

Commercial Scale Cellulosic Ethanol: Co-products for Bioenergy

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Emissions Panel
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The miracles of science



Making Cellulosic Ethanol A Reality in Nevada, Iowa

ETHANOL PRODUCTION

30 MILLION gallons/year

CORN STOVER IN SUPPLY RADIUS

815,000 acres

CORN STOVER HARVEST RATE



375,000 tons/year
CORN STOVER INVENTORY

FEEDSTOCK SUPPLY RADIUS

30 miles

CORN STOVER HARVESTED

190,000 acres

CORN STOVER BALES

700,000 per year

ADDITIONAL ETHANOL FROM CORN

150 gallons/acre

Collaborating to Create a Scalable and Sustainable Supply Chain

Collaboration with the USDA Natural Resource Conservation Service and Iowa State University

To assess the lifecycle of corn stover as a feedstock, and protect soil health within the stover supply chain

- More than 500 Iowa farmers
- ISU harvest validations
- DuPont Pioneer agronomics
- Five year harvest experience
- Commercial equipment partners
- 375,000 tons each year
- 190,000 acres harvested



IOWA STATE UNIVERSITY



Co-Products for Bioenergy

- Corn stover (leaves, stalks and cobs) is the feedstock for the DuPont Cellulosic Ethanol plant.
- Corn and other agricultural feedstocks are annual crops so that the amount harvested and any burned is balanced by the amount that grows during the year.
- Corn stover left on the field would biodegrade resulting in methane emissions. Using it for bioenergy would not result in any additional emissions.
- Bioenergy would be generated locally resulting in minimal transport emissions.
- Economics of the feedstock supply chain are critically important for the cellulosic ethanol industry and the developing biobased economy.
- Government policies that incent using agricultural feedstocks for bioenergy generation provide another means for transitioning away from fossil fuel based energy.
- A regulatory framework for biogenic emissions is important. Thank you for your work.

Thank you!

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Nancy Clark

External Relations

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