

The logo features a stylized cluster of thin, curved lines in shades of green and yellow, resembling a plant or a bundle of reeds, positioned to the left of the text.

*Biofuels Center
of North Carolina*

Project Eastern Gain

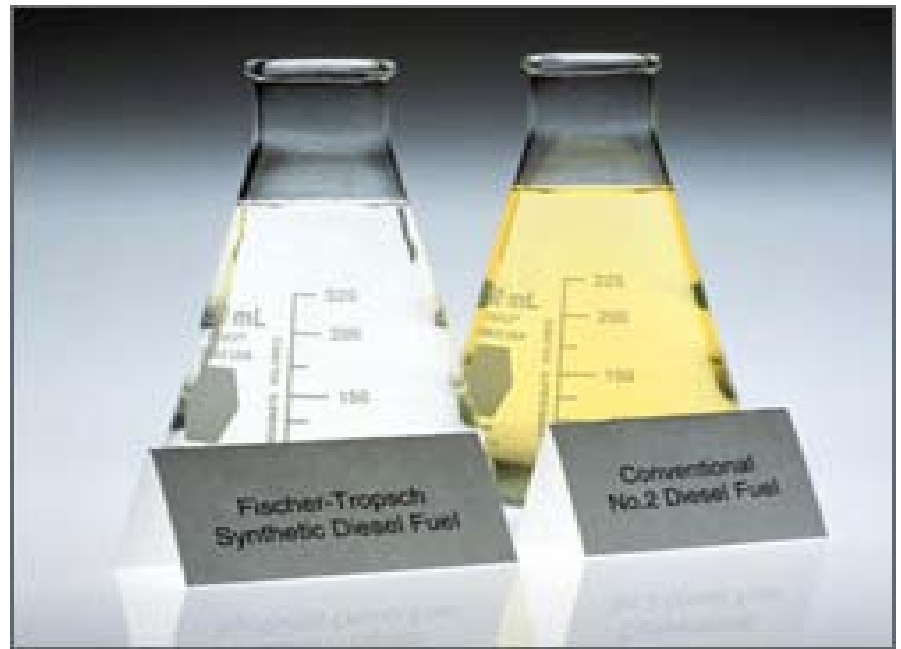
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❑ Project Eastern Gain

- ❑ Ambitious and strategic, Project Eastern Gain is initiated in two phases, each different in chronology and specific goals.
- ❑ Both phases address the eight primary components of biofuels production and focus on the protection and utilization of lands, agricultural and community gain, and practical service to North Carolina's military.



- ❑ **Phase I: Initial Biofuels Production**
 - ❑ Summer 2010 – 2011
 - ❑ To trigger awareness and possibilities for biofuels production
 - ❑ Administered by George Miller, North Carolina Eastern Region's Military Growth Task Force



- ❑ **Phase II: Large Scale Biofuels Production**
 - ❑ January 2011 - 2016
 - ❑ Goal: Up to 50 Million gallons annually of Military and Jet Aviation Fuel by 2016
 - ❑ Administered by Terry Carter, Biofuels Center of North Carolina

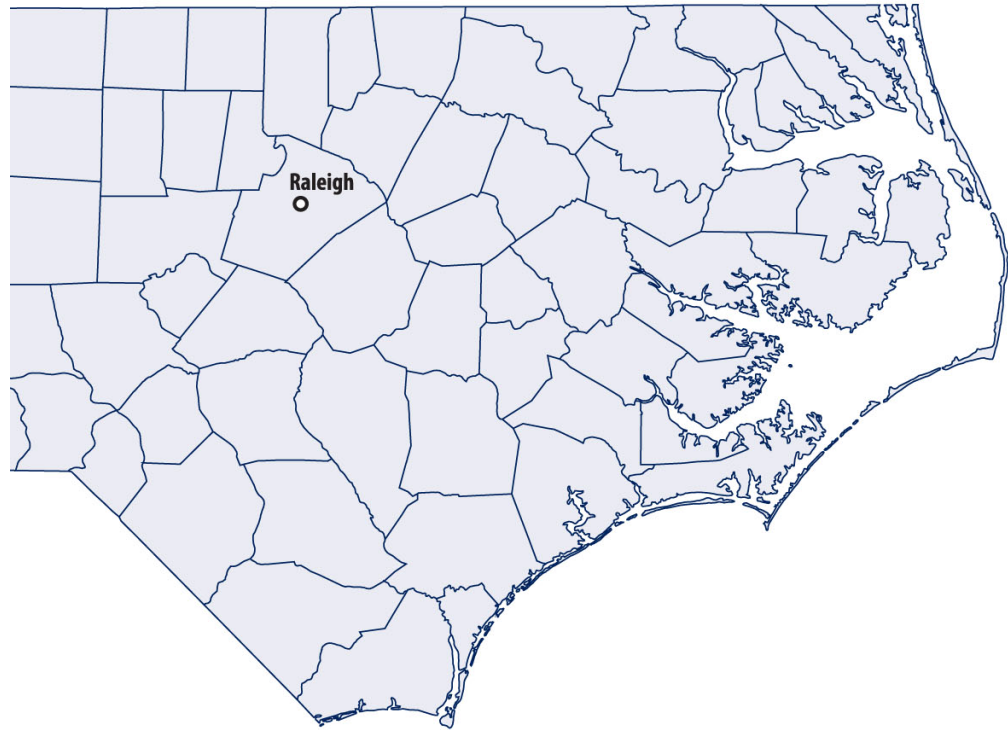
The Eight Key Tasks in Development of a Biofuels Industry

- ❑ Civic Commitment
- ❑ Land
- ❑ Feedstocks & Biomass
- ❑ Growers & Landowners
- ❑ Production
- ❑ Logistics
- ❑ Procurement & Distribution
- ❑ Outcome & Gain

□ Civic Commitment

Key Task: Expand regional interest in producing biofuels

- Workforce Expansion
- Improved agricultural and forestry revenues
- Regional economic development
- Military procurement support



□ Land

Key Task: Identify up to 100,000 acres for biomass production

- No loss of food crop acreage
- No environmental damage to lands
- Improved utilization of marginal lands
- Increased agricultural value from land use
- Improved forest utilization



❑ Feedstocks and Biomass

Key Task: Identify crop choice(s) and source locations

- ❑ Guaranteed long term cellulosic supply
- ❑ Stable prices for cellulosic supply
- ❑ Renewable and sustainable yields



❑ Growers and Landowners

Key Task: Establish biomass market in agricultural community

- ❑ Additional Crop Options
- ❑ Opportunities for productive spray-field use
- ❑ Potential for long term off-take agreements



□ Production

Key Task: Identify proven biomass conversion processes and gain a number of production facilities

- Proximity to feedstocks
- Year round supply and operations
- Use for excess energy and production
- Production capacity verification



❑ Logistics

Key Task: Identify locations that optimize crop acreage, biomass transportation, and proximity to distribution points

- ❑ Transportation and storage of biomass
- ❑ Transportation and storage of liquid fuels
- ❑ Integration into existing supply infrastructure
- ❑ Quality control of pure and blended fuels



❑ Procurement

Key Task: Identify primary purchasers for large-scale production volume

- ❑ Commercial aviation
- ❑ Military aviation
- ❑ Tactical ground vehicles



❑ Outcome and Gain

- ❑ Job Creation
- ❑ Rural business development
- ❑ Workforce development
- ❑ Millions of gallons of petroleum replaced
- ❑ Economic and agricultural gain
- ❑ Support of military and national goals for GHG reduction
- ❑ Attainment of energy independence targets



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Questions?

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