

Concrete is the most widely-used manufactured substance on Earth

Toob
 tons of material extracted from the earth each year
 ⇒ agriculture, forestry, mining, oil/gas

>30% by mass for concrete

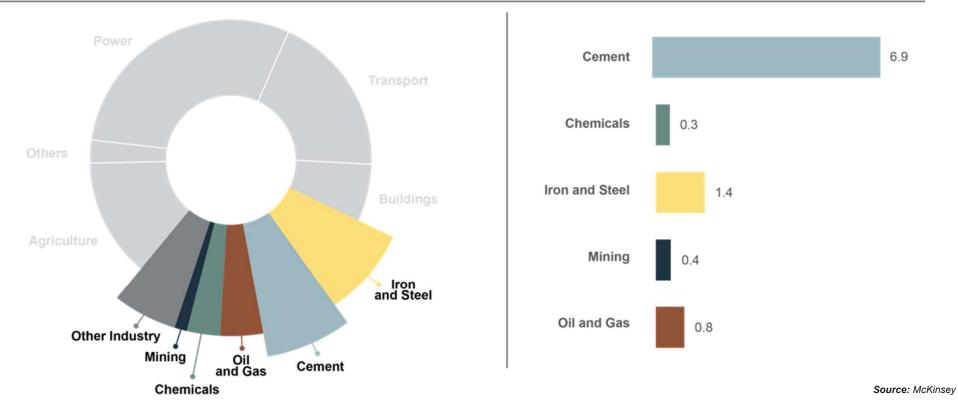
→ limestone, clay, sand, rock

~\$1.2 trillion/year market

Concrete's key ingredient, cement, is the hardest-to-abate major source of CO₂

Share of Global CO₂ Emissions by Industry, % in 2017

kG of CO2 per \$



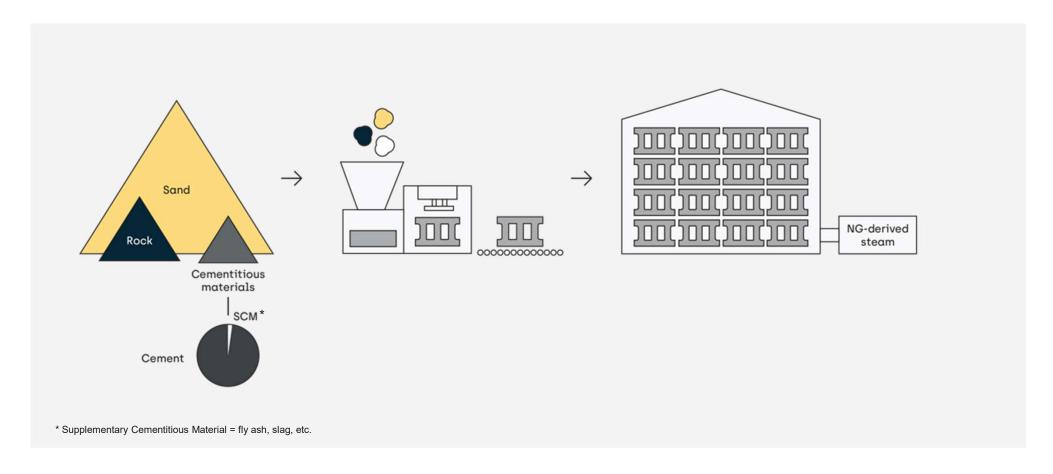


CarbonBuilt reduces the embodied carbon of concrete products by 70 to 100+% with no compromise to price, performance, or plant operations.

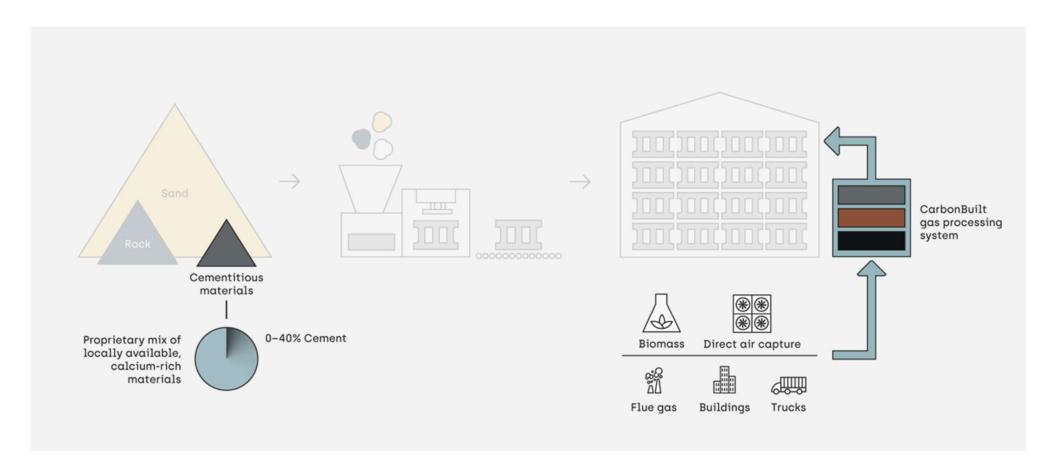
Today.



