

CONCRETE
VERDI ZERO

Let's shape
the future

PORTUGAL'S **FIRST**
CARBON NEUTRAL
CONCRETE



BETÃO



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A woman with long blonde hair, wearing a blue jacket, is sitting on the forest floor in a dense forest of tall, thin trees. She is holding an open book and looking upwards. The forest floor is covered with pine needles and small green plants. The background is a thick wall of green foliage.

Secil Sustainability



Protecting the planet and our people, reconciling economic performance with environmental respect and responsible citizenship are the foundations of our strategy, and they underpin the Secil Group's business today and in the future.

WE CREATE VALUE WITH SUSTAINABILITY

We are committed to keeping up with international trends and guidelines in the area of sustainability, always endeavouring to make our performance compatible with environmental respect and responsible citizenship.

CONCRETE

- ONE OF SOCIETY'S MOST CRUCIAL AND INDISPENSABLE PRODUCTS
- UNIQUE PROPERTIES

MOST-USED MANUFACTURED PRODUCT ON THE PLANET

Our response to **global climate change** involves:



REDUCING THE CARBON INTENSITY OF PRODUCTION

Promoting new solutions that contribute to **more efficient and sustainable construction**



CIRCULAR ECONOMY

Product development with a focus on **circular economy and use of by-products**



PROMOTING BIODIVERSITY

Promoting the vitality and **balance of ecosystems and landscape recovery**

CLOSE RELATIONSHIPS WITH THE COMMUNITY, WITH OUR STAKEHOLDERS AND WITH INSTITUTIONS AND INSTITUTIONAL PARTNERS.



Use of **alternative fuels, secondary raw material** and the **development of low-carbon products and solutions.**

TECHNOLOGY

We value the application of the best production and control technologies, aiming for more efficient and cleaner production.


SECIL INNOVATION

We continually innovate with new manufacturing and management processes, creating safe solutions and quality products that create more value for the company, the customer and society.





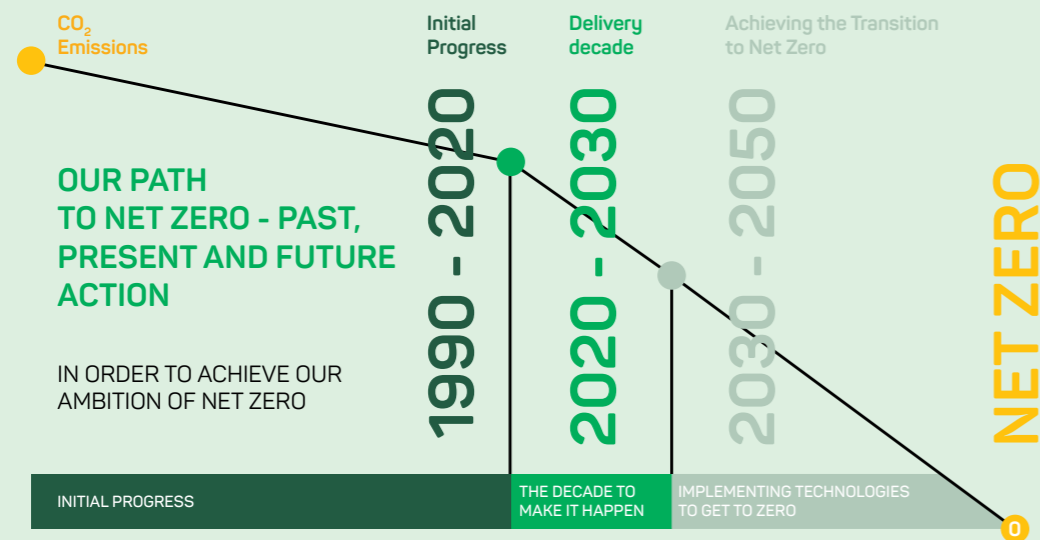
Decarbonisation in the Secil Group



The issue of decarbonisation and the commitment to reducing greenhouse gas emissions is increasingly present in companies' activities.

CARBON NEUTRALITY IN 2050

- **Commitment to reduce the CO₂ emissions associated with the value chain**, by developing a set of projects that focus on:



DECARBONISATION ROADMAP

The GCCA, ATIC and CEMBUREAU play a significant role in the sustainable development of the cement and concrete industries. The Secil Group, as a member of these organisations, follows their lines of action.



COMMITMENT SCIENCE BASED TARGET INITIATIVE



DEFINITION OF
INTERNAL STRATEGIES
AND TARGETS FOR
**REDUCING EMISSIONS
IN THE NEAR TERM
(2030)**

1.5°C

LIMITING THE INCREASE IN GLOBAL WARMING TO 1.5°C

OPERATION

Minimising impact by increasing energy efficiency in facilities / equipment and using alternative fuels

Clean Cement Line Project

PRODUCT

Minimising product impact by reducing the carbon intensity of clinker, through cement with less clinker and through concrete with less cement

Low Carbon Clinker Project

TRANSPORTATION

Minimising impacts and optimising distribution logistics using digital platforms and favouring sea and rail transport. In the specific case of concrete, we use plug-in hybrid concrete mixers, combining traditional and electric technology

CARBON FOOTPRINT REDUCTION STRATEGY

Realising that our growth is directly related to the sustainability of our actions, we have invested significantly in innovating production processes and products.

With various research and development partners, we have implemented a series of projects focused on reducing the carbon footprint of our value chain.

Market Trends

The market is increasingly sensitive to, and demanding information about, the **impact of CO₂ on building materials.**

Customers are looking for greener solutions and evidence the trend towards building **Green Buildings** and the respective **environmental accreditations** – BREEAM and LEED.



