

Through co-processing, we manage agricultural production waste in an environmentally responsible way, utilizing its energy content as alternative fuels to power the cement kilns in our plants. This approach reduces greenhouse gas emissions both in cement production and in the decomposition process of these residues, which are no longer discarded in landfills and dumps.

Biomass: nothing is lost, everything is transformed

Wheat is part of our life. Its grain is used to make flour, an ingredient widely used in human food. It's in our morning bread, our bowls of pasta and the pizza we share with friends. What few people know is that only part of the wheat that is harvested reaches our table as food. Just like other crops such as rice and corn, there are also leftovers in the processing of wheat. For these agricultural production residues - wheat straw, corn cobs, and rice husks - we have a sustainable disposal solution. Where everyone sees a problem, we see an opportunity.

1 PLANTATION

2 CROP PROCESSING

3 BIOMASS PREPARATION

4 VERDERA BUSINESS UNIT AT VOTORANTIM CIMENTOS PLANT

Verdera, our waste management business unit, is a partner in the proper disposal of biomass, offering a solution to the agricultural sector that ensures traceability and contributes to the sustainability of the planet

5 TRANSFORMATION INTO ENERGY IN CEMENT KILNS

6 CEMENT PRODUCTION

7 SALE TO THE CONSUMER MARKET

FOR US, THE CLIMATE AGENDA ALSO MEANS COMPETITIVENESS

- The most competitive businesses will be those with the lowest greenhouse gas emissions. Therefore, the circular economy is part of our daily lives. We carry out thermal substitution in our cement kilns, replacing fossil fuels with alternative fuels, such as biomass, used tires and urban and industrial waste that cannot be recycled. By doing so, we help reduce the volume of waste that would end up in landfills, while also reducing our CO₂ emissions, helping to decarbonize our planet.
- For us, sustainability is a strategic driver and a pursuit that goes hand in hand with our history, which began in 1936 - more than 80 years ago. Decarbonization, defined as the reduction of CO₂ emissions, is one of our sustainability commitments.
- Driven by ambitious science-based targets, reducing the use of fossil fuels is an important lever for reducing emissions. The co-processing of biomasses is one example of how Votorantim Cimentos, a building materials and sustainable solutions company, is also contributing to the decarbonization of the planet.

8 CONSTRUCTION OF HOUSES, SANITATION, INFRASTRUCTURE, ETC.