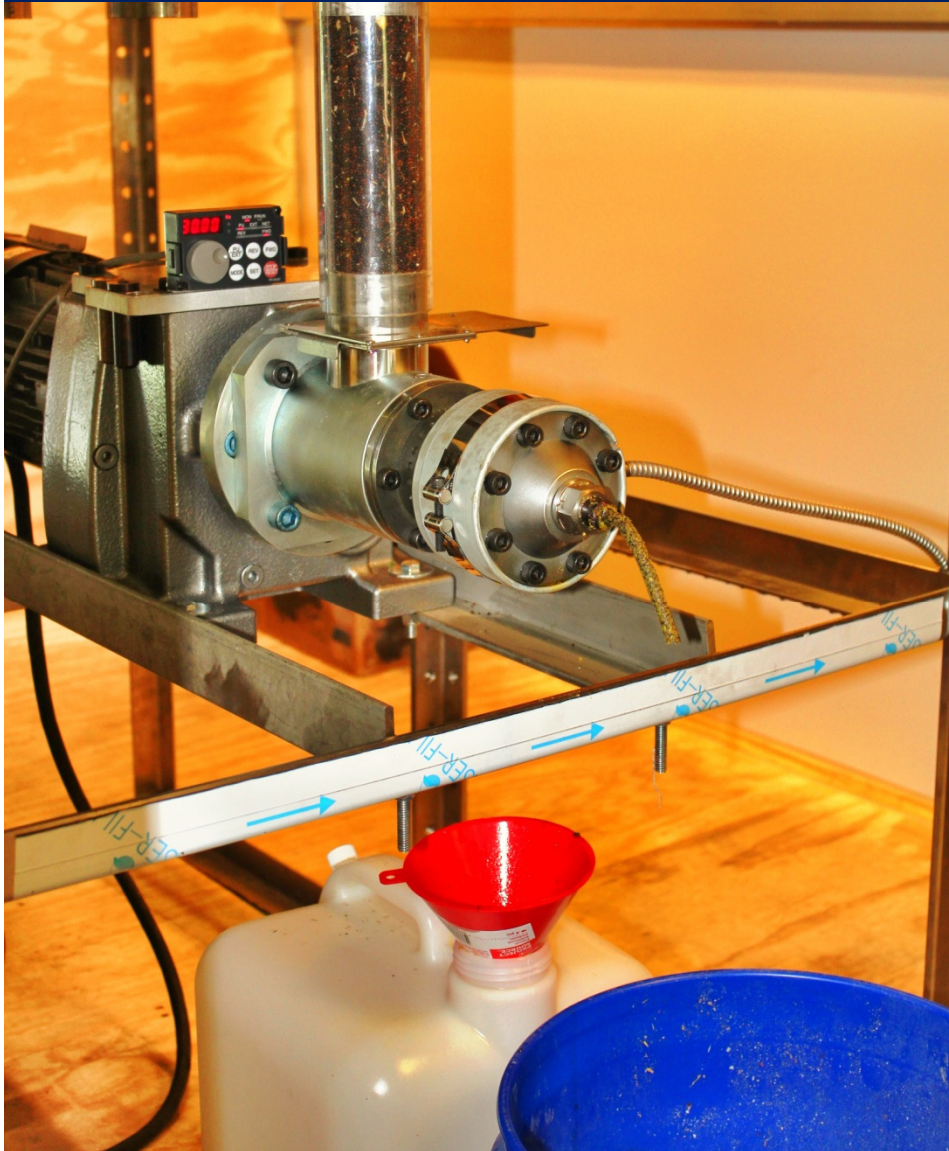


Biodiesel Production

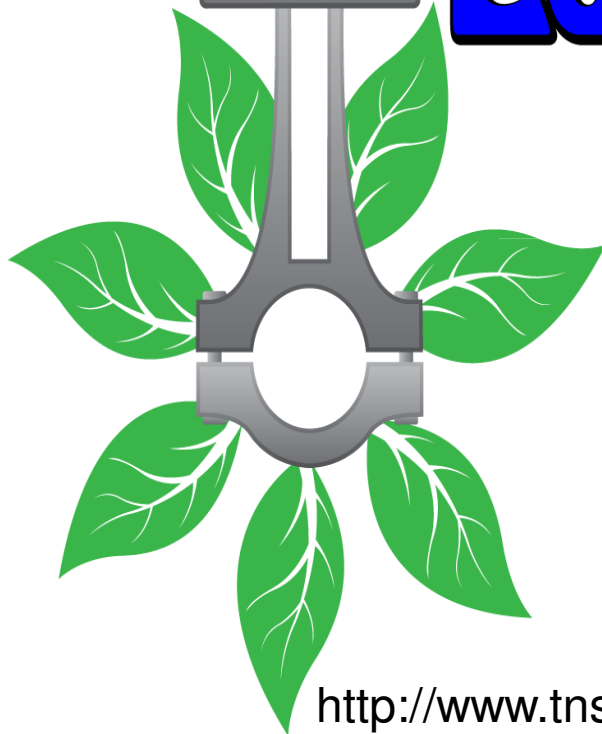


Mobile

Bio diesel

Education

