



Gevo

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GEVO

[Link to Project Enrollment Opportunities](#): Coming Soon

Short Summary: Expands markets for climate-smart corn in IA, MN, NE, SD and tribal areas and supports farmer implementation and monitoring of climate-smart practices.

Full Description:

The GEVO Climate-Smart Farm-to-Flight Program

The project aims to create critical structural climate-smart market incentives for low carbon-intensity corn as well as to accelerate the production of sustainable aviation fuel to reduce the sector's dependency on fossil-based fuel. This project includes an immediate market opportunity to sell climate-smart, low-impact corn. The project plans to use existing relationships within the airline industry to secure offtake agreements for low-carbon intensity sustainable aviation fuel and other biofuel purchasers. The project plans to establish an advisory council, which will include members from underserved groups, specifically focusing on gender equality and minority representation from the Native tribal organizations, to ensure project design and implementation adequately account for underserved producers and communities. Program materials, education and training are planned to be centered on minority-owned farms and the benefits of enrolling their farm acreage in a climate-smart commodities program; this project also specifically aims to enroll two historically underserved groups: women (majority female-owned farms) in southeast Iowa and southeast Nebraska and Native American tribal organizations in South Dakota, including the Standing Rock Sioux Tribe. The project team plans to deploy an MRV platform that quantifies GHG benefits with the Argonne GREET lifecycle analysis model, with blockchain-based smart contracts that create efficient market mechanisms to facilitate the monetization and scaling of climate-smart commodities, GHG benefit attributes, and related instruments. The project also plans to work to identify new technological approaches to assess alternative approaches to minimize the frequency, intensity, and cost of current soil testing while maximizing accuracy; and to more accurately monitor and quantify the air and water impacts of nitrous oxide emissions. The project plans to use existing relationships within the airline industry to secure offtake agreements for low-carbon intensity sustainable aviation fuel and other biofuel purchasers. The project plans to establish an advisory council, which will include members from underserved groups, specifically focusing on gender equality and minority representation from the Native tribal organizations, to ensure project design and implementation adequately account for underserved producers and communities. Program materials, education and training are planned to be centered on minority-owned farms and the benefits of enrolling their farm acreage in a climate-smart commodities program with a minimum of 12% of project acreage under contract with underserved producers; this project also specifically aims to enroll two historically underserved groups: women (majority female-owned farms) in southeast Iowa and southeast Nebraska and Native American tribal organizations in South Dakota, including the Standing Rock Sioux Tribe.

Lead Partner: Gevo, Inc.**,

Other Major Partners: Southwest Iowa Renewable Energy, LLC**, South Dakota State University*, Yard Stick*, Colorado State University*, Iowa State University*, Standing Rock (SAGE) Renewable Energy Power Authority

Primary States Expected: IA, MN, NE, SD, Tribal

Major Commodities: Corn

Approximate Funding Ceiling: \$30,000,000

Approved Federal Funding: \$30,000,000

Non-Federal Match: \$16,290,848

Monitoring Highlights:

The project team plans to deploy an MRV platform that quantifies GHG benefits with the Argonne GREET lifecycle analysis model, with blockchain-based smart contracts that create efficient market mechanisms to facilitate the monetization and scaling of climate-smart commodities, GHG benefit attributes, and related instruments. The project also plans to work to identify new technological approaches to assess alternative approaches to minimize the frequency, intensity, and cost of current soil testing while maximizing accuracy; and to more accurately monitor and quantify the air and water impacts of nitrous oxide emissions.

Marketing Highlights:

The project plans to use existing relationships within the airline industry to secure offtake agreements for low-carbon intensity sustainable aviation fuel and other biofuel purchasers.

Equity Highlights:

The project plans to establish an advisory council, which will include members from underserved groups, specifically focusing on gender equality and minority representation from the Native tribal organizations, to ensure project design and implementation adequately account for underserved producers and communities. Program materials, education and training are planned to be centered on minority-owned farms and the benefits of enrolling their farm acreage in a climate-smart commodities program with a minimum of 12% of project acreage under contract with underserved producers; this project also specifically aims to enroll two historically underserved groups: women (majority female-owned farms) in southeast Iowa and southeast Nebraska and Native American tribal organizations in South Dakota, including the Standing Rock Sioux Tribe.

Available Practices: 329 Residue and Tillage Management - No Till, 336 Soil Carbon Amendment, 340 Cover Crop, 345 Residue and Tillage Management - Reduced Till, 528 Prescribed Grazing, 590 Nutrient Management

(*) indicates a subrecipient
(**) indicate a partner that is supplying non-federal match dollars or in-kind support