



Bioenergy 2015: Opportunities in a Changing Energy Landscape

Working Agenda

Tuesday and Wednesday, June 23-24, 2015
Walter E. Washington Convention Center, Washington, D.C.

Breakout Session Tracks:

Track A: Feedstocks Track

Track B: Conversion Track

Track C: IBRs and Waste to Energy Track

Track D: Finance, Policy, and Communications Track

Tuesday, June 23, 2015	
7:00 a.m.–8:00 a.m.	Breakfast and Registration
8:00 a.m.–8:15 a.m.	Welcome Jonathan Male, Director, Bioenergy Technologies Office (BETO), U.S. Department of Energy (DOE)
8:15 a.m.–8:45 a.m.	Congressional Keynote(s) To be announced
8:45 a.m.–9:00 a.m.	Introductory Keynote David Danielson, Assistant Secretary for Energy Efficiency and Renewable Energy (EERE), U.S. Department of Energy
9:00 a.m.–9:30 a.m.	Morning Keynote / Interview Ernest Moniz, Secretary of Energy, U.S. Department of Energy (<i>Invited</i>)
9:30 a.m.–10:45 a.m.	Plenary I: Policy and Market Overview This session focuses on a mix of issues and policies currently impacting growth and deployment within the bioenergy market. Topics include: state-level advantages and disadvantages of low carbon fuel standards; possibilities surrounding reusing carbon dioxide in algae growth; understanding oil price forecasts and potential impacts on the bioeconomy; and impacts of international biofuels policies (e.g., Brazil).

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10:45 a.m.–11:15 a.m.	Morning Break with Posters and Exhibitors
11:15 a.m.–12:30 p.m.	Plenary II: U.S. Manufacturing in a Global Marketplace This session focuses on a 2015 Industry Snapshot and challenges associated with advanced biorefineries moving overseas.
12:30 p.m.–1:30 p.m.	Lunch
1:30 p.m.– 1:45 p.m.	BETO Award Ceremony
1:45 p.m.– 2:15 p.m.	Afternoon Keynote To be announced
2:15 p.m.– 3:45 p.m.	Breakout Session 1 1-A: Past, Present, and Future Feedstock Resources This session focuses on historical, current, and future national biomass assessment activities in the BETO portfolio. Topics include: ongoing work to address potential supply; feedstock sustainability; and risk management to assure a reliable and sustainable domestic supply of cost-effective biomass for a growing bioeconomy. 1-B: Innovations in Basic Science Across Agencies to Enable Bioenergy This session focuses on historical, current, and future national biomass assessment activities in the BETO portfolio. The panelists will highlight ongoing work to address potential supply, feedstock sustainability, and risk management to assure a reliable and sustainable domestic supply of cost-effective biomass for a growing bioeconomy. 1-C: Biogas and Beyond: Challenges and Opportunities for Advanced Biofuels from Wet-Waste Feedstocks This session focuses on hydrothermal processing of diverse feedstocks, production from waste streams, or synergies between wastewater treatment and biofuels/products. 1-D: The Pitch This session focuses on Innovative bioenergy and bioproduct startups have the opportunity to pitch creative business ideas in the bioeconomy to a panel of judges and conference attendees. The judging panel will provide valuable feedback to the presenters and select a winner.
3:45 p.m.–4:15 p.m.	Afternoon Break with Posters and Exhibitors
4:15 p.m.–5:30 p.m.	Plenary III: Early Market Adopters This session focuses on the rising demand for biofuels and bioproducts with an emphasis on early adoption markets that are driving new innovation. The panel will provide perspectives from the commercial aviation, maritime, and military sectors' need for biofuels to help meet sustainability and security demands, and discuss the opportunities for biomass to make an impact on the commercial products industry.
5:30 p.m.–7:30 p.m.	Evening Poster Reception

