



Biodiesel Workshop, Kansas Speedway
Jessica Robinson, Director of Communications
National Biodiesel Board

America's Advanced Biofuel

**Oh Beautiful for smoggy skies, insecticided grain,
For strip-mined mountain's majesty above the
asphalt plain.**

**America, America, man sheds his waste on thee,
And hides the pines with billboard signs, from sea
to oily sea.**

~George Carlin

It wasn't the *Exxon Valdez* captain's driving that caused the Alaskan oil spill. It was yours.

~Greenpeace advertisement, *New York Times*, 25 February 1990

Reliance on Liquid Fuel

Heavy Duty and Emergency Equipment

- Buses, Ambulances, Fire Trucks, Generators, Farm Equipment



**Nature provides a free lunch, but
only if we control our appetites.**

~William Ruckelshaus, *Business Week*, 18 June 1990

Renewable



Noun:

A source of energy that is not depleted by use, such as water, wind, or solar power

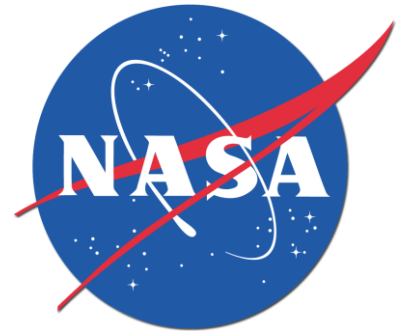
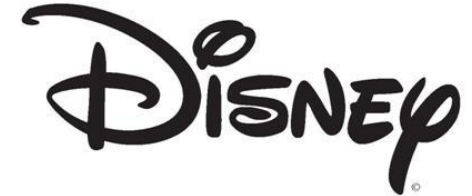
Adjective:

1. Capable of being renewed
2. (of energy or its source) Not permanently depleted when used

For a successful technology, reality must take precedence over public relations, for Nature cannot be fooled.

~Richard P. Feynman

Biodiesel Users



ENTERPRISE HOLDINGS.



