

This is what
CO₂-storage can
look like with
Clim@Add®



Clim@Add® - a Biochar Based Additive

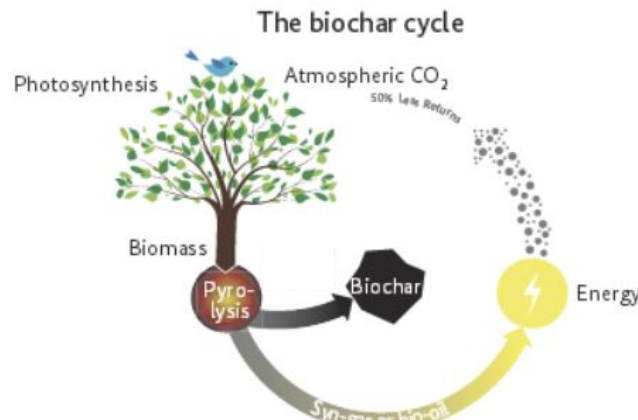
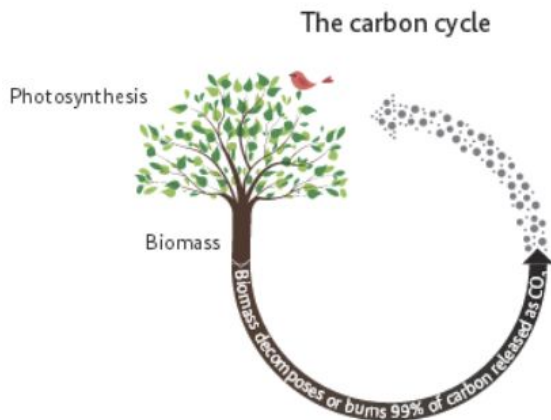
- Clim@Add® can mitigate CO₂ emissions and natural resource depletion in concrete and asphalt applications.
- Creation of durable carbon sinks and additional co-benefits such as: replacement of finite raw materials (ex. cement) and improved material properties.
- We can realize almost any kind of concrete application with little or no adaptation in production processes.



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As of today we have realized 6500 m³ climate concrete in precast concrete, ready-mix concrete and asphalt projects.

1 t of biochar can Avoid and Store up to 2.5 t CO₂



- Through Pyrolysis the carbon is bound and the release of CO₂ back into the atmosphere is prevented.
- Surplus biogas and heat can be used as CO₂-neutral energies.
- Biochar can be used as a valuable raw material.

Biochar in Construction

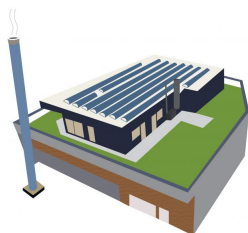
- Potential and responsibility of an industry with high emissions and high consumption
- Long-term storage of atmospheric CO₂ - the technical carbon is integrated into the mineral building material matrix, remains even after recycling.
- High technology maturity (TRL 9) compared to other CCS technologies - a massive and rapid build up of carbon sinks is possible.
- Compatible with other sustainability solutions of the industry.



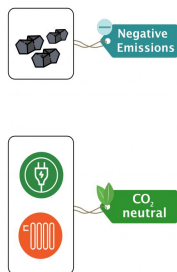
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Durable carbon sinks, multiple co-benefits and innovative insetting methodologies make biochar the solution for the construction industry.

Our Technology



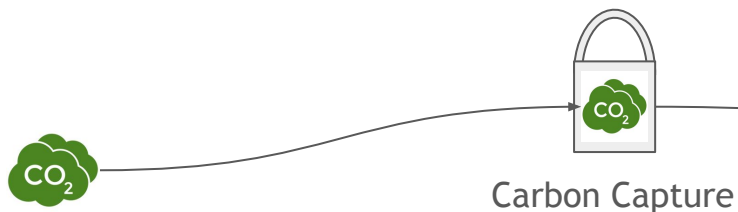
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Clim@Add®



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Carbon Capture

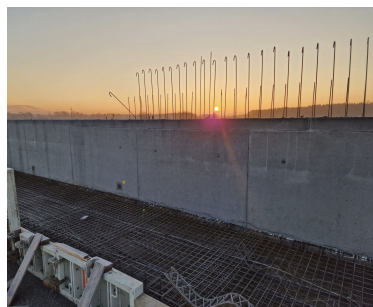


Permanent Carbon Storage

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2023 New Hall for Pyrolysis Plant and Processes, Sonnenerde GmbH

