

**Welcome!**

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# 2019 PROJECT PEER REVIEW

U.S. DEPARTMENT OF ENERGY  
BIOENERGY TECHNOLOGIES OFFICE

**Nichole Fitzgerald**  
Peer Review Chair  
**Bioenergy Technologies Office**

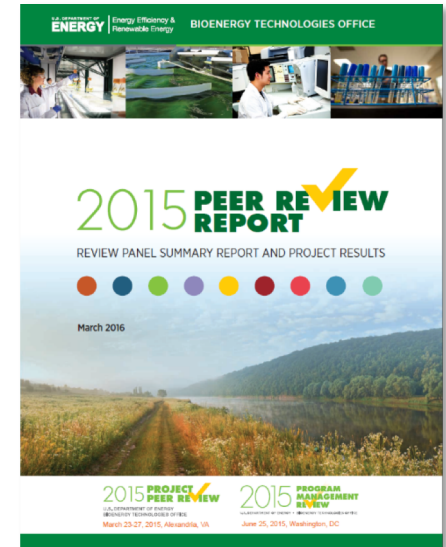
# What is Project Peer Review?

## What?

- Reviewers assess individual projects
  - Technical Approach
  - Progress
  - Relevance
  - Future Directions
- This is an opportunity to review progress and portfolio composition
- 2019 Peer Review Report will be published

## Why?

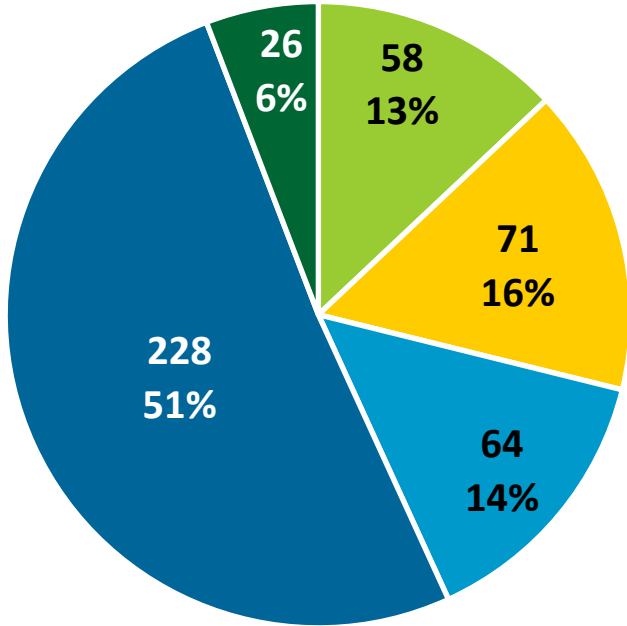
- Inform decision-making on the modification, expansion, or discontinuation of existing projects
- Evaluate the strategic direction of the Office
- Biennial requirement of all EERE programs
- Opportunity for idea sharing amongst awardees



# Presentations and Projects by Technology Area

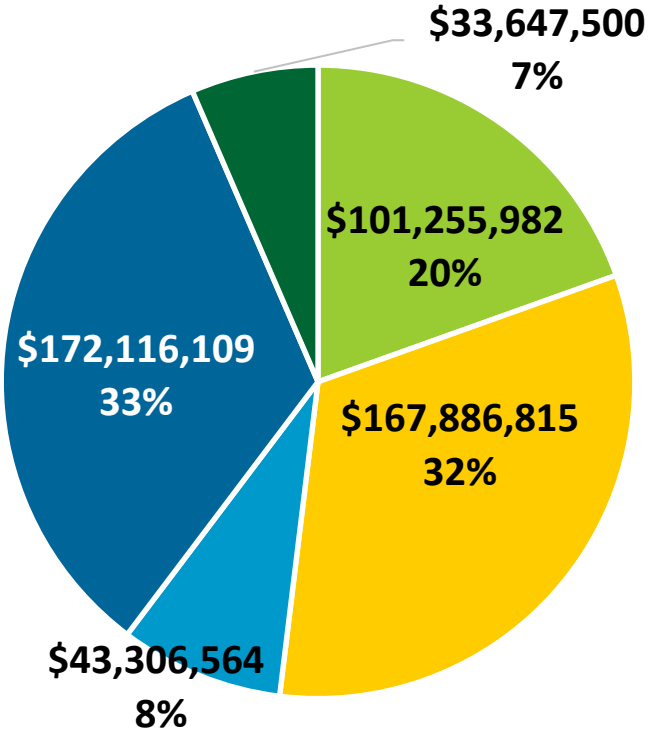
The 2019 Review will cover 447 projects across 5 technology areas, representing a combined value (FY17-19) of ~\$700 M.