BUILDINGS PLANNED TO HAVE **LESS IMPACT ON THE ENVIRONMENT**



PLANNING TAKES PLACE AT EVERY STAGE OF THE LIFE CYCLE



USE OF **GREEN MATERIALS**, SOLAR PANELS AND RAINWATER COLLECTION

GREEN BUILDINGS



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The launch of Portugal's first carbon neutral concrete - **VERDI ZERO CONCRETE** - is a major step towards building a greener future, with more durable infrastructures and buildings that have less impact on the environment.

It was based on a SECIL innovation at product development level, complementing internal efficiency measures and the use of renewable energy, guaranteeing, right from the start, a significant reduction in CO₂ emissions.



CARBON NEUTRAL CONCRETE



**ACCREDITED
CarbonNeutral® PRODUCT**

Thanks to the combination of reducing climate impact throughout the life cycle and offsetting residual emissions through a carbon offset programme certified by Climate Impact Partners and which has been awarded the carbon-neutral product label



**USE OF RAW MATERIALS
THAT PROMOTE THE CIRCULAR ECONOMY**

By incorporating recycled waste, which means less use of natural resources

USE

Can be used for any structural elements

TYPE OF WORK

New work or renovation

FORMAT

Ready to use

**WITH VERDI ZERO
CONCRETE YOU CAN:**



Easily reduce the **environmental impact** of your project without compromising performance



Contribute to the **circular economy** by incorporating waste that would go to landfill



Make it easier to obtain **environmental accreditations** for the construction of sustainable buildings



Maintain product **resistance and quality**



Have a **wide range of products** available for different resistance classes and applications, in compliance with industry standards



Easily **handled, pumped and finished** like conventional concrete

THE ROAD TO A CARBON NEUTRAL PRODUCT



The main purpose of the Environmental Product Declaration (EPD) of **VERDI ZERO CONCRETE** is to demonstrate its environmental performance, based on a Life Cycle Assessment (LCA) study.

With this information it is possible to compare and select products and services with a lower environmental impact, as well as aim for more demanding markets where this information is fundamental, increasing competitiveness.

BENEFITS

The results obtained through these studies provide detailed knowledge of the implications arising throughout the product manufacturing process, making it possible to identify:

- Opportunities for improvement in the processes that make up the product system;
- Solutions for optimising the sustainability of manufacturing processes and the entire organisation.

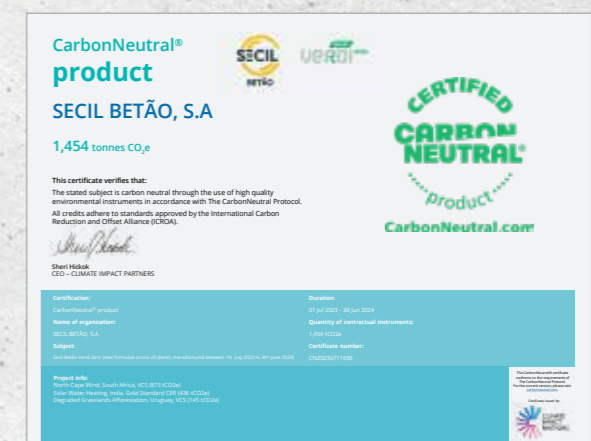
The **SBTi** (Science Based Target Initiative) is a global body that allows the setting of **ambitious emission reduction targets in line with the latest climate science**. It is focused on accelerating companies and financial institutions around the world to halve **emissions before 2030 and achieve Net Zero by 2050**.

The **Secil Group** has joined the **SBTi** and has made the **commitment to align with the defined science trajectory of limiting the increase in average global temperature to 1.5°C by 2030**.



VERDI ZERO CONCRETE is certified as a **CarbonNeutral® product** in accordance with CarbonNeutral Protocol, which is the **framework world leader for carbon neutrality**.

This is achieved by offsetting the remaining emissions through **external emission reduction projects** and ensuring that, for every tonne of CO₂ emitted by **VERDI ZERO CONCRETE**, there is one tonne less in the atmosphere.



AFFORESTATION



WIND ENERGY



HEATING
SOLAR WATER



CO₂ EMISSION OFFSET PROJECTS

Secil is currently supporting carbon reduction initiatives in the areas of afforestation, wind energy and solar water heating.

These projects are thus a way of reducing our carbon footprint and contributing to the sustainable development of local communities.



WHY CHOOSE VERDI ZERO CONCRETE?

The fact that we're offsetting carbon emissions for **VERDI ZERO CONCRETE** means that when you choose to build with this product, you can contribute to your company's net zero targets, as well as help to meet your customers' growing sustainability requirements.

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VERDI ZERO

VERDI ZERO CONCRETE already includes offsetting, and a rigorous process has been carried out to select a carbon offsetting programme. Projects are independently monitored and verified to ensure that emission reductions are being generated.

We only buy carbon credits certified under the Gold Standard or Verified Carbon Standard (VCS), as these standards are globally recognised and respected for their high levels of environmental integrity.

Sustainable Development Goals

At SECIL we follow and respond to the Sustainable Development Goals established by the United Nations.

As such, the 3 projects chosen for carbon offsetting are aligned with our priority objectives.



COMMITTED TO THE FUTURE

The Sustainable Development Goals established by the United Nations Organisation define global priorities and aspirations for 2030 and call for global action by governments, businesses and civil society to eradicate poverty, reduce social and gender inequalities and combat climate change.

SECIL's SDGs

In line with the rest of the Semapa Group, in which the Secil Group is included, we have identified seven priority and aspirational Sustainable Development Goals which we have integrated into our agenda of activities and to which we try to respond with concrete initiatives that cut across the entire group.

We are committed to ensuring a brighter future, which is why we have created a Sustainability Policy that combines our actions with the best environmental and citizenship values.

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