Green Cement Transformation
Decarbonize through electrification and digitalization

Find out more about EcoStruxure™ for Cement
se.com/mining-minerals-metals
Collaborating to **contribute to progress** and meet **cement decarbonization** and **profitability targets**, with **energy transition solutions** designed for **sustainable manufacturing** from grid to cement.

The cement industry is responsible for **7%** global CO₂ emissions.¹

Customers are increasingly asking for green products to decarbonize their supply chain with a forecasted market value of low carbon cement market at **US $5 billion** by 2032.²

Your competitors are setting strong, science-based emission reduction targets with total number of dedicated companies crossing **3,600** in 2022.³

Global net zero targets require a different and decarbonised cement production technology, which includes **3%** annual decline of direct CO₂ intensity of production.⁴

¹ McKinsey & Company
² FactMR
³ SBTi Progress, Progress Report, 2022
⁴ IEA.org
Our digital energy, process and automation solutions help you to reach your decarbonization objectives.

We support your transition to new green technologies...

...while deploying our unique market leader expertise in energy management, green energy sourcing and integrated power & process.

<table>
<thead>
<tr>
<th>Emission abatement potential</th>
<th>&gt;5-15%</th>
<th>&gt;15 - 30%</th>
<th>&gt;30-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incremental Levers on existing assets</td>
<td>Energy efficiency</td>
<td>Alternative fuel injection</td>
<td>Waste heat recovery</td>
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1. New green production by design (greenfield)
2. Greening existing capacity (brownfield)
3. Energy supply strategy
4. Process energy management
5. Digitally integrated power and process
6. Data management and analytics

Enabler
Digitally integrated power and process solutions to reduce TotEx, enable continuous improvement and leverage green energy

- Energy + Automation
- End Point + Cloud
- Design and Build > Operate and Maintain
- From Site to Site > Integrated Management

Cement industry solutions along the entire plant value chain

New project building
1. Digital integrated power and process
2. New green production by design
3. Energy strategy & Supply

Energy management solutions

Operations – Digital solutions existing facility
1. Information and data analytics
2. OSIsoft

Operations – Technology solutions
1. Digital integrated power and process
2. Process energy management
3. Greening existing capacity
As recognized leaders in energy management, automation and integration with process, we bring sustainability and efficiency to your operations.

Why partner with Schneider Electric?

- **New “green by design” production capacity** with integrated power, process automation and software solutions.
- **Greening existing capacity** with an optimized energy system footprint and a decarbonized supply chain.
- **Energy supply site services** to optimize energy sourcing and companywide emissions monitoring to better manage your GHG footprint.
- **Process energy management** with our software, energy-efficient drives, and services.
- **Digital integrated power and process** to eliminate operational silos and improve production agility.
- **Data management and analytics**: With 50+ years of experience, we are #1 industrial software solution for the industry, with 1400+ sites in Metals, Cement, Mining & Minerals equipped.
We are uniquely positioned to help you throughout your cement process decarbonization journey

1. Close to you with a global network of 2,000+ dedicated sustainability experts and 6,500+ highly trained field services engineers

2. Leader in energy management covering 300,000+ sites and managing €30Bn of energy spend, ranked #1 in Energy-as-a-Service Solutions Provider by Navigant Research

3. 125+ Mt of CO₂ managed annually and the largest advisor of negotiated corporate PPAs with 13 GW+ since 2014

4. Unique partnerships with international energy suppliers to deliver end-to-end sustainability and power generation solutions

5. Technology leader with digitally integrated power and process and through our partnership with AVEVA’s outstanding software portfolio

6. 500+ system integrators and consultants across the globe to support our solutions, intimacy with global and local process OEMs

Make the most of a digitally integrated power and process environment for sustainable cement manufacturing

Let’s talk about

EcoStruxure™ for Cement

Innovation At Every Level