By Number of Projects:



By Project Funding:

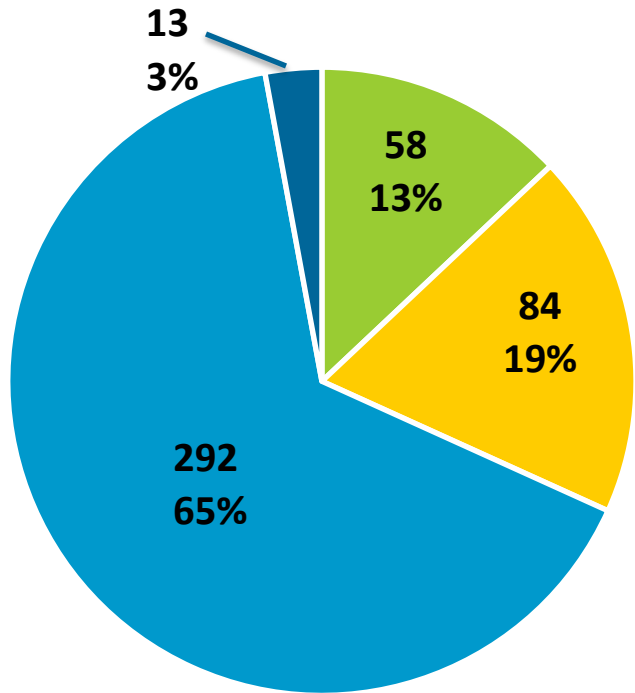
- Advanced Algal Systems
- Advanced Development and Optimization
- Feedstock Supply and Logistics
- Conversion Technologies
- Analysis and Sustainability



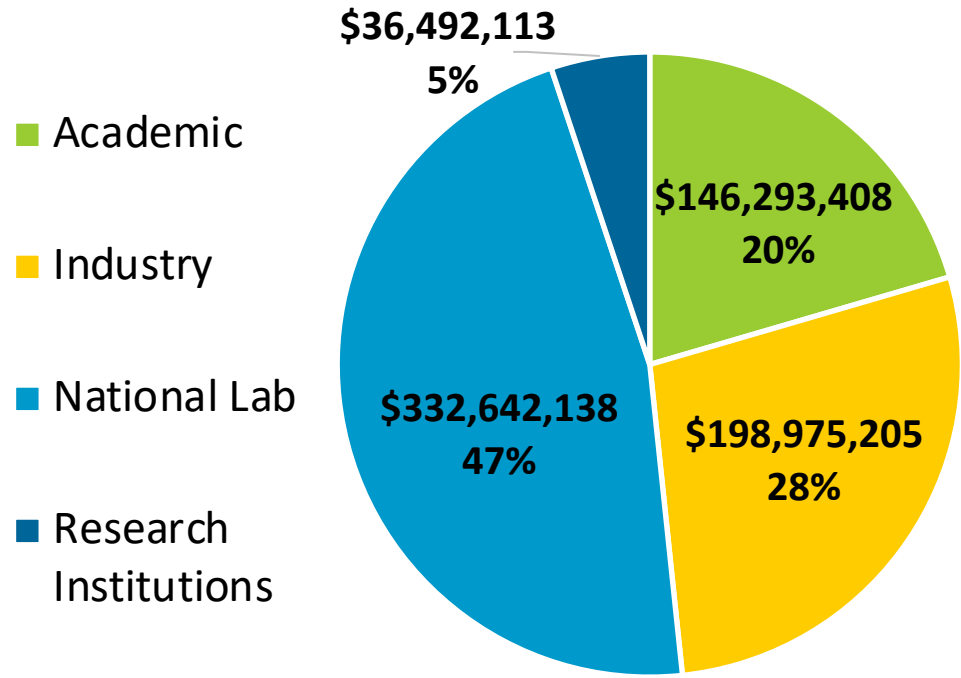
# Projects by Affiliation of Project Recipient

Projects led by our National Labs constitute about 65% of BETO Projects and 47% of project funding.

