

Acting on Climate
#LHLowCarbonTransition

Lafarge 360Design: a Digital Simulator to Calculate the Carbon Footprint of a Building

What is the challenge?

The carbon footprint per square meter is a key indicator for the construction sector which targets carbon neutrality by 2050.

Building companies need to choose the most adequate building design to meet their carbon footprint objective.

How can we contribute to design low carbon buildings ?

Key figures

40% of French annual GHG come from buildings operations

20% of GHG due to the construction of new buildings come from the concrete manufacturing

Our solution

<https://lafarge360design.fr/>

Lafarge 360Design is a digital simulator to design low carbon structural works of a building.

Entering different options of the building project (number of storeys, number of housings, type of foundations and roof,...), the simulator automatically calculates the carbon footprint of concrete structural works. Data come from 80+ projects in France and the database will regularly increase to fine tune estimations.

Designers can modify their project in the conception phase to better target low carbon buildings.

360
design



LafargeHolcim