

COMPANY NAME

Group of companies in the construction sector

**CHALLENGE TEMPLATE****CHALLENGE CODE**

22.1 GRUPO CONSTRUCCIÓN

TITLE

CEMENT WITH LOW CARBON FOOTPRINT

DESCRIPTION

Any company involved in the manufacturing processes of the construction sector and wishing to be aligned with sustainability objectives must necessarily innovate to reduce or eliminate the resulting CO2 emissions.

The challenge is the following: how to reduce the carbon footprint of cement for the construction of concrete roads.

HOW COULD WE

Considering some of the components that make up the composition of concrete (with a special focus on clinker), how could we influence or vary its manufacturing process in a physical or chemical way, so as to reduce the resulting carbon footprint.

SELECTION CRITERIA

- Complexity of the proposed solution
- Level of change required in manufacturing infrastructure
- Approximate costs inherent to the implementation
- The possible development of a new process or material, which due to its novelty and innovation level, can be protected by patent or utility model, will be assessed

TARGET INDICATORS

- Level of carbon footprint reduction
- Feasibility/Cost and Value/Cost Ratios

REQUIREMENTS

The cement to be designed has to meet the technical specifications for low carbon footprint cement.

CHALLENGE TYPOLOGY

✓ Process

Technology

Business

✓ Product

KEYWORDS

CEMENT, LOW CARBON FOOTPRINT