

**Technical solutions**

# COMPACT, social innovation for low-carbon construction

## Description of the project

COMPACT is a social start-up for low-carbon construction using local materials. It addresses the booming use of GHG emitting concrete in Senegal. The founders, a female engineer, and a female entrepreneur, industrialized the production of Compressed Stabilized Earth Bricks (C.S.E.B.) that reduce cement use by 30 to 50%. They raised the technical skills of 20 local workers,

and advocated towards governments, local authorities, design labs and architects to adapt standards in the building sector. Their first CSEB constructions serve women-led SMEs with a house for women fishers and small shops for an antique market. COMPACT employs workers living with disabilities, covering their medical care.

## Transformative Results

Compressed Stabilized Earth Block (CSEB) reduces carbon emissions by 30-50% versus standard cement or concrete.

Reduces the use of toxic chemicals and promotes safe, eco-friendly buildings for sustainable cities.



Mentoring program by women entrepreneurs guides the managerial decisions of COMPACT.

Safe, sustainable buildings address the needs of underserved women groups and SMEs.

Responsible company policy for employee medical care.

Research & Development ensures continuous innovation, producing ready mixes for a large dissemination of CSEB technique.

Raising awareness in the workers' communities for the adoption of CSEB technique.

Collaborates with the government of Senegal to build 46 citizens houses using CSEB.



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