Demonstration



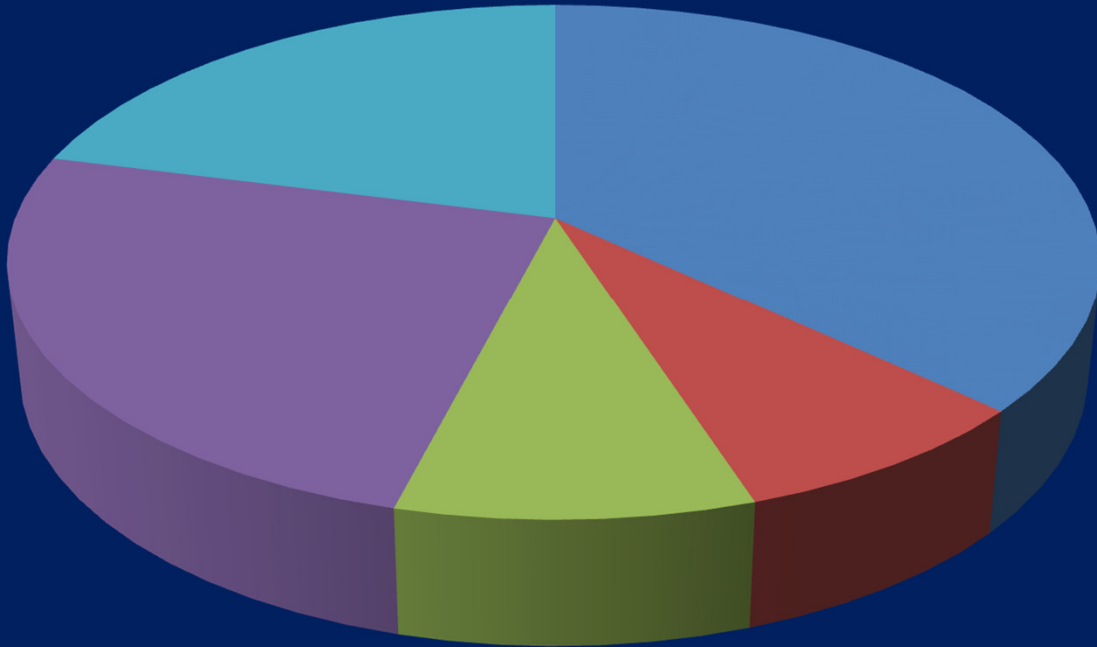
@TSUBioenergy



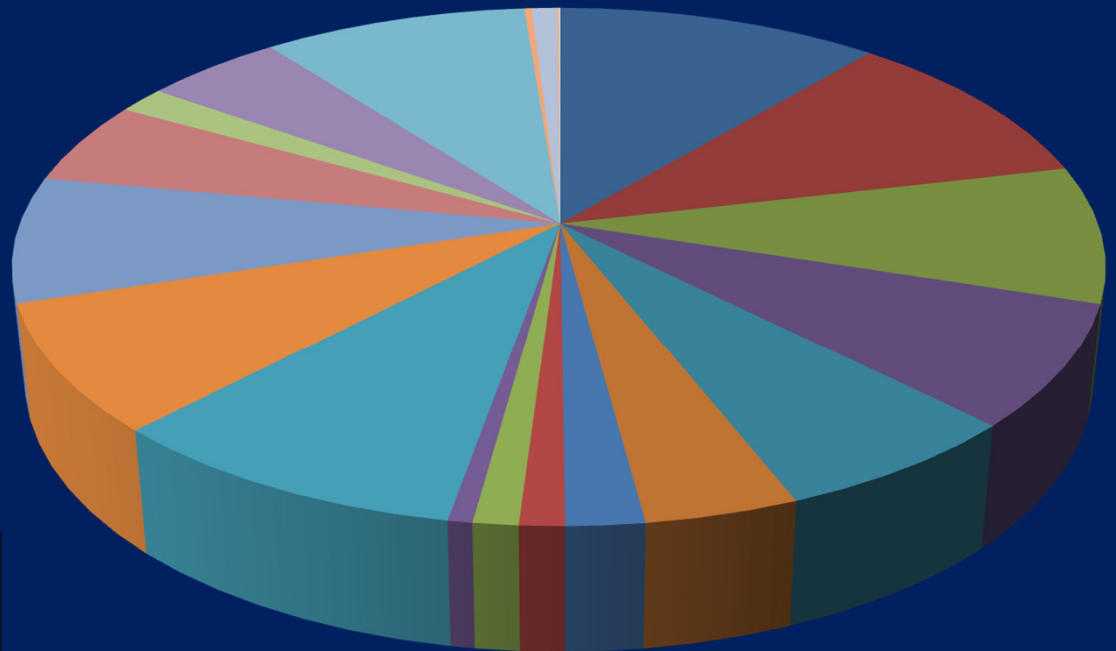
BiodieselProductionTour