Wednesday, June 24, 2015

7:00 a.m.–8:00 a.m.	Breakfast and Registration
8:00 a.m.–8:15 a.m.	Day 2 Introductory Keynote Reuben Sarkar, Deputy Assistant Secretary for Transportation, U.S. Department of Energy
8:15 a.m.–8:45 a.m.	U.S. Environmental Protection Agency (EPA) Keynote Christopher Grundler, Director, Office of Air Quality and Transportation, U.S. Environmental Protection Agency
8:45 a.m.–9:00 a.m.	Introductory Keynote To be announced
9:00 a.m.–9:30 a.m.	Morning Keynote Tom Vilsack, Secretary of Agriculture, U.S. Department of Agriculture (<i>Invited</i>)
9:30 a.m.–10:30 a.m.	Plenary IV: Fuels of the Future: The Co-Optimization of Fuels and Vehicles This session focuses on EERE's emerging work in the co-optimization of fuels and vehicle engines. This research highlights efforts to produce high-performing fuels, including intermediate ethanol blends, which have the potential to out-perform petroleum derived fuels, while significantly reducing carbon emissions.
10:30 a.m.–10:45 a.m.	Morning Break with Posters and Exhibitors
10:45 a.m.–12:15 p.m.	Breakout Session 2 2-A: The Future of Algae-based Biofuels This session focuses on the opportunities for algae-based biofuels and bioproducts in a diversified energy future and the next steps towards seizing those opportunities. Panelists will discuss the challenges of scaling-up production operations, the market role of bioproducts, and the future of algal technologies. 2-B: Conversion: New/Emerging Pathways and Successes in Existing Pathways This session focuses on outcomes of existing conversion pathways, and novel technologies addressing the capabilities of biologically, chemically, and thermochemically derived biofuels and bioproducts from lignocellulosic and algal feedstocks. Panelists will focus on how to strategically leverage innovative and cost-effective technological solutions to meet the challenges faced by this emerging landscape. 2-C: Bringing Biorefineries into the Mainstream This session focuses on the real world experiences of companies advancing through the stages of scale-up from pilot through commercialization, with a special focus on what it takes to build a successful commercial bioenergy business. 2-D: How States are Promoting Advanced Biofuels This session focuses on the initiatives, incentives, and regulations that state governments could employ to accelerate growth of the advanced

	<p>biofuels economy. From the role of regional consortia to the most effective and enticing forms of financing, the panelists' discussion will center around “State policy in an era of evolving federal support.” While the greater focus of this panel will be on biofuels, we encourage some discussion on biopower and bioproducts to enrich audience understanding of an increasingly complex and diversified bio-economy.</p>
12:15 p.m.–1:15 p.m.	Lunch
1:15 p.m.–1:30 p.m.	BETO Multi-Media Presentation
1:30 p.m.–1:45 p.m.	<p>BioenergizeME Infographic Challenge Award Ceremony Recognition of the student team that won the BioenergizeME Infographic Challenge</p>
1:45 p.m.–3:15 p.m.	<p>Breakout Session 3</p> <p>3-A: Sustainability This session focuses on the challenges and opportunities with regard to issues of sustainability within the bioeconomy.</p> <p>3-B: The Changing Landscapes for Biobased Chemicals: A Decade After the Top Value Added Chemicals from Biomass This session focuses on changes in biobased chemicals. It has been more than a decade since DOE published its first “Top Value Added Chemicals from Biomass” report. Panelists will discuss the vision that shaped these reports, recent biobased chemicals manufacturing successes, and the outlook for biomass-derived products.</p> <p>3-C: Renewable Gaseous Fuels This session focuses on renewable gaseous fuels (most commonly biogas), a product of anaerobic digestion of animal and agricultural wastes, and waste water treatment byproducts. They can be used as fuels, used to solve transportability of biomass problems, injected into natural gas pipelines if properly cleaned up and they can be processed with carbon dioxide to produce liquid biofuels. Biogas itself can be a vehicle fuel and a component of a strategy to “green” the natural gas pipe system. Hydrogen produced from solar, wind or biogas is also a renewable gaseous fuel.</p> <p>3-D: Reaching Your Stakeholders: Effectively Engaging and Educating Key Audiences This session focuses on demonstrated communication strategies and tactics to engage and educate key audiences—such as the general public, communities, policy makers, and investors—on bioenergy. Panelists, through presentations and facilitated discussion, will provide attendees with unique insights, success stories, and best practices and lessons learned that improved public perception of bioenergy at local, regional, and national levels.</p>
3:15 p.m.–3:30 p.m.	Afternoon Break with Posters and Exhibitors
3:30 p.m.–4:30 p.m.	Plenary V: Environmental Impacts of Biofuels

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	This session focuses on issues surrounding environmental benefits and impacts of bioenergy.
4:30 p.m.–5:00 p.m.	Afternoon Keynote To be announced
5:00 p.m.–5:15 p.m.	Conference Close and Thank you Jonathan Male, Director, Bioenergy Technologies Office, U.S. Department of Energy