

Winter 2018



The funding landscape has changed significantly since the Foundation started its first biodiesel research and development projects in 1994. Just five years ago, 90% of our project funding came from federal grants. Today, federal sources no longer offer the same opportunities for biodiesel, and NBF is more dependent than ever on non-federal dollars. In 2017, almost half of NBF's funding for critical biodiesel research and education came from individual and corporate contributions. I hope you'll enjoy reading the updates here about our programs including land use change research, educating Congressional staff about biodiesel, and introducing biodiesel to DC Potomac River ferries. I am especially excited to announce the Foundation is expanding its support to young scholars by offering the first Beth Calabotta Sustainability Grant. This program honors Beth's dedication to sustainability research and its impact on biodiesel. We couldn't do this important work without donors such as you.

— Jeff Lynn, President

Sustainability Research

European Biodiesel Board Project - This past summer with funding from NBF, Professor Wally Tyner of Purdue University compared the European GLOBIOM land use model to Purdue's GTAP model. Tyner presented the findings to the EU Parliament, with the aim of improving GLOBIOM and providing powerful data to the two EU houses currently negotiating crop-based biofuel mandates. Tyner identified differences between the models that could reveal ways to improve both models as research continues— particularly in the way each calculates livestock protein sensitivities.

Purdue GTAP Model Updates – Purdue's GTAP model was updated with NBF funding. The improvements were presented for the first time in a recent article in *Biotechnology for Biofuel* (2017). This paper reviews the history of the GTAP model and recent database modifications. The results show that all the changes in the global economy and agricultural sectors cause biofuels land use change (LUC) and associated emissions can be quite different using the 2011 database versus 2004. The results also demonstrate the importance of including land intensification in the analysis. The previous versions of GTAP and other similar models assumed that changes in harvested area equal changes in cropland area. Data from the Food and Agriculture Organization demonstrate this is not correct in several important world regions. The model now includes land intensification. The resulting LUC and emission values are lower as would be expected.

Your tax-deductible gift
makes possible valuable
education and research for
America's Advanced Biofuels

Something New...

Beth Calabotta
Sustainability Grant



NBF's Board of Directors are pleased to launch the Beth Calabotta Sustainability Grant. Established this year, the grant will provide financial aid to students studying initiatives promoting or supporting the use of biodiesel or renewable diesel.

Trained as a chemical engineer, Beth worked 25 years at the Monsanto Company in St. Louis, MO completing her tenure there as Director & Fellow of the Bioenergy Development Program. Beth also served as a NBF director. Over five years, she devoted countless hours to initiating the Foundation's sustainability work increasing the value of the Foundation.

*Application guidelines will be
available on our website.*

Outreach and Education



Biodiesel Ferries on the Potomac River - The National Biodiesel Foundation is working with the Greater Washington Region Clean Cities Coalition (GWRCCC) and the Potomac River Boat Company to introduce environmentally friendly biodiesel in ferries. Biodiesel reduces risks associated with marine fuel use and noise and air pollution. GWRCCC participated on an advisory committee to determine the long-term role of biodiesel to power ferries. Because of NBF's grant and GWRCCC's involvement, biodiesel will be introduced in new wharf ferries this Spring. Due to DC's advisory committee, four additional new large commuter ferries serving destinations in the District, Maryland and Virginia are expected to run on biodiesel as well. Thousands of commuters and tourists will be able to ride cleaner, biodiesel-fueled water-taxis and ferries. The Potomac Riverboat Company and their parent company Entertainment Cruises have also discussed biodiesel fueling solutions for their operations in several other major cities: Chicago, Boston, NY, Philadelphia, Baltimore, Washington, and Norfolk. GWRCCC will continue to be a biodiesel resource to the advisory committee.



NYC Biodiesel Tour for Congressional Staff Scheduled for Spring of 2018 - The New York City Tour is an educational opportunity providing congressional staffers and government officials with current information on biodiesel and Bioheat®. Stops will include the NY City Sanitation Department and emissions test lab, lunch with NYC Councilman Constantinides and a visit to the Bronx Design and Construction Academy. Briefings will be conducted by state and national experts, technology providers, fleet managers and sustainability officers experienced with biodiesel use. The tour is sponsored by HERO BX, Incobrasa Industries, Mid-America Biofuels, Minnesota Soybean Processors, National Biodiesel Board, Renewable Energy Group, Inc., and Western Iowa Energy. For more information, contact: Rosemarie Calabro Tully at rcalabrotully@biodiesel.org.

Donating with Every Purchase



Use Amazon Smile with your Amazon login and password, choose the National Biodiesel Foundation as your charity, and earn money for biodiesel research and education every time you shop on Amazon.com.

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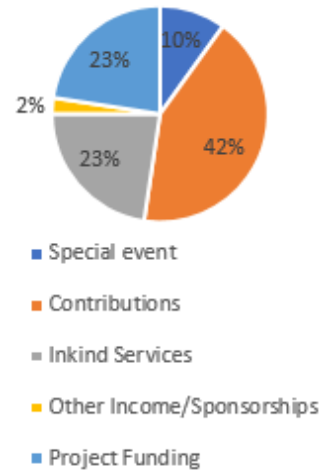
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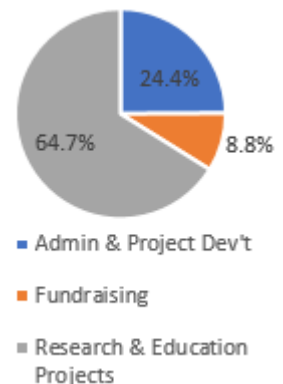
Your Donation Matters

Donations make up almost half of NBF's funding — 100% of which is spent on projects and not administrative costs.

Revenue



Expenses



The next time someone says "Give me a good reason to care about biodiesel," give them five!

Biodiesel...

- is a renewable, clean-burning diesel replacement.
- reduces U.S. dependence on imported diesel.
- creates green jobs and improves our environment.
- is made from sustainable resources including agricultural oils, recycled cooking oil and animal fats.
- meets strict specifications of ASTM D6751.