VICAT

Build together, live together

Decarbonisation in action

Vicat has set a clear decarbonisation trajectory for its cement business to achieve its net zero carbon emissions goal across the entire value chain by 2050 in line with the Paris Agreements.

Modernisation of the facilities for better energy efficiency, using alternative fuels to replace fossil fuels, reducing the clinker content and capturing residual emissions form **the 4 levers for action.**

▷ MAJOR OBJECTIVES FOR 2030

REDUCTION OF
↓ **40%**
in emissions related to electrical energy usage, half of which in actions to improve **energy efficiency** and renewable electricity self-production projects, the other half in low-carbon electricity procurement.

FOSSIL FUEL ELIMINATION WITH
↑ **50%**
of substitution fuels within the Group and almost 100% within the Europe zone.

REDUCE TO
↓ **69%**
the proportion of **clinker** in the cement.

LAUNCH
+2
carbon capture projects, including the VAIA project in France.

The carbon footprint of our products and services is improving from year to year, in line with our roadmap and the climate policies of each of the countries in which we operate.
In France, the country of the Group's historical roots, we are pursuing a particularly ambitious trajectory. It is based on major industrial investments, acceleration of our low-carbon innovations and close collaboration with local regions, sectors and public partners.

This dynamic takes shape in large-scale projects that fundamentally transform our processes, energies and products. Our teams everywhere are advancing with determination. This reflects our long-standing vocation and sincere intention to build a sustainable and resilient living environment.

Guy Sidos *Chairman and CEO of Vicat Group*

Four levers to make our cement industry carbon free

1 PROCESS ENERGY EFFICIENCY

This involves industrial modernisation to improve the energy efficiency of the production tools, thermal and electrical energy. Incremental improvements in kiln thermal performance and mill electrical performance in the cement plants are key everyday levers for the Vicat teams.
In regions where cement demand is on the rise, we are seeing capacity increases with latest-generation, less energy-intensive production tools.

In Montalieu, France, more than thirty years ago, the Group invested in a precalciner kiln system and more recently in two vertical mills to reduce the thermal and electrical energy consumption.

In Senegal, **our new line "Kiln 6"** integrated the best technology available right from the design stage to meet the country's constantly increasing demand for cement. Kiln 6 alone offers a capacity equivalent to 10,000 metric tons of cement per day. It is among West Africa and the Group's most modern equipment.

2 USING ALTERNATIVE FUELS

In 2025, the use of alternative fuels prevented the incineration or landfilling of **1.7 million metric tons of waste.**
Some sites like **Xeuilley in France** or **Reuchenette in Switzerland** are reaching **100% use**.

Energy and material recovery are a strong lever for economic performance.
Among others, alternative fuels include solid recovered fuel (SRF), tyres, solvents, oils, shredded wood and impregnated sawdust.
These fuels are replacing fossil fuel such as coal.
Materials with little or no energy value such as industrial sludge, ash or excavated soil are also recovered in our facilities when local regulations discourage landfilling.

Our commitment is supported by the launch of dedicated subsidiaries such as CIRCULère in France, Altola in Switzerland and Çözüm in Turkey.
These subsidiaries collect, treat and recover local waste, transforming environmental constraints into economic opportunities for local regions (added value, jobs, soil decontamination, etc.).

3 REDUCING CLINKER CONTENT IN OUR CEMENT

Concrete, produced from aggregate and cement (glue binding the aggregate particles together), is the most important material for building housing and infrastructure.
But clinker, the main component of cement, is responsible for a significant proportion of CO_2 emissions.
Optimising clinker content in cement through partial substitution is an effective decarbonisation option and one that also preserves or improves the performance and implementation qualities of concrete.

This is based on greater use of substitution materials such as activated clay.
In Brazil, for example, our teams offer the market cement with 58.7% clinker on average, limiting its carbon footprint to 468 kg CO_2/metric ton, which is already below the Group's mean target for 2030.

ARGILOR manufacturing cement with a reduced carbon footprint

This large-scale decarbonisation project, operational since 2025, was selected by the first Recovery Plan funded by the French government and operated by ADEME. It relies on an innovative process that uses the properties of clay, a **locally produced natural resource,** to reduce a proportion of the clinker with thermally activated clay and produce cement with low carbon content but comparable performance.

CARAT the binder that stores biogenic carbon

Our Carat binder, produced in the Montalieu cement plant, reduces the carbon footprint per m^3 of manufactured concrete by almost 90% to 20 kg CO_2/m^3*. With reduced clinker content, it is enriched with biochar, a **biosourced substance** generated from the pyrolysis of French forest residues and recognised as a sustainable carbon storage solution. Carat was chosen for the Paris 2024 Games Olympic Village, the regional headquarters of Léon Grosse in Bron and will soon be used for the new Builders engineering school campus in the Lyon area.

**: according to NF EN 15804+A1/CN*

PROGRESSO concrete with less than 100 kg of CO_2/m^3

Vigier CEM Progresso, a low environmental impact product manufactured in Switzerland, is revolutionising concrete construction. Made mainly from **local recycled materials or co-products from other industries,** this cement significantly reduces CO_2 emissions without compromising on performance. Compatible with recycled concrete mixes (ECOVISION), Vigier CEM Progresso combines versatility and ecology, reinforcing its role in achieving climate targets and transitioning to sustainable construction practices.

4 INITIATE MAJOR CCU / CCS PROJECTS

(carbon capture usage / storage)

VAIA - Montalieu, spearheading decarbonisation in the Rhône Corridor.
The VAIA (Vicat Advanced Industrial Alliance) decarbonisation project aims to capture the **1.2 million metric tons** of CO_2 emitted per year at the Montalieu site in Isère. VAIA **creates a carbon value chain** and constitutes the anchor point for an comprehensive CO_2 **capture, transport and storage network along the entire Rhône Corridor as far as Fos-sur-Mer.**
The captured CO_2 will be transported using an existing pipeline, converted into a "carbonduct" to Fos-sur-Mer where it will be liquefied before being transported by sea to the geo-storage site for permanent sequestration.

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> VAIA helps meet European and national greenhouse gas emission and industrial decarbonisation targets.

> VAIA helps maintain industry and job dynamics in local regions, making use of the existing infrastructure.

> VAIA combines the know-how and expertise of French stakeholders (VICAT, SPSE, ELENGIE, RTE, etc.) in a key strategic area.

Funded by the European Union
Emissions Trading System
Innovation Fund

CI4C

Vicat's commitment to a low-carbon cement plant for the future

The **CI4C – Cement Innovation for Climate** project embodies the ambition shared by Vicat and its European partners to fundamentally change the cement industry. With the construction of a pilot "semi-industrial" facility at the Mergelstetten site in Germany, we are developing disruptive technology: **the Pure Oxyfuel process** replaces ambient air with pure oxygen in the cooking kiln. This innovation reduces the amount of plant gas output and increases the concentration of CO_2, making **almost complete capture** both simpler and more efficient.
Thanks to this breakthrough, the captured CO_2 can be **recovered or stored**, paving the way for new industrial models. Alongside Dyckerhoff (a German subsidiary of Buzzi), Heidelberg Materials and Schwenk, Vicat is fully committed to this demonstrator that is unique in Europe and designed to prepare for widespread carbon capture in our sector.

With CI4C, we are confirming our ambition to actively contribute to the energy transition and build a**low-carbon cement** plant,that is efficient and resolutely future-oriented.

Visit us on social media and on our website

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Design and printing: Les Topographes | Photography credits: @Vicat, @Defours