Existing Resources



Cottonseed Oil



Yellow Grease



Animal Fats



Soybean Oil



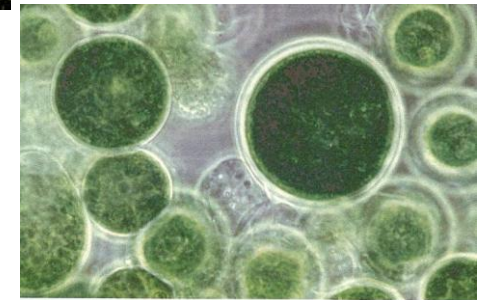
Brown Grease



Corn Oil from ethanol production

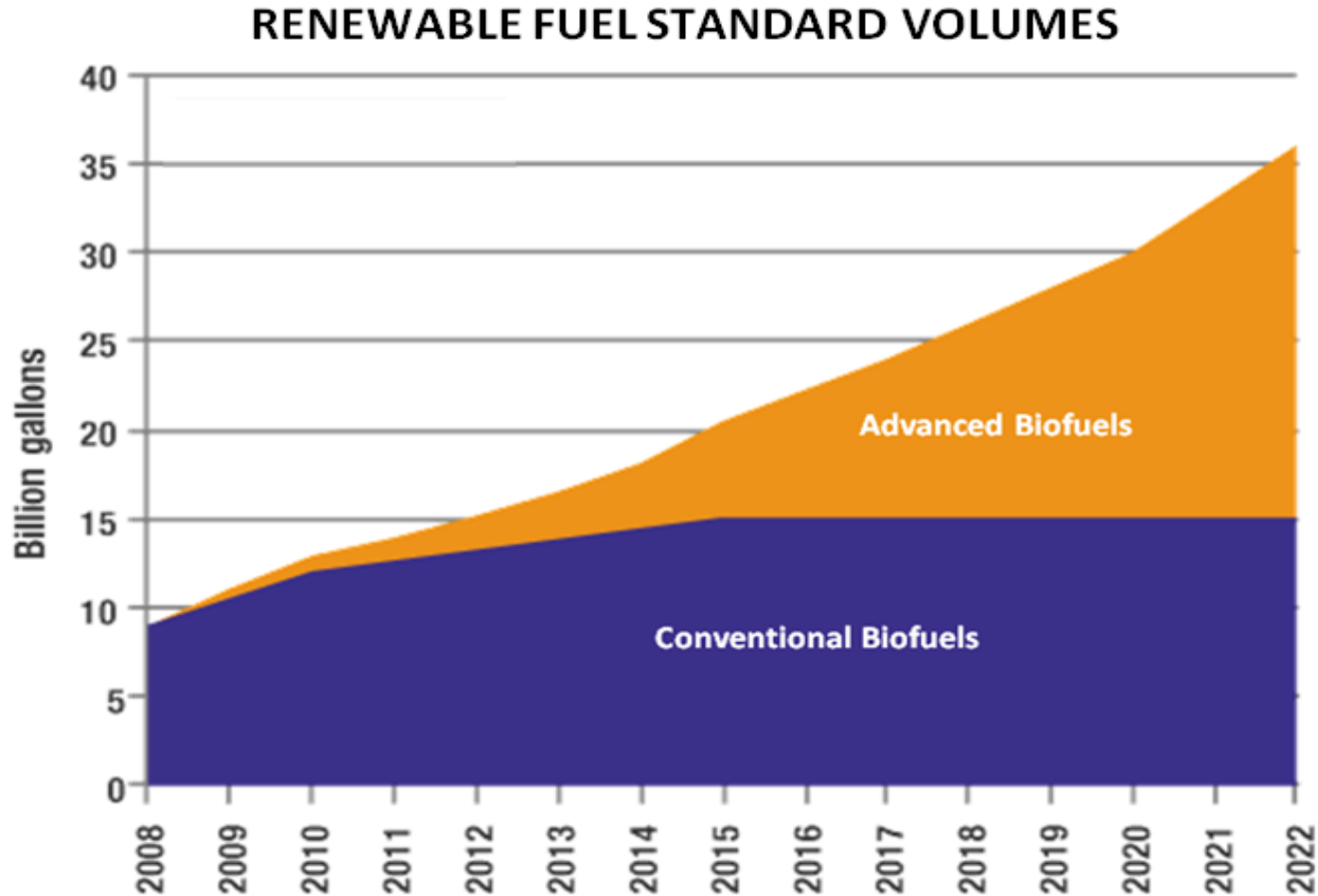


Canola Oil



Algae

RFS2 Requirements



Impacts of the RFS2 Program

- **Petroleum Consumption, Energy Security and Fuel Costs:**
 - Will replace 7% annual gasoline and diesel consumption in 2022
 - Decrease oil imports by \$41.5 billion
 - Result in additional energy security benefits of \$2.6 billion.



EPA Definition

40 CFR 80.1401

Advanced Biofuel means renewable fuel, other than ethanol derived from cornstarch, has lifecycle greenhouse gas emissions that are at least **50 percent less than baseline lifecycle greenhouse gas emissions.**

Also defined by Section 211 (o) (1) (B) of the Clean Air Act (42 U.S.C. 7545(o)) as amended by the Energy Independence and Security Act of 2007

Advanced Biofuel

- 50% GHG reduction compared to petroleum
- No direct land use change
- Limited indirect land use change
- Feedstocks must certify to these requirements





**One and only one produced
commercially available nationwide**

Unofficial Definition

Advanced Biofuel

- Does not compete with food
- Superior energy efficiency
- Significant potential for technological improvement & petroleum displacement
- No adverse environmental impacts
- It must be sustainable