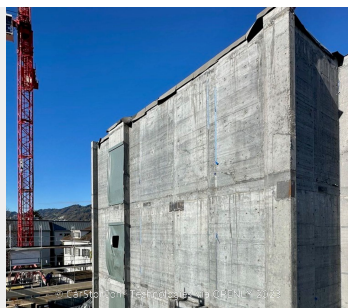
Parts realised with climate concrete	<ul style="list-style-type: none"> • Pillars • Flooring, walls, ceiling
Concrete quantity	<ul style="list-style-type: none"> • ~ 3006 m³
Sequestered CO ₂	<ul style="list-style-type: none"> • Sequestration through Clim@Add® ~260 t



CarStorCon® Technologies, Jan 2024

2023 OPEN 1, Terraced Family Homes, Widnau, CH

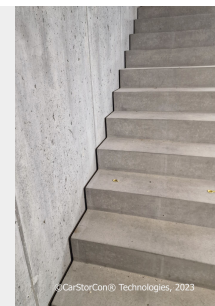
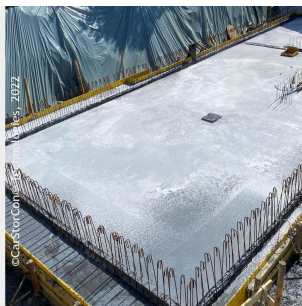
Parts realised with climate concrete	<ul style="list-style-type: none"> Basement Flooring, ceiling, walls
Concrete quantity	<ul style="list-style-type: none"> 787 m³
Sequestered CO ₂	<ul style="list-style-type: none"> Sequestration through Clim@Add® - 73.1 t



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Reference project: Family home, wood-concrete-hybrid construction

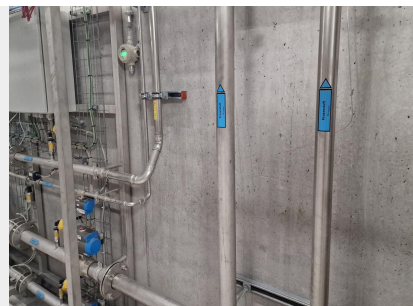
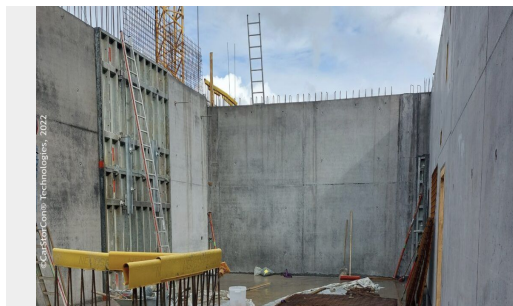
Parts realised with climate concrete	<ul style="list-style-type: none"> • Basement, ceiling, walls • Stairs (prefabricated) • Carport
Concrete quantity	<ul style="list-style-type: none"> • 130 m³
Sequestered CO ₂	<ul style="list-style-type: none"> • Sequestration through Clim@Add® - 8.6 t



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Reference project: Woodgas and saw workshop, Strass im Attergau

Parts realised with climate concrete	<ul style="list-style-type: none"> • Pillars • Basement, ceilings, walls
Concrete quantity	<ul style="list-style-type: none"> • 2231 m³
Sequestered CO ₂	<ul style="list-style-type: none"> • Sequestration through Clim@Add® - 101 t



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Asphalt Pilot with Clim@Add® AC

The project	<ul style="list-style-type: none"> Renewed road surface after connecting new users to the district heating network.
Asphalt	<ul style="list-style-type: none"> 110 m
Sequestered CO ₂	<ul style="list-style-type: none"> Sequestration through Clim@Add® - 6.8 t



CarStorCon® Technologies, Jan 2024

Customized Solution Development



- Establishing regional value chains with manufacturers /operators and users for maximum climate benefits
- Partnership-based solution development for concrete and asphalt projects
- Almost any type of concrete application can be realized without or with only minor adjustments to the production processes.
- Clim@Add® is compatible with other sustainability solutions (wood hybrid construction, recycled materials, CO₂-reduced cements) and is fully recyclable.

Let's stay in contact



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"We transform concrete and asphalt into CO₂ sinks and improve the material properties of the products at the same time. Because we believe that climate protection and building material innovation must and can go hand in hand."