Biodiesel Production

Dr. Jason de Koff
Extension Specialist – Agronomy and Soils
Mobile Biodiesel Education Demonstration

@TSUBioenergy

Email: jdekoff@tnstate.edu

http://www.tnstate.edu/faculty/jdekoff/MobileBiodiesel.aspx
Diesel Fuel Retail Price Incl Taxes U.S. Average

dollars per gallon

Source: Short-Term Energy Outlook
Top 5 Oil Exporters to the U.S.

U.S. Energy Information Administration, 2015
Renewable Fuels Standard

- Advanced Biofuels
- Cellulosic Ethanol

Billion gallons

U. S. monthly biodiesel production 2014 - 2016

million gallons

Biodiesel production

• Transesterification
Triglyceride
Biodiesel

Glycerol
On-farm fuel
Oil seed press

Gemco Energy (China)
KOMET (Germany)
Oil Press Co. (USA)
Biodiesel processor

Onsite Energy
Biodiesel123
Evolution biodiesel
1. How many gallons can be processed per batch?
2. How long does each batch take to process?
3. Is the system capable of heating the oil and/or the alcohol-catalyst mixture?
4. Does the system include methanol recovery equipment? Methanol transfer system? Test kits?
5. Does the system have the capability to wash and dry the biodiesel?
6. Does the system require any extra plumbing, fittings or pumps?
7. Does the system require that a specific catalyst be used?
8. Does the manufacturer provide technical support?

Adapted from Schumacher, 2007
Advantages and Disadvantages
Further information

Jason de Koff
jdekoff@tnstate.edu
615-963-4929
Twitter: @TSUBioenergy

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