<http://www.tnstate.edu/faculty/jdekoff/MobileBiodiesel.aspx>

U.S. Fuel
Consumption

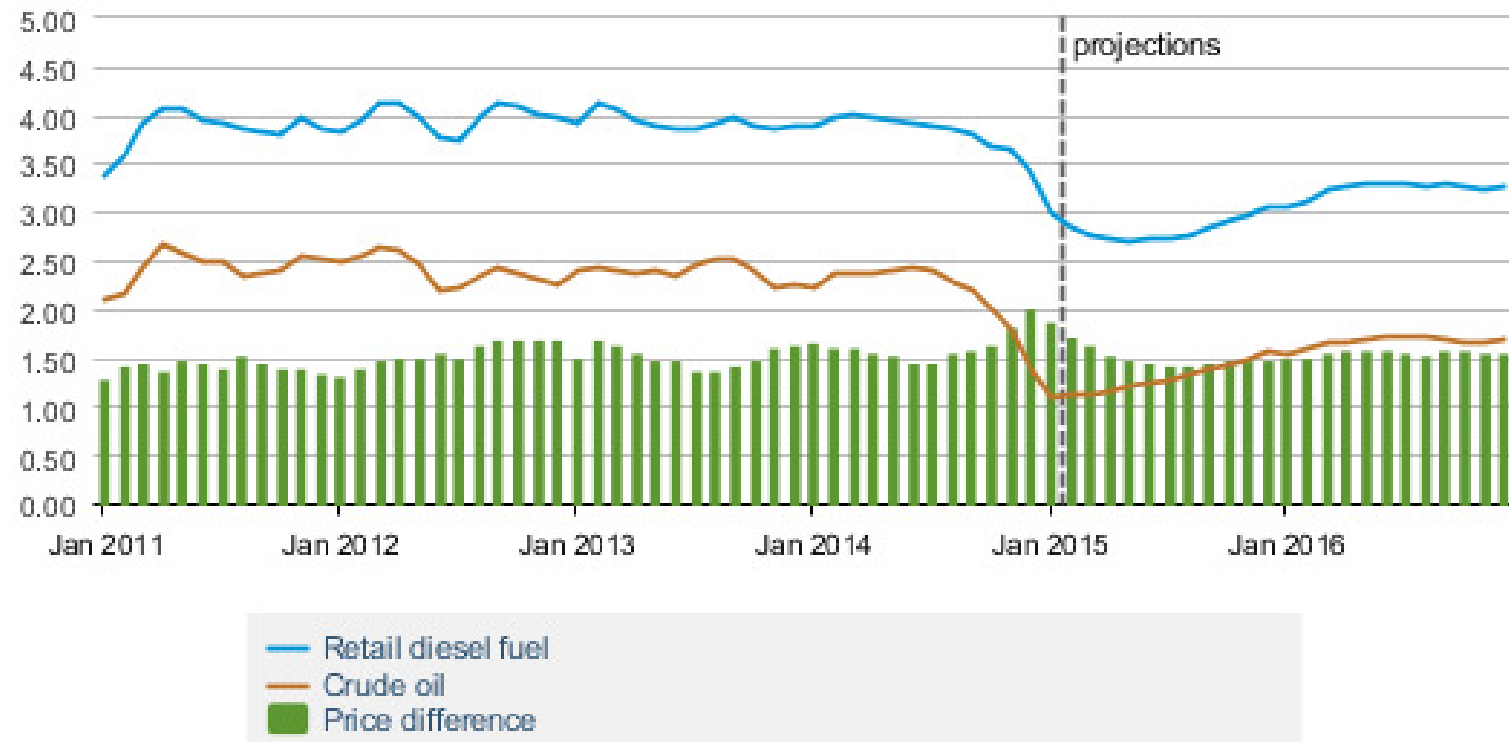


Fidelity Freedom
Fund



U.S. Diesel Fuel and Crude Oil Prices

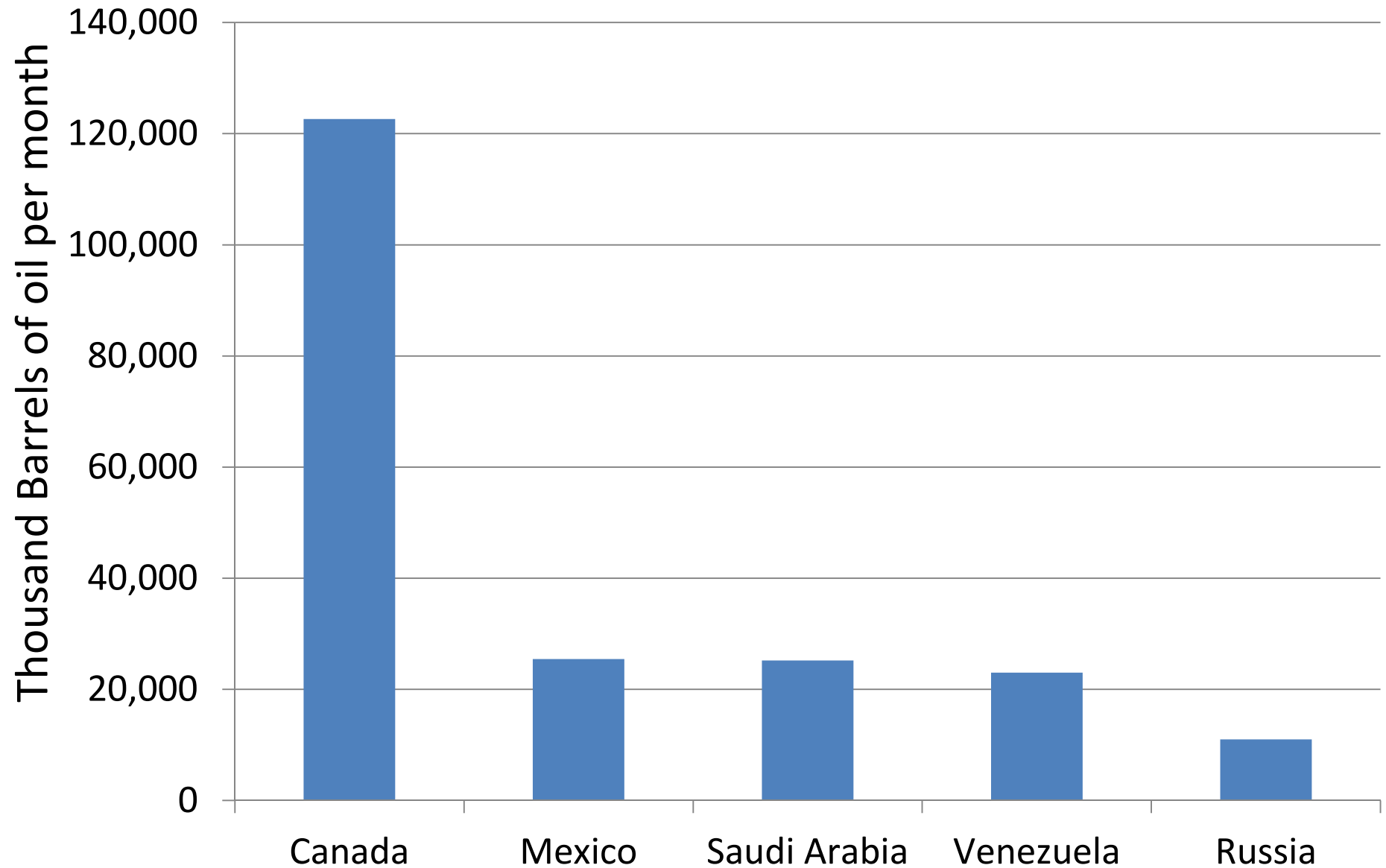
(dollars per gallon)