Today's concrete products are made with carbon-intensive Portland cement

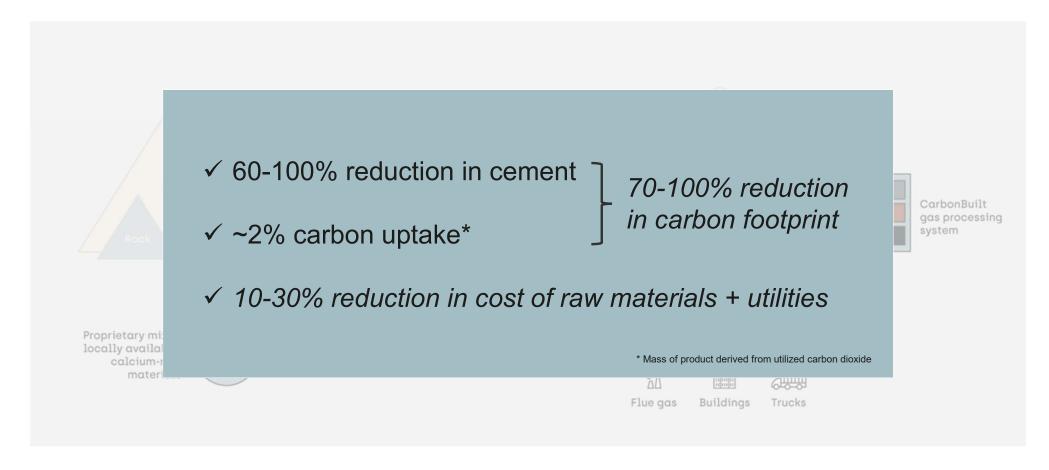


CarbonBuilt replaces cement with low carbon, low cost, highly scalable materials and CO₂





The impact





Rigorous third-party testing confirms compliance with existing industry standards



ASTM C90

- · Compressive strength
- · Water absorption
- Dimensional accuracy
- Weight and density can be adjusted to match desired levels



Code Compliance

• Code compliance report with acceptance criteria



Performance Verification

- Stress-strain relationship
- Modulus of rupture & failure mode
- Modulus of elasticity (TMS 402)
- · Shrinkage and creep
- Flexural bond strength (ASTM E518)



CO₂ Utilization Verification

ISO 14034





Project #1 – Montgomery's New Fire Station











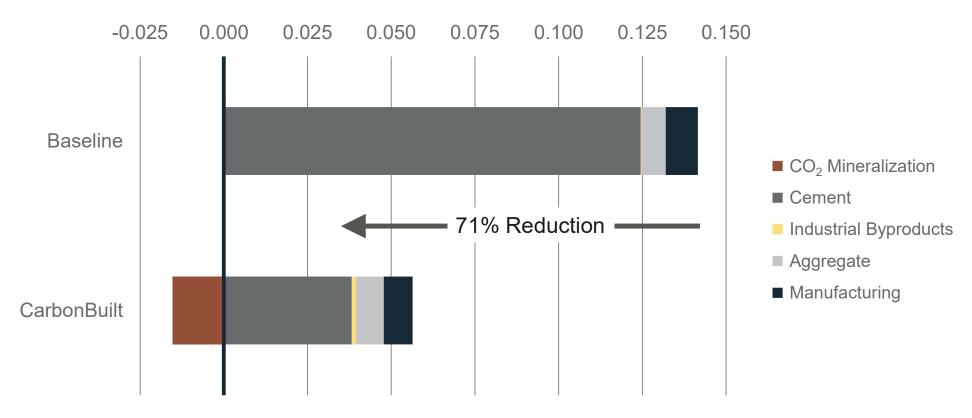






Blair Block: Embodied Carbon Impact

Embodied Carbon (kg CO2 / kg concrete)



Blair Block: Economic Impact

Revenue Increase	13%
COGS Decrease	36%
Gross Margin Increase	46%
Net Margin Increase	>350%