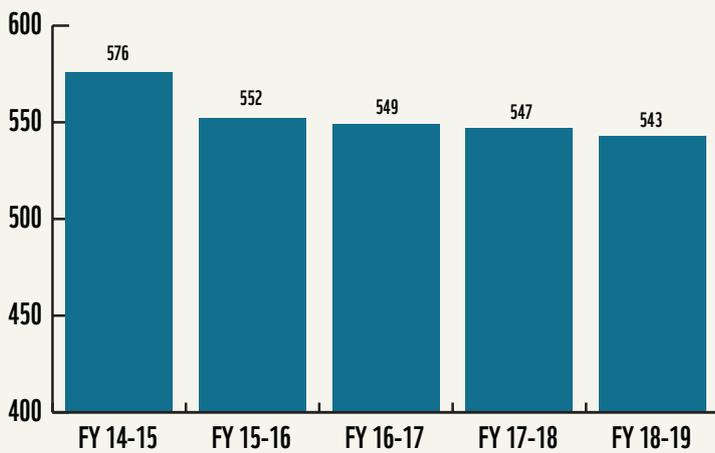
In 2019, SCL got its emissions targets approved by SBTi and became the first Indian cement company to have approved science-based targets.

Strategic Approach to Meet Science-Based Targets

Being a signatory of SBTi, SCL focusses on creating value for society and stakeholders in an efficient and responsible manner, by adopting a structured approach to cut down Scope 1 and Scope 2 emissions.

A fixed budget has been allocated for R&D centers of SCL to carry out the research and implement innovative technologies, like carbon capture, to make their operations sustainable across the value chain. The company has been aiming on to reduce the consumption of conventional fuels, and aggressively increase the use of alternate fuel resources, while enhancing the

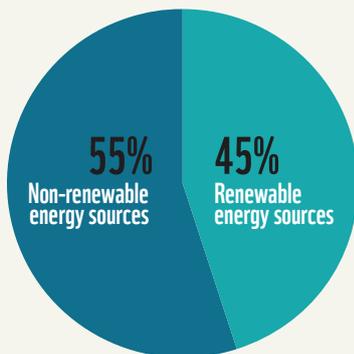
Figure 1: Specific net GHG emissions trend (Kg CO₂ per tonne of cement)



capacity of the Refuse Derived Fuel (RDF) processing plant. The combustion of Alternative Fuel Resources (AFR) reduces the carbon footprint and energy consumption, along with managing municipal solid waste. Increasing clinker substitution and production of blended cement also offers the same benefits, as does the use of AFR. Technologically advanced turbines have been installed by the company to improve energy efficiency. All these initiatives have led the way for SCL to reduce their GHG emissions and achieve low-carbon growth over the past five years.

SCL has always believed in embedding sustainability across its operations, through its green initiatives. The company has established largest Waste Heat Recovery Power Plant

Figure 2: Share of Renewable Energy in Power Mix*



in India, which is a major source of clean and green energy. With a continuous focus on enhancing Green Power Waste Heat Recovery and Wind Power Plants, SCL is now working on tapping solar energy at larger scale. As per the data provided by SCL, company’s share of renewable energy (WHR, wind and solar) stands at around 45% of the total power consumption and around 12 MW of solar power capacity is expected to be commissioned in FY 2019-20. All these initiatives have eased the burden on natural resources and paved the way for SCL to achieve the target.

* Waste Heat Recovery (WHR) is included in renewable energy sources.

SCL has committed to SBTi, not for a business deal to capitalise the market, but to make its contribution in the sustainable development of the nation and further its legacy of striking a balance between economic growth and sustainability. Having verified GHG reduction targets enhances the company’s value to its customers and stakeholders, and builds trust and transparency. For Shree Cement Ltd, science-based targets act as a proof point of the company’s commitment to sustainability and quality service.