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# Biodiesel Plant Development Seminar, What You Need to Know: Technology Processes and Provider Overview

Steve Howell

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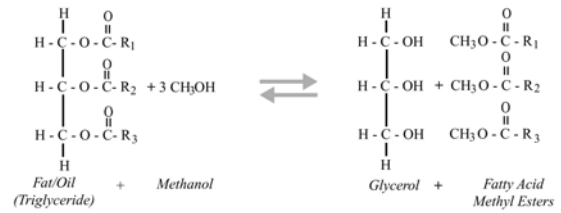
## Biodiesel Plant Development Seminar, What You Need to Know: Technology Processes and Provider Overview

Presented by:

Steve Howell  
 August 25, 2005

I independent  
 B biodiesel  
 F feasibility  
 G group, LLC

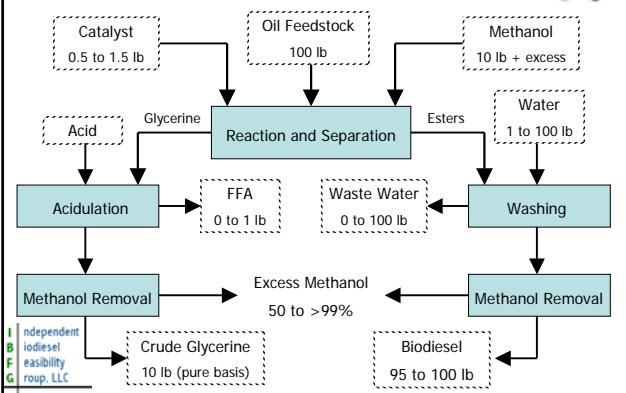
## The Transesterification Reaction



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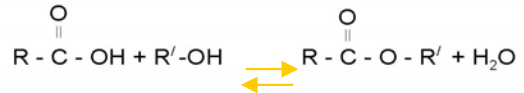
## Transesterification Material Balance

slide courtesy of Superior Process Technologies

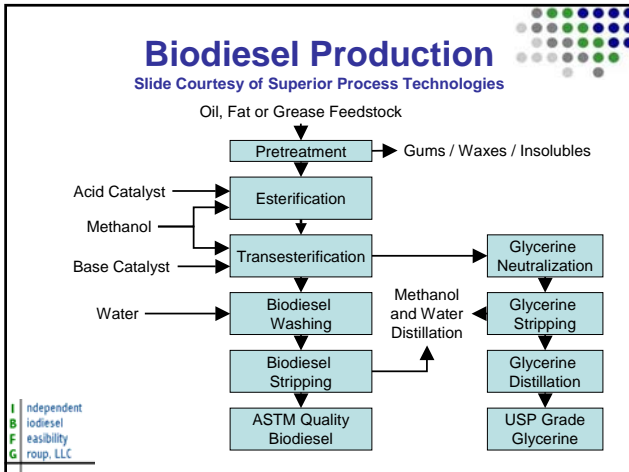


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## Esterification of Free Fatty Acid



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- ## Biodiesel Technology Providers
- There are a growing number of competent providers of biodiesel plant technology
  - Significant experience with 'clean' oils and fats
  - Growing experience with less valued 'dirty' feeds
  - Many options available
    - Turn key, custom design
    - Skid mounted
    - Other services and assistance
- Legend:**  
 I | independent  
 B | biodiesel  
 F | feasibility  
 G | group, LLC

- ## Biodiesel Technology Providers
- resource information for those discussed
- **Lurgi PSI**
    - <http://www.lurgi.de/english/nbsp/index.html>
  - **Superior Process Technologies**
    - <http://www.superiorprocesstech.com/>
  - **Biodiesel Industries**
    - <http://www.biodieselindustries.com>
  - **Cimbria Sket – Bratney**
    - <http://www.bratney.com>
  - **Crown Iron Works**
    - <http://www.crowniron.com/>
  - **Renewable Energy Group**
    - <http://www.renewable-energy-group.com/>
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## Educational Resources

- **BEN: Biodiesel Education Network**
- Web-based resource specifically for petroleum marketers
- Partnership between NBB/PMAA
- [www.pmaa.org](http://www.pmaa.org)
- [www.biodiesel.org](http://www.biodiesel.org)

The screenshot shows the 'Ask Ben' website, a web-based resource for petroleum marketers. It features a search bar and a form to submit questions. The text on the page reads: 'Biodiesel education network. You've got biodiesel questions. BEN has quick and accurate answers. Registered as the nation's most reliable and trusted source for biodiesel information. BEN is now available to serve you through an alliance with the National Biodiesel Board and the Petroleum Marketers Association of America. At last, someone that can take care to give you the answers you need to grow your business! Just Ask BEN! What do you want to Ask Ben? Your email address: [input field] Company: [input field] Title: [input field] State: [input field] Zip: [input field] Take your questions to BEN today! [submit button]

**Legend:**  
 I | independent  
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## NBB Resources

- [www.biodiesel.org](http://www.biodiesel.org)
- Technical Library
- Biodiesel Bulletin
- Educational Videos Available
- Informational Resources
- Technical Resources
- On-line Database & Spec Sheets



### Other web sites:

- [www.nationalbiodieseleducation.org](http://www.nationalbiodieseleducation.org)

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## Other Biodiesel Resources

- [www.bbibioufuels.com](http://www.bbibioufuels.com)
- Biodiesel Magazine  
– A **MUST HAVE** magazine
- Biodiesel Industry Directory On-Line



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## IBFG

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