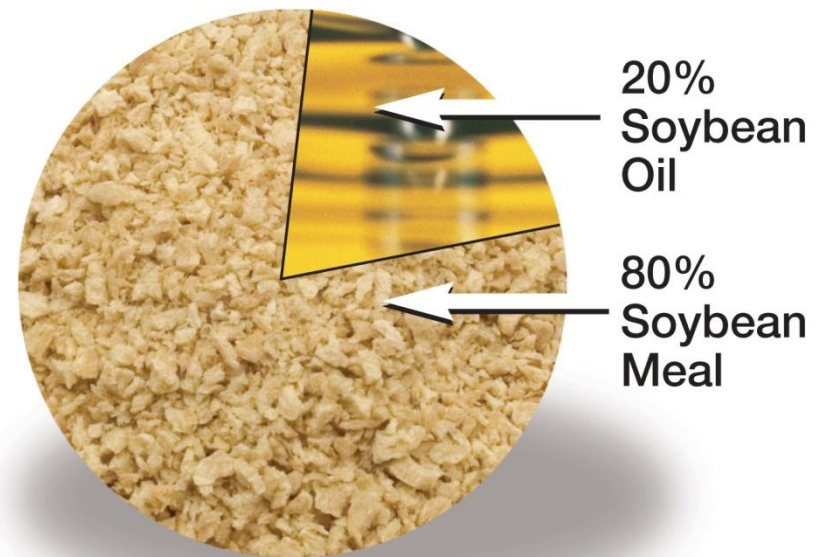
Biodiesel & Food

- Renewable energy is needed for farming and food distribution
- Producing food and energy side-by-side may offer one of the best formulas for boosting countries' food and energy security while simultaneously reducing poverty, according to a new FAO report.
- Increasing value of farm products makes the business of growing food more stable



Co-products of Food Production

- Protein meal for livestock feed is the primary driver for soybean production
- Better utilization of the oil coproduct can reduce the price of the protein meal.