By Number of Projects:



By Project Funding:

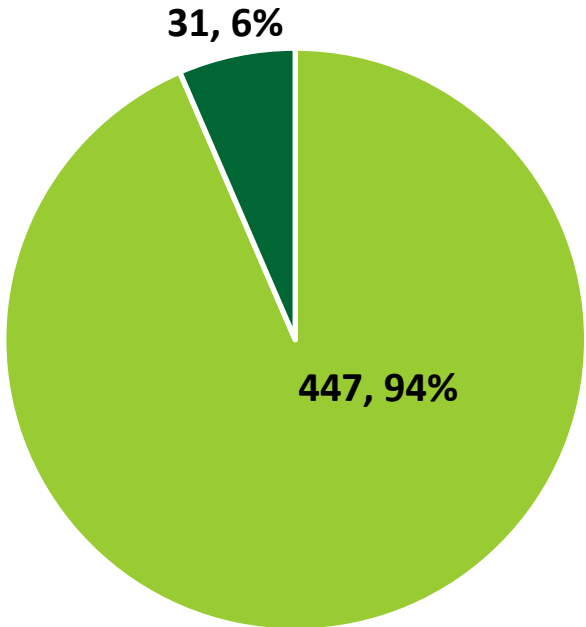


These charts reflect the affiliation only of the lead PI; many projects have lab, industry, and university partners.

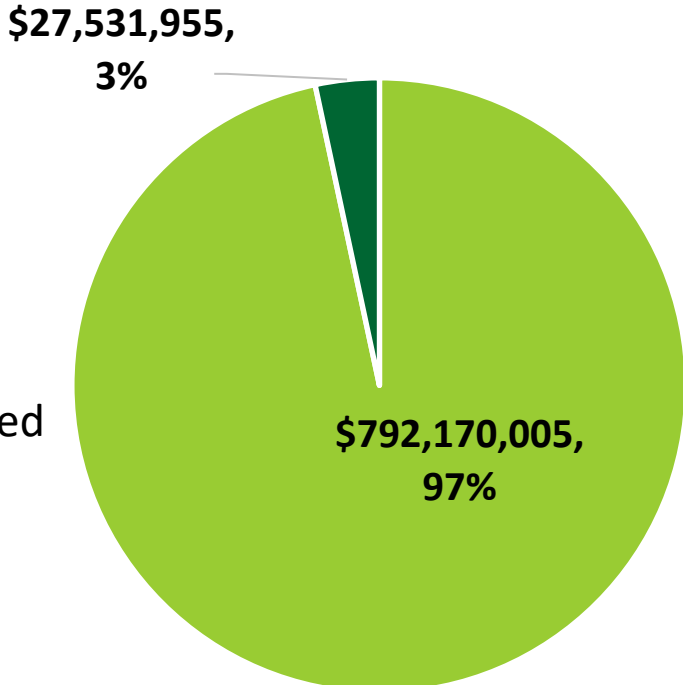
# Reviewed Projects as Percentage of the Portfolio

This review will cover 94% of the projects in BETO's portfolio, which represents 97% of project funding.

By Number of Projects:



By Project Funding:



- Reviewed
- Not Reviewed

# Who is here? Steering Committee

Thank you to our Steering Committee!

NAME	AFFILIATION
Bill Crump*	<i>Leidos</i>
Suzanne Lantz	<i>DuPont</i>
Kelsey McNeely	<i>ExxonMobil</i>
John Sheehan	<i>Colorado State University</i>
Stephen Costa	<i>U.S. Department of Transportation - Volpe</i>

*\*Committee Chair*

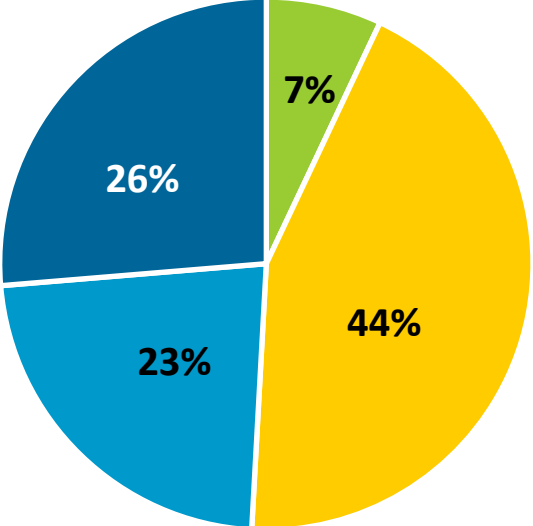
The Steering Committee provides key guidance to:

1. Ensure that the review process is fair and objective
2. Provide broad feedback on overall programs, portfolio, and activities
3. Ensure that the review is captured and recorded accurately

# Who is here? Reviewers

Thank you to our reviewers! BETO has recruited 57 leading experts in their field to serve as reviewers.

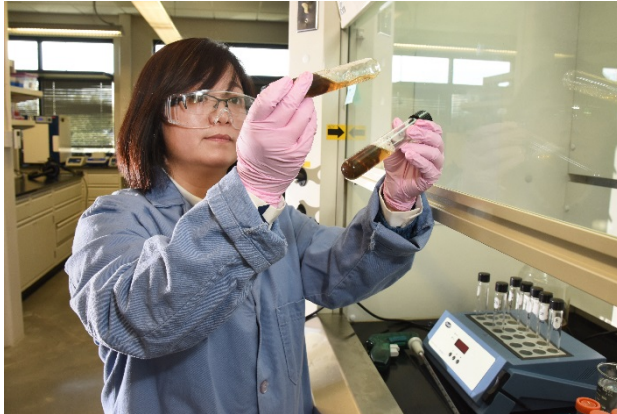
- Non-Profit
- Industry
- Government
- Academia



2019 Reviewers				
Alissa Park	Chris Bradley	Igor Bogorad	Lou Brown	Peter Keeling
Andrea Slayton	Chris Clark	Jason Ren	Luca Zullo	Philip Marrone
Arthur Umble	Chris Rao	Jeff Scheibel	Lynn Wright	Raghubir Gupta
Ashwin Dhanasekar	Cory Phillips	Jesse Bond	Mark Warner	Ray Miller
Becky Ryan	Dana Mitchell	Joe Bozell	Matt Kanan	Steve Van Dien
Ben Gordon	Daniel Lane	John Regalbuto	Matt Lucas	Steven Przesmitzki
Benjamin Levie	Emma Master	Jose Olivares	Matt Tobin	Tim Olson
Bhupendra Khandelwal	Eric Miller	Kara Podkaminer	Melissa Klembara	Toby Ahrens
Brandon Emme	Farzaneh Rezaei	Katie Randolph	Michelle Legatt	Viviane Schwartz
Brendan Scott	Gary Vanzin	Kevin Fingerman	Mike Fatigati	
Bret Strogen	Glenn Farris	Kristin Lewis	Mike Sanford	
Charles A. Abbas	Harry Baumes	Lorenz (Larry) Bauer	Pablo Rabinowicz	

# Who is here? Project Partners

Thank you to our investigators!





