LOW CO₂ CEMENT
INSPIRED BY NATURE
COSTS LESS TO PRODUCE

60% REDUCTION IN CO₂ EMISSIONS

MEETS EXISTING REGULATIONS

SAME HANDLING AND PERFORMANCE

LEVERAGES EXISTING RAW MATERIALS AND INFRASTRUCTURE
CEMENT IS AN OPPORTUNITY TO GLOBALLY REDUCE CO₂

- 2nd most consumed product on Earth, behind water
- 4.2 Billion tons of cement produced per year
- 3.5 Billion tons of CO₂ produced per year
- 8% of global CO₂ emissions

FORTERA BRINGS NATURE TO THE CEMENT INDUSTRY

Coral reefs and seashells use CO₂ as a cement ingredient in order to form hard materials in the ocean.

Fortera adapted this natural process into a method for making cement that uses CO₂ instead of emitting it.

COSTS LESS TO PRODUCE AT EVERY STEP AND SCALE

<table>
<thead>
<tr>
<th>CEMENT</th>
<th>FORTERA</th>
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<tbody>
<tr>
<td>4 inputs</td>
<td>Only 1 input simplifies production</td>
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<tr>
<td>1450°C processing</td>
<td>900°C processing enables less energy use</td>
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<tr>
<td>1/3 feedstock lost as CO₂</td>
<td>100% feedstock utilization means no product loss</td>
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<tr>
<td>$40-70 per ton</td>
<td>10% lower production cost</td>
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CONVERTS WASTE STREAM INTO FINISHED PRODUCT

Calcined Limestone 0.57 tons Calcium and Alkalinity (CaO) + Kiln Exhaust 0.43 tons Carbon Dioxide (CO₂) = Fortera 1.0 ton Reactive Calcium Carbonate (CaCO₃)
60% REDUCTION IN CO₂ EMISSIONS PER TON

ADDRESSES CO₂ EMISSIONS DIRECT FROM THE KILN

<table>
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<tr>
<th>CO₂ from Equipment</th>
<th>CO₂ from Energy Use</th>
<th>Process CO₂ from Converting Limestone to Lime</th>
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<tbody>
<tr>
<td>10%</td>
<td>40%</td>
<td>50%</td>
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PORTLAND CEMENT

FORTERA

Can achieve ZERO CO₂ emissions through integration with clean energy

LOWER SITE EMISSIONS
Prevent up to 2.5 GT CO₂ per year

CARBON TO VALUE
Create a saleable material

PERMANENT STORAGE
Ready for use in concrete
MEETS EXISTING REGULATIONS AND IS READY TO SCALE

- **TECHNOLOGY PROVEN IN LAB**: 10 years and 100k hours of R&D
- **PILOT PLANT PRODUCTION**: 100k pounds of material produced
- **COMMERCIAL PROJECTS**: Infrastructure and flatworks projects

1st COMMERCIAL PLANT
Commercial production in 2022

- **STARTING MATERIALS ARE AFFORDABLE AND GLOBALLY AVAILABLE**
- **SEAMLESS INTEGRATION WITH EXISTING CEMENT INFRASTRUCTURE**
- **LESS ENERGY DEMAND WITH A SIMPLER CHEMISTRY**
- **FINISHED PRODUCT IS MADE OF 44% MINERALIZED CO₂**
- **MEETS SAME PERFORMANCE STANDARDS AS OPC AT A LOWER PRODUCTION COST**

THE FIRST LOW COST LOW CARBON CEMENT ENGINEERED TO REDUCE CLIMATE CHANGE ON A GLOBAL SCALE
FORTERA IS DEDICATED TO THE GLOBAL GOAL OF REDUCING CO$_2$ EMISSIONS BY A TERATON