CAR1480

Low-Carbon Cement – USA

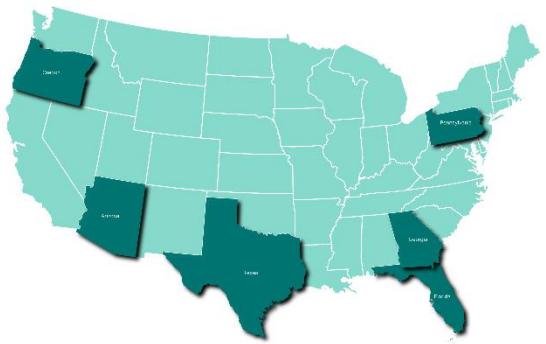
Summary: Cement production is a major contributor to global CO2 emissions, accounting for approximately 8%. Eco Material Technologies offers a solution by producing innovative supplementary cementitious materials (SCMs) that replace traditional Portland cement. These low-carbon alternatives, including natural pozzolans and harvested fly ash, not only reduce GHG emissions but also improve concrete performance, divert waste from landfills, and support a circular economy. Through partnerships with ClimeCo and the Climate Action Reserve to develop the first-ever U.S. Low-Carbon Cement Protocol, Eco Material Technologies is incentivizing the adoption of sustainable cement alternatives and driving positive change in the industry.

Key Activities: Eco Material Technologies produces sustainable cement alternatives by reclaiming fly ash, processing natural pozzolans, and generating other novel SCMs. They serve over 4,000 unique customer locations and recycle 10 million tons per year of material. The emissions reductions are then quantified and credited through the Climate Action Reserve.

Benefits: Drastically reduces emissions, improves concrete performance, and reclaims waste, promoting a circular economy while protecting the environment.



Project Overview



Location	USA, Multiple Locations
Project Size	100,000 tCO2e+ per year
Registry	Climate Action Reserve
Methodology	U.S. Low-Carbon Cement Protocol V1.0
Credits over Project Life	>5 million (equivalent to taking 1 million cars off the road each year)
Status	Currently issuing

Achievements to Date

+ **Lowers carbon emissions by 80%+** compared to portland cement
+ **Over 400,000 metric tonnes of CO2 avoided** in 2025
+ **7 facilities** generating novel replacements for Portland cement



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NATURE-BASED PROJECT (VCS872)

Protecting Afognak Forest

Summary: Afognak Island has retained large tracts of undisturbed native trees (180-250 years old) along with regenerated growth of trees over the past 30 years. Afognak is also home to Alaska's largest herd of elk, numbering approximately 900. The project represents over a decade's worth of dedicated efforts by dozens of individuals, in partnership with the Rocky Mountain Elk Foundation and the American Land Conservancy, to conserve a truly unique ecosystem in perpetuity. In 2008, this pioneering effort affected a shift from timber production management to conservation management across the five parcels that constitute the Afognak Project. The Afognak forest carbon project represents the first project of its kind in the state of Alaska.

Key Activities: Preservation of the Afognak Island forests

Benefits: Through the project, The Native Villages have been able to enhance transportation and provide supplies for repair an Afognak youth camp, and provide much-needed repair to tribal buildings, including a preschool. The project prevents land disruption and GHG emissions from timber logging, and restores and protects habitat for native plant, mammal, bird, and fish species.



Project Overview



Location	Afognak Island, Alaska
Project Size	3,320 ha (8,200 acres)
Registry	Verra
Methodology	VM0012
Credits over Project Life	1.4M
Status	Project issuing credits, Next issuance 2026

Achievements to Date

+ **1.15M tons** issued through 2024
+ **2,000 ha of 200-yr old forest** protected from harvest
+ **>$5M in revenue** generated for Indigenous land owners
+ **$50k donated** by ClimeCo to Afognak youth programs



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