# Who is here? DOE and USDA Senior Leadership



**Michael Berube**  
Deputy Assistant  
Secretary,  
Sustainable  
Transportation,  
DOE



**Daniel Simmons**  
Assistant  
Secretary,  
Energy Efficiency  
and Renewable  
Energy, DOE



**Bill Hohenstein**  
Director, Office  
of Energy and  
Environmental  
Policy, USDA

# Who is here? Bioenergy Technologies Office



**Jonathan Male**  
Director



**John Cabaniss**  
Operations Supervisor



**Zia Haq**  
Lead Analyst



**Kevin Craig**  
Program Manager,  
Conversion R&D



**Alison Goss Eng**  
Program Manager,  
Advanced Algal Systems  
Feedstock Supply and  
Logistics



**Jim Spaeth**  
Program Manager,  
Advanced  
Demonstration and  
Optimization

# Who is here?

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A special thanks to:

- Steering Committee
- Reviewers
- PIs and Project Partners
- Bioenergy Technologies Office
- Becca Szymkowicz

# New This Year

- Largest BETO Peer Review ever! Over 550 registrants
- Presentations from Defense Production Act (DPA), Small Business Innovation Research (SBIR), Technology Commercialization Fund (TCF), and other solicitation awardees
- Poster Session (Monday and Tuesday evenings)
- More review panels
  - More specialized reviewers
  - (Slightly) Lighter review loads
- Food on site, more networking opportunities



# Agenda

## Day 1 – MONDAY, MARCH 4, 2019

<i>START TIME</i>	<i>END TIME</i>	<b>Presentation Topic</b>	<b>Presenter</b>
7:30 a.m.	8:30 a.m.	BREAKFAST AND REGISTRATION	
8:30 a.m.	8:40 a.m.	Bioenergy Technologies Office Peer Review Welcome	<i>Nichole Fitzgerald</i>
8:40 a.m.	9:00 a.m.	DOE Office of Energy Efficiency and Renewable Energy Transportation Sector Overview	<i>Michael Berube</i>
9:00 a.m.	9:20 a.m.	Bioenergy Technologies Office Overview	<i>Jonathan Male</i>
9:20 a.m.	9:40 a.m.	Keynote Address: “Clear Vision is the Strategy”	<i>Michael Dishman</i>
9:40 a.m.	9:55 a.m.	BREAK	
9:55 a.m.	10:15 a.m.	Analysis and Sustainability Program Overview	<i>Alicia Lindauer</i>
10:15 a.m.	10:35 a.m.	Advanced Algal Systems Program Overview	<i>Alison Goss Eng</i>
10:35 a.m.	10:55 a.m.	Feedstock Supply and Logistics Program Overview	<i>Alison Goss Eng</i>
10:55 a.m.	11:35 a.m.	Conversion Program Overview	<i>Kevin Craig</i>
11:35 a.m.	11:55 a.m.	Advanced Development and Optimization Program Overview	<i>Jim Spaeth</i>
12:00 p.m.	1:00 p.m.	LUNCH	

# Agenda & Logistics

- Continental breakfast begins at 8:00 each morning
- Lunch is provided at noon each day
- Plenary sessions begin at 8:30 Tuesday and Wednesday
  - Tuesday Theme: Collaborations
    - Video address by EERE Assistant Secretary, Daniel Simmons

8:30 a.m.	8:45 a.m.	Keynote Address by the Director of the Office of Energy and Environmental Policy, USDA	<i>Bill Hohenstein</i>
8:45 a.m.	9:05 a.m.	Bioeconomy Initiative: Implementation Framework and Interagency Collaborations	<i>Alison Goss Eng</i>
9:05 a.m.	9:30 a.m.	Industry Partnerships: Mechanisms, Opportunities, and Success Stories	<i>Liz Moore</i>

- Wednesday Theme: Future Directions

8:30 a.m.	8:50 a.m.	Carbon Management Framework	<i>Kevin Craig and Alison Goss Eng</i>
8:50 a.m.	9:10 a.m.	New Ideas in Waste Carbon Utilization: CO <sub>2</sub> and Wet Wastes	<i>Ian Rowe</i>
9:10 a.m.	9:30 a.m.	Recycling and Upcycling Plastics	<i>Jay Fitzgerald</i>

# Co-Optimization of Fuels and Engines Stakeholder Side Meeting

## Meeting Objective:

Solicit stakeholder feedback on Co-Optima results, future work plan, and additional research needs

## When:

Thursday, March 7, 2019

4:00-5:30pm

Room: Denver 1-2

(Following the Co-Optima review session)



Thank you!

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