Source: Short-Term Energy Outlook, February 2015

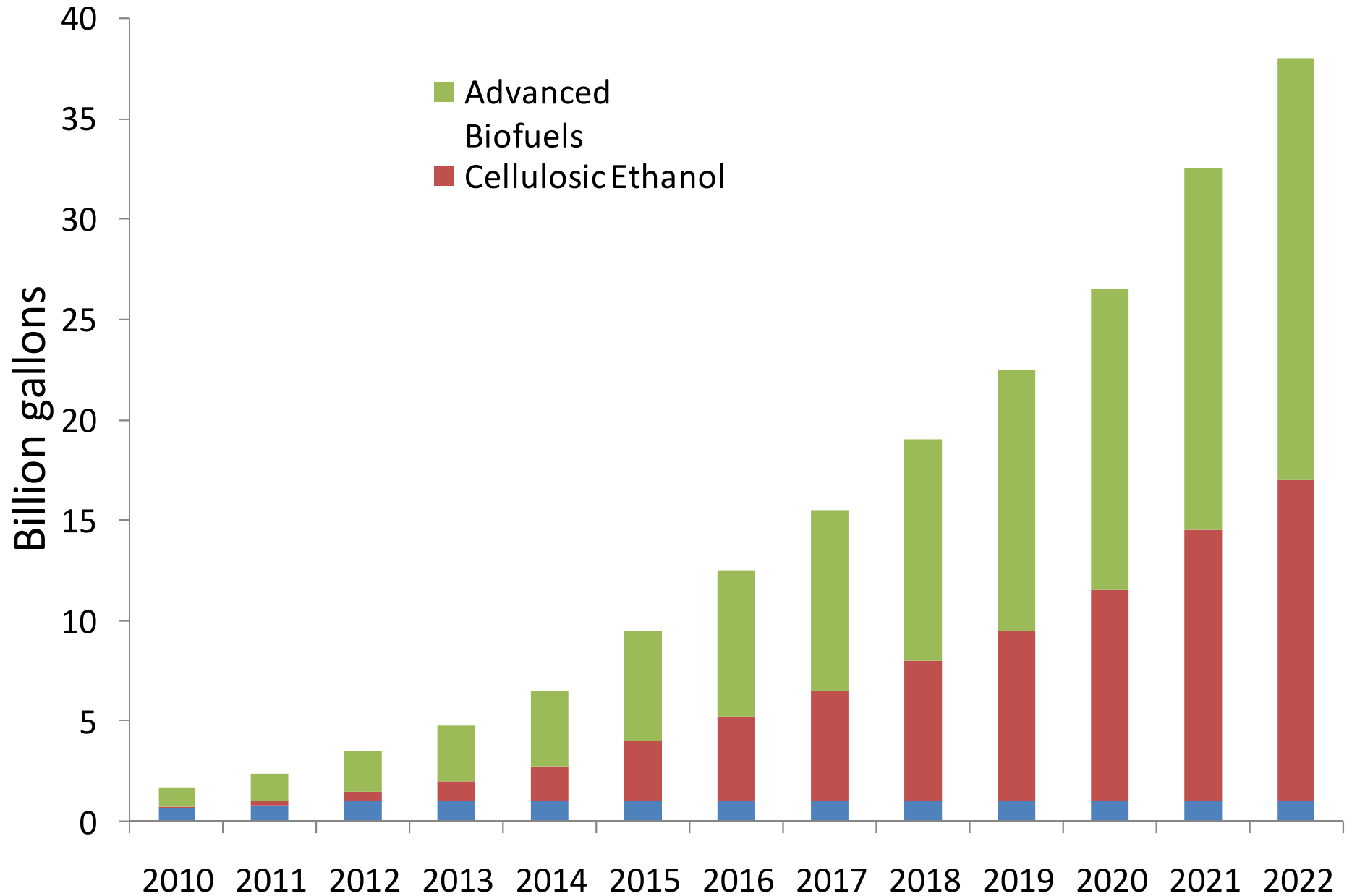
Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.

Top 5 Oil Importers



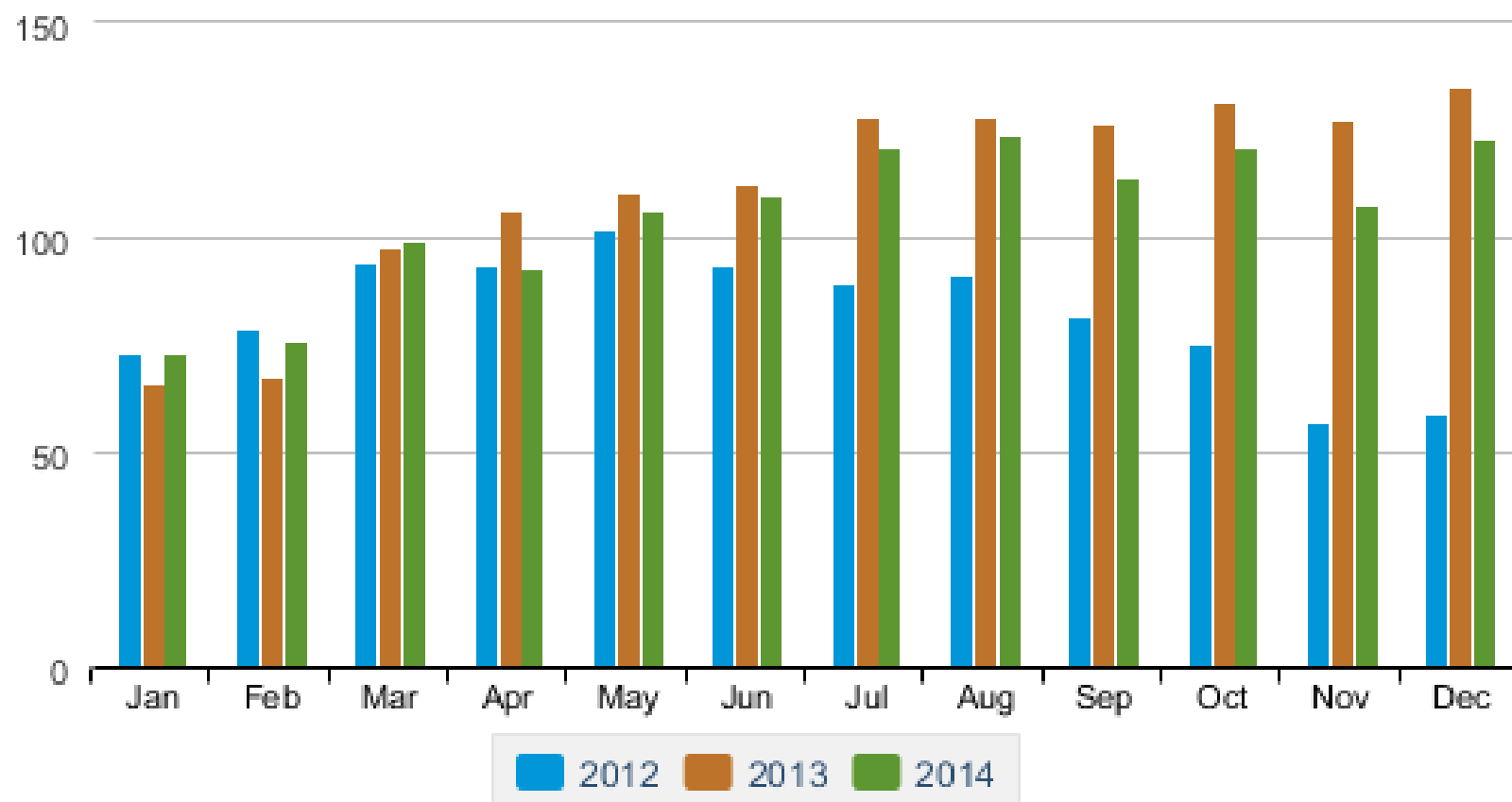
U.S. Energy Information Administration, December 2014

