

Algae Cultivation for Carbon Capture and Utilization
U.S. Department of Energy, Bioenergy Technologies Office
 May 23–24, 2017
 Orlando, FL

Tuesday, May 23, 2017

Subject matter experts will meet to discuss carbon dioxide capture and utilization (CCU) applicability to algae cultivation for the production of biofuels and bioproducts. Following presentations from the U.S. Department of Energy (DOE) offices of Bioenergy Technologies and Fossil Energy as well as project performers, participants will break into small groups to share information about the state of this technology and the challenges that must be addressed to achieve commercial-scale systems.

<i>Time</i>	<i>Agenda Item</i>	<i>Speaker</i>
8:15 AM – 8:30 AM	Welcome and Introduction: DOE Bioenergy Technologies Office	Christy Sterner, Bioenergy Technologies Office
8:30 AM – 8:45 AM	Introduction to Collaboration Platform	Lauren Illing, BCS, Incorporated
8:45 AM – 9:00 AM	Introduction: DOE Office of Fossil Energy	Lynn Brickett, National Energy Technology Laboratory
9:00 AM – 9:15 AM	Orlando Utilities Commission Interest in CCU	Robert Teegarden, Orlando Utilities Commission
9:15 AM – 9:30 AM	Overview of ASU Project Work in CCU	Thomas Dempster, Arizona State University
9:30 AM – 9:45 AM	Overview of Global Algae Innovations Project Work in CCU	David Hazlebeck, Global Algae Innovations
9:45 AM – 9:55 AM	Break	
9:55 AM – 11:45 AM	Open Forum Presentations	<i>Five-minute briefings from pre-selected participants on topics of their interest. Suggested focus on achievements to date, current barriers, and outlook for the future of CCU and algal CCU.</i>
11:45 AM – 12:45 PM	Lunch	<i>Provided</i>
12:45 PM – 2:15 PM	Breakout Session 1: Logistics and Siting Considerations	
2:15 PM – 2:25 PM	Break	
2:25 PM – 3:55 PM	Breakout Session 2: Design and Engineering Considerations	
3:55 PM – 4:05 PM	Break	
4:05 PM – 5:35 PM	Breakout Session 3: Assessment of Potential Commercial Application and Identifying Synergies	
5:35 PM – 5:45 PM	Closing Summary for Day 1	Christy Sterner, Bioenergy Technologies Office

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Day 2 Report Out from Breakout Sessions followed by a Project Site Tour

8:50 AM – 9:00 AM	Convene	Christy Sterner, Bioenergy Technologies Office
9:00 AM – 11:30 AM	Plenary Report Outs and Group Discussion	Breakout Session Rapporteurs
11:30 AM – 11:45 AM	The Orlando Utilities Commission Algae CO ₂ Utilization Project	Tryg Lundquist, MicroBio Engineering
11:45 AM – 12:00 PM	Summary Conclusions and Thank You to Participants	Christy Sterner, Bioenergy Technologies Office
12:00PM – 1:00 PM	Lunch	<i>On your own, details for lunch options at Registration Desk.</i>
1:00 PM – 5:00 PM	Project Site Tour	The Orlando Utilities Commission Algae CO ₂ Utilization Project