**No increase in crop acres in US since
1959**

**American farmers produce more each
year on the same or less land**

**We can meet our goal of 1 billion gallons by 2012, and
beyond, with no increase in crop acres.**

Energy Balance

5.54:1

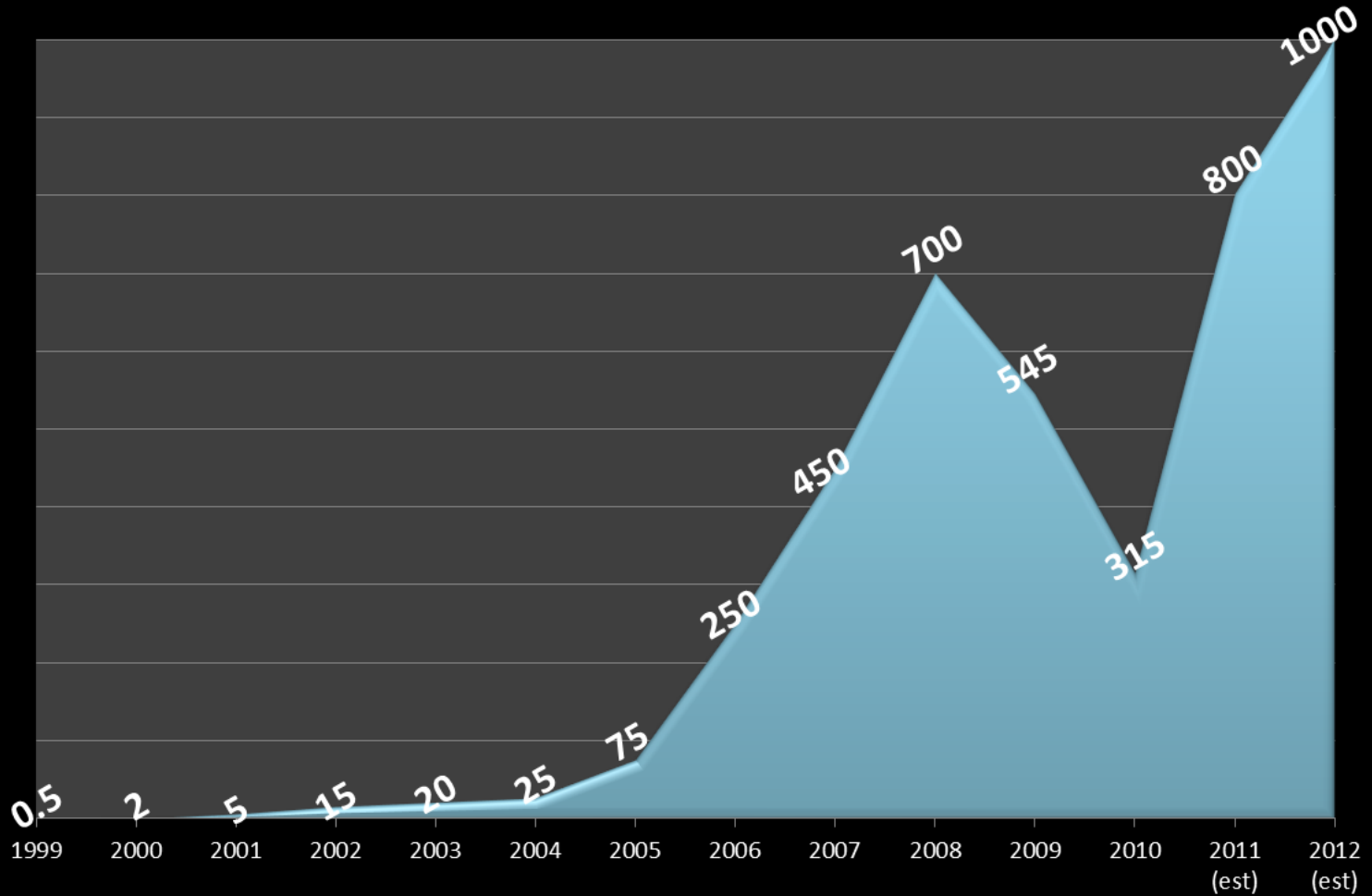
- Soybean crushing facilities and biodiesel production plants have become increasingly energy efficient
- Soybean farmers have adopted energy-saving farm practices, such as minimum tillage
- Increases in soybean yields
- Biodiesel production efficiencies





U.S. Biodiesel Production

Millions of Gallons





Questions?



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Jessica Robinson, Director of Communications (yes me, again...)

National Biodiesel Board

It's Here. It's Now.

Advanced Biofuel: Here and Now



Biodiesel is America's advanced biofuel. It's a cleaner-burning replacement for conventional diesel fuel, and it's made from readily available, renewable resources.

It's the first and only fuel produced nationwide to achieve EPA designation as an "advanced" biofuel, because it cuts greenhouse gases by up to 86%. It displaces fossil fuel, boosting our energy security and economy. It's sustainable.

And it's here, now.

American Jobs: Here and Now



America borrows nearly \$1 billion every day to help finance its purchase of imported oil, transferring American wealth to oil exporters. Biodiesel is a home grown fuel that keeps these dollars and jobs here.

With more than 170 plants nationwide, biodiesel supports jobs in refining, distribution, transportation, and engineering as well as agriculture.

Greater Energy Independence: Here and Now



Biodiesel is helping America's energy security, because it's produced right here at home, reducing our dependence on foreign oil.

In fact, biodiesel has reduced diesel fuel imports by more than 2.6 billion gallons in just the last five years.

