

Better biodiesel

A. What is this research project?

Biodiesel is an alternative fuel made from vegetable oils or animal fats. This project is concerned with improving the properties of biodiesel, emphasizing biodiesel derived from soybean oil.

B. What problem does it address?

- Alternative fuels are important for energy security and independence, enhancing the agricultural economy, creating new jobs, and providing environmental benefits.
- Improving the properties—cold flow, emissions—of biodiesel will remove market barriers.

C. How is the project different from or how does it enhance other projects?

Several approaches are used for improving properties of biodiesel:

- New fuel formulations or additives that simultaneously or selectively address various technical problems
- New insights on biodiesel properties
- New or improved analytical methods for production, storage and use.

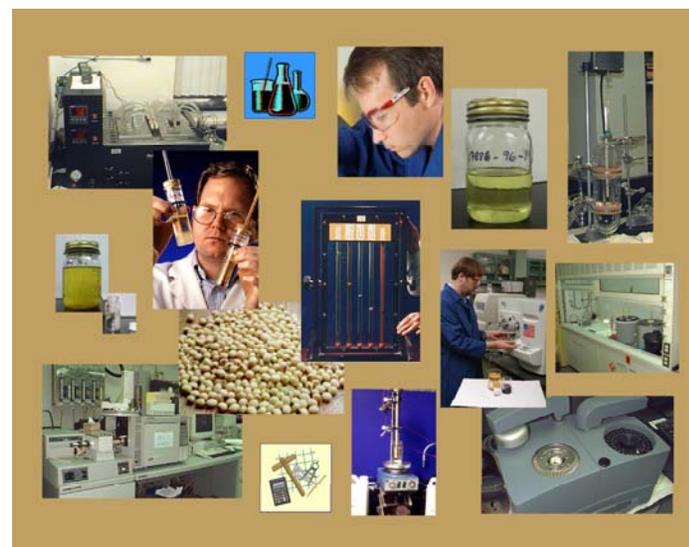
The combination of these approaches and the expertise of the scientists are unique to NCAUR.

D. What are the potential benefits of partnering with ARS on this research?

NCAUR has state-of-the-art equipment for evaluating biodiesel properties. NCAUR scientists possess considerable expertise in this area and are internationally recognized.

E. Who are the potential customers?

All parties along the biodiesel value chain, including farmers, oil processors, biodiesel producers, marketers, vendors and users. Professional organizations, trade associations, and regulatory agencies.



Stage of Development

Numerous scientific publications provide information on NCAUR biodiesel research.

Moving Forward

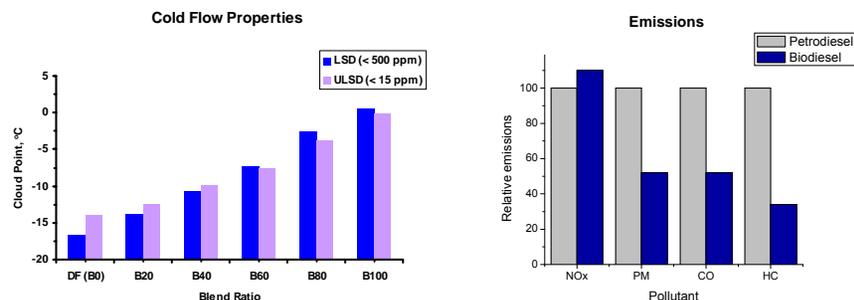
Large-scale availability of biodiesel fuels with modified composition. New strategies to combat low temperature and storage stability concerns, including development of new additives. Faster, better, easier analyses.

Researchers

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