

# Future50

Built Environment

Low-GHG Construction Processes



GraphenePioneer



<https://www.graphenepioneer.com/>

#BuiltEnvironment  
#ClimateTech

## Highlights

GraphenePioneer has participated in the **Climate Launchpad**, one of the largest global green competitions supported by **EIT Climate-KIC** (European Institute of Innovation and Technology).<sup>323</sup>

## Strategic alliances:

- Investors
- Construction Companies
- Universities
- Government Research and Development (R&D)

## List impact technologies

Low-GHG Concrete, Smart Building, High-Efficiency Heating and Cooling

## Headquarters:

Netherlands

## Middle East operational countries:

Egypt, Iraq, Saudi Arabia, United Arab Emirates

## Summary

GraphenePioneer is a **nanotechnology company** that seeks to **create sustainable building materials** by introducing graphene into existing processes. The company states that graphene-in-concrete is possible due to its “graphene machine”, a device that can be used alongside the standard production of concrete and other composite materials.

## Impacts

Graphene-enhanced sustainable building materials aim to contribute to **decarbonisation, decrease resource consumption and CO2 emissions**,<sup>322</sup> and improve energy efficiency. GraphenePioneer notes that introducing graphene into the cement should help maintain the desired temperature in buildings, and using this technology, the construction industry can better achieve its goal to **reduce energy consumption and GHG emissions**.