A Practical Alternative:



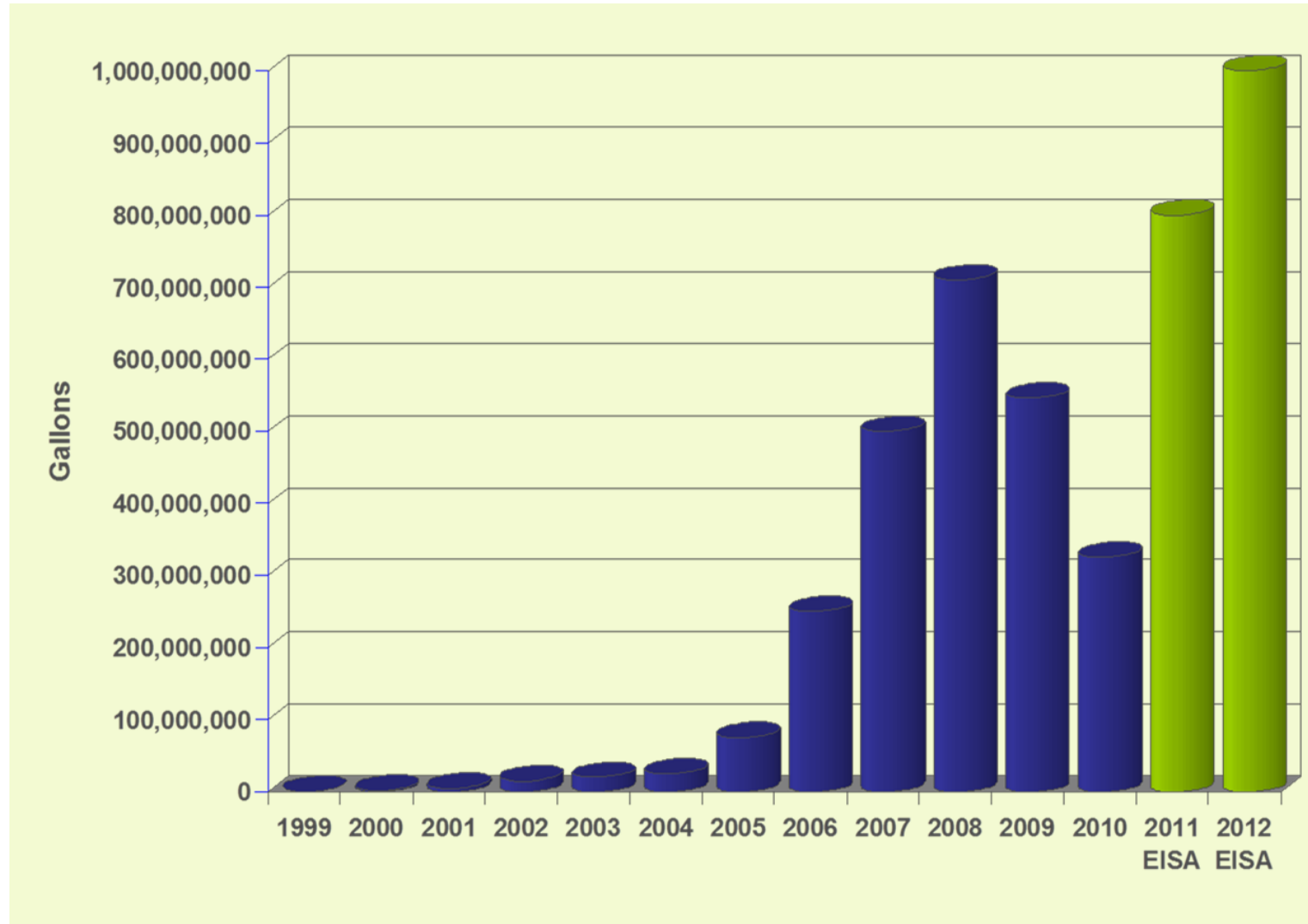
Here and Now

Biodiesel is a reality today. More than 170 American plants are making biodiesel, and existing diesel trucks and vehicles are running on it in cities and towns across the country.



In fact, this year biodiesel will displace almost a billion gallons of fossil fuel nationwide.

Biodiesel Production



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Questions?