

Bioenergy Production

Environmental Issues

**USDA Air Quality Task Force
ICEAF Committee**

Environmental Issues

- Specific environmental and natural resource conservation issues include, but are not limited to, the following:
- Siting of Facilities
- Resource Demands (crops, natural gas, electricity, water treatment technologies, brine management strategies, potable water, and on side constraints)

Environmental Issues

- Soil erosion
 - Increase marginal land in production
- Wildlife habitat
 - Removal of CRP, idle pasture, etc.
- Water use and quality
 - 3 to 5 gallons for H₂O / gallon of ETOH
 - Impact of increased production on runoff and groundwater

Environmental Issues

- Air quality
 - Particulate matter at plants
 - VOC's
 - NO_x/SO_x
 - HAPs
 - Odors
 - Mobile emissions from transport

Environmental Issues

- Carbon issues
 - Carbon balance
 - Carbon credits
 - Determination of credits
- Consumptive energy use
 - Natural gas
 - Electricity
 - Coal

Environmental Issues

- Regulatory and Logistical Issues
- Reliable and Reputable Construction Companies
- Private Profit Dominates Decision-Making

ICEAF COMMITTEE PROPOSES

- To identify and present biofuels production environmental issues to the full AAQTF so that recommendations can be made to the USDA Secretary to support and maintain a sustainable biofuels industry