Renewable Fuels Standard



U. S. monthly biodiesel production 2012 - 2014

million gallons

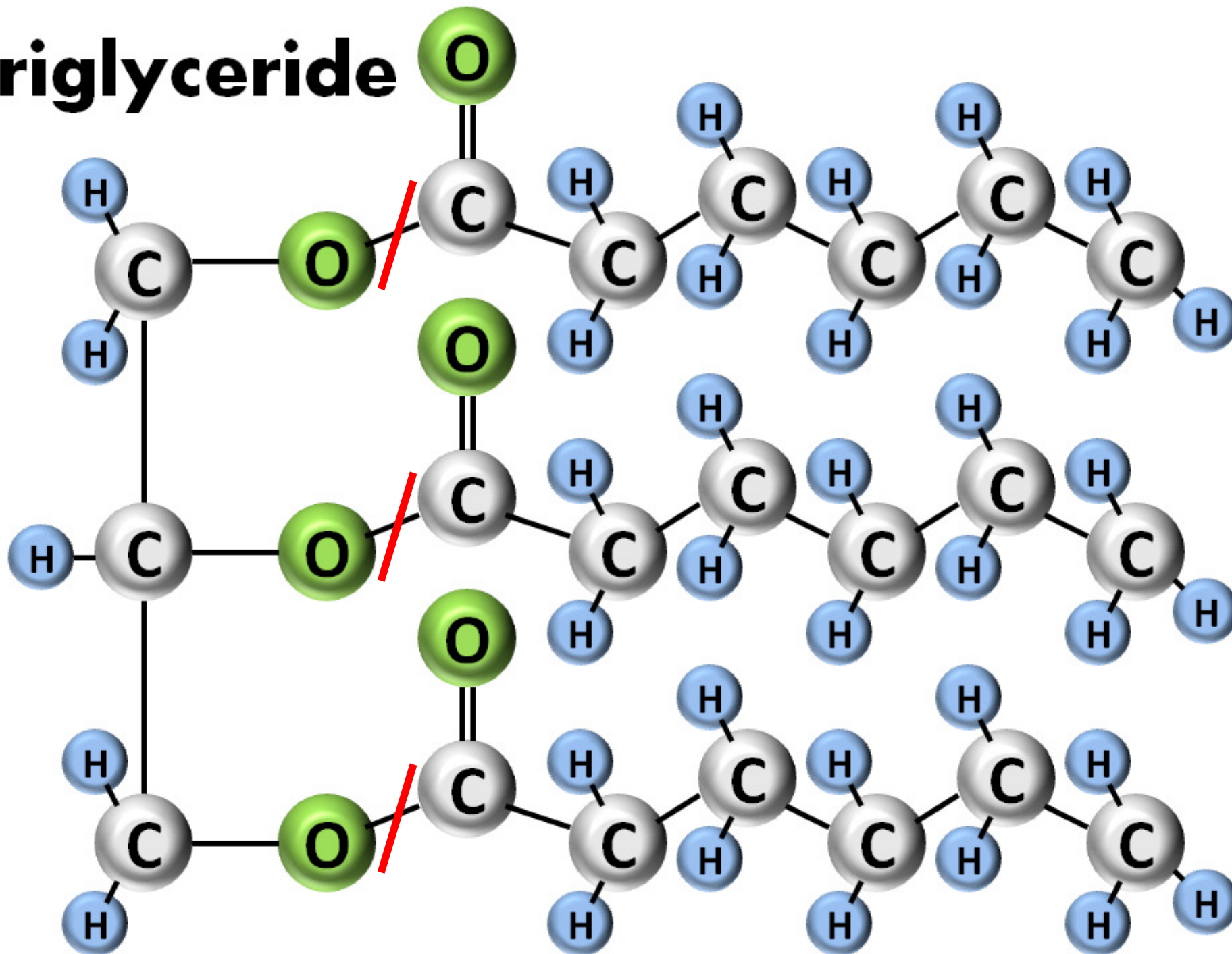


Biodiesel production

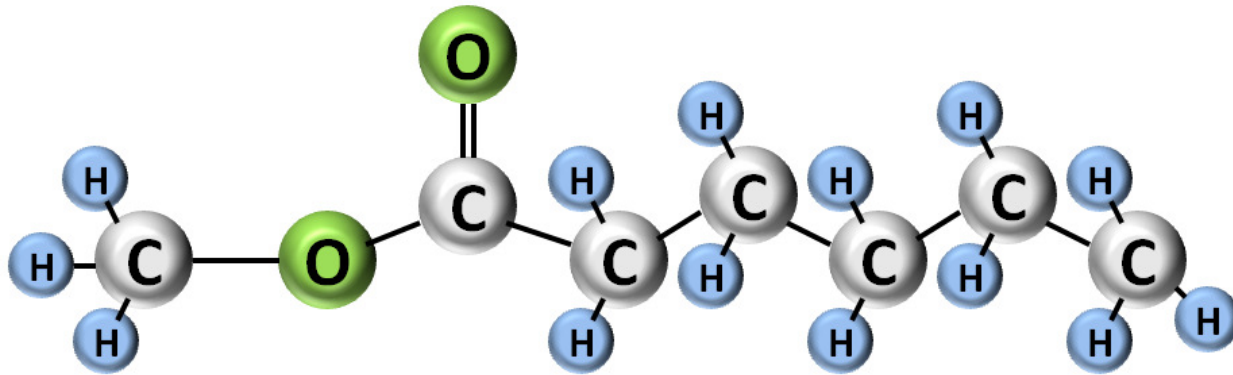
- Transesterification



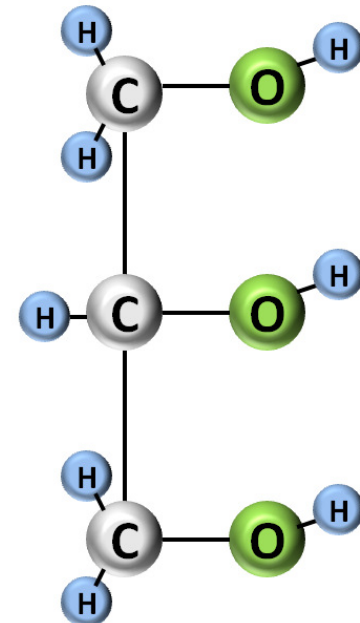
Triglyceride



Biodiesel



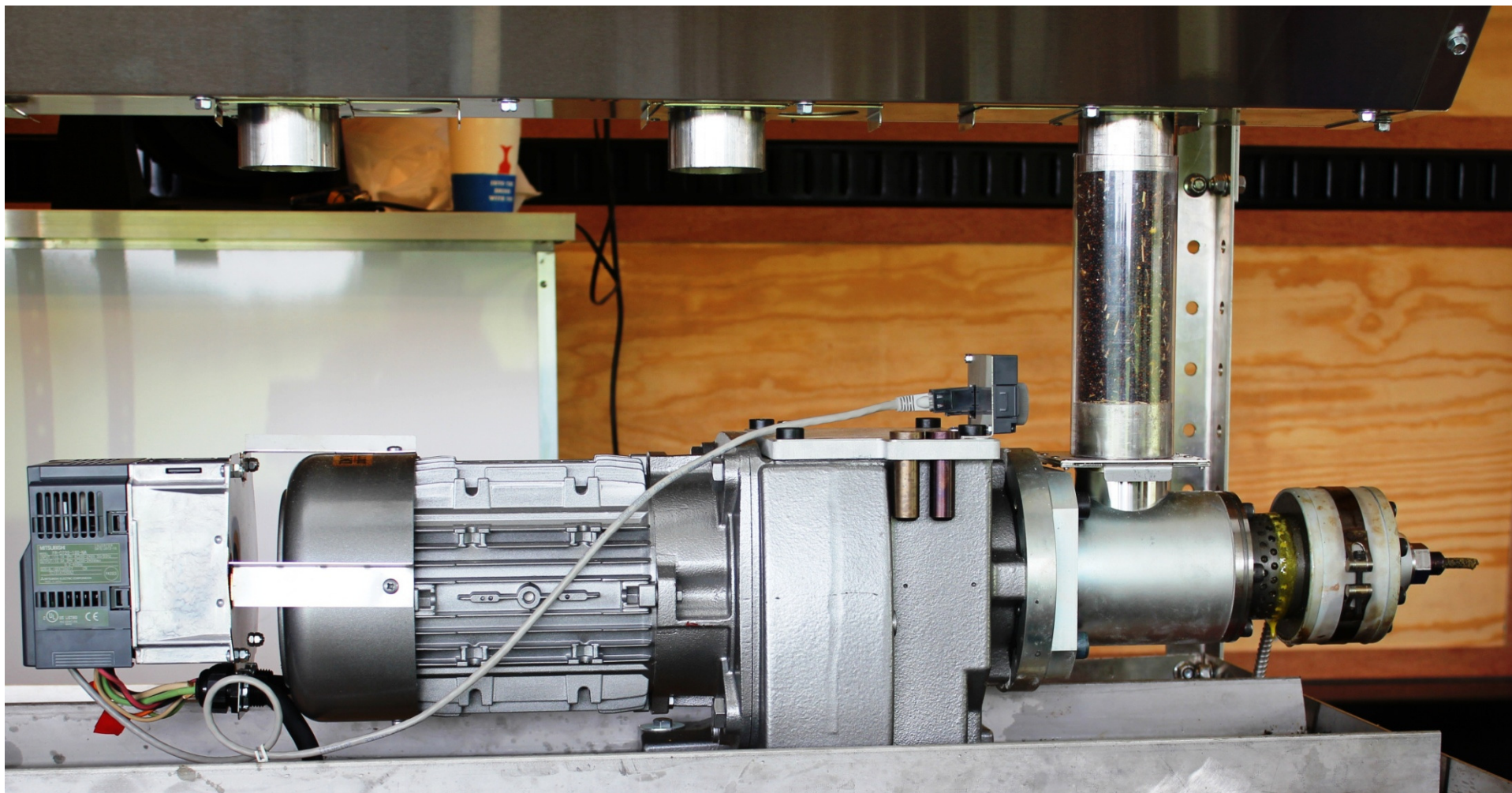
Glycerol



On-farm fuel



Oil seed press



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

Biodiesel processor



Onsite Energy
Biodiesel123
[Evolution](#) biodiesel

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

Advantages and Disadvantages



Further information

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615-963-4929

[http://www.tnstate.edu/extension/
publication_index.aspx](http://www.tnstate.edu/extension/publication_index.aspx)

http://www.extension.org/ag_energy