

# Agenda

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>Renewables in Texas’s Deregulated Energy Marketplace</b><br>Current landscape<br>Net-metering<br>Economics of solar energy and storage<br>Virtual power plants                                                                                         | M. Abdalla    |
| <b>Keys to Developing a Solar Project in Texas</b><br>Solar leases—foundation of the project<br>Ensuring milestones are met<br>Preparing the project for sale<br>Funding the interconnection security deposits<br>Negotiating the sale of the Project LLC | S. Deatherage |
| <b>Battery Energy Storage for Alternative and Renewable Energy</b><br>The business of energy storage<br>Battery technology<br>Technology/design for field implementation<br>Program management/process for field implantation                             | C. Boyer      |
| <b>Solar/Solar Based R&amp;D Technologies</b><br>Renewable energy sources<br>Solar PV<br>Fuel cells<br>Storing solar energy via solar fuels                                                                                                               | K. Rajeshwar  |
| <b>Biodiesel Production and Marketing</b><br>Introduction to biodiesel<br>Technology overview<br>Economic drivers<br>State of the market                                                                                                                  | B. Hubbard    |
| <b>Energy from Anaerobic Digestion of Animal Waste</b><br>Introduction to energy production<br>Technology overview<br>Economic drivers<br>State of the market                                                                                             | B. Hubbard    |

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Current Issues in Renewable Energy Regulation and Development

Arlington, TX - Friday, February 7, 2020

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## Learning Objectives

- You’ll be able to:**
- Explore** the role of renewable energy in Texas’s deregulated energy marketplace.
  - Explain** net-metering and the economics of solar energy generation and storage.
  - Learn** about using solar leases.
  - Examine** the technology and design of battery storage for field implementation.
  - Explore** solar fuel cells.
  - Produce** energy from anaerobic digestion of animal waste.



# Current Issues in Renewable Energy Regulation and Development

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- Learn** about the current landscape in Texas’s deregulated energy marketplace
- Understand** battery storage for alternative and renewable energy
- Examine** the keys to developing a solar project in Texas
- Explore** solar and solar-based R&D technologies
- Consider** energy from anaerobic digestion of animal waste
- Discuss** biodiesel production and marketing

## Continuing Education Credits

|                                                                                                                                 |                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Attorneys</b><br>7.5 Texas CLE Hours<br>Specialization:<br>Administrative Law<br>Real Estate Law<br>Oil, Gas and Mineral Law | <b>Professional Engineers</b><br>7.5 PDHs                                                    |
|                                                                                                                                 | <b>Paralegals</b><br>7.5 Real Estate Law CLE Hours<br>7.5 Oil, Gas and Mineral Law CLE Hours |



Faculty

**Mohammed Abdalla** *Good Faith Energy*  
Good Faith Energy was founded by Mr. Abdalla in 2014 with a focus on developing high quality solar PV and storage projects with a local workforce. He has successfully overseen the development of 3MW of solar and 1 mWh of storage, mainly on the distributed generation side. Mr. Abdalla received the 2017 Solar Advocate of the Year Award and 2018 Greenbiz 30 under 30 award. He received a BSBA degree from the University of Tulsa, and he has an extensive background in the oil and gas corporate world. He currently resides in Dallas and enjoys spending time with his wife and daughter.

**Scott Deatherage** *Scott Deatherage Law*  
Mr. Deatherage is a founding partner in the Austin law firm of Smith and Brown, LLP. Over the last 30 years, he has focused on environmental issues, energy, and climate change. For most of his career, he worked with large law firms in Dallas, but two yeas ago he formed his own firm and also began pursuing entrepreneurial opportunities. He earned his B.A. degree in Letters from The University of Oklahoma in 1984 with highest honors, with minors in Botany and French, and a J.D. degree from Harvard Law School in 1987 *cum laude*, where he served as the articles editor for the *Harvard Environmental Law Review*. Mr. Deatherage was one of the founders of the American Bar Association’s Environmental Disclosure Committee. He has published a book entitled *Carbon Trading Law and Practice*, originally published by Oxford University Press. He has taught Climate Change Law at the University of Texas Law School.

**Chris Boyer** *AES Distributed Energy*  
Dr. Boyer develops solar and storage technologies to bring better energy to the world. He is the product solutions manager for AES Distributed Energy, and he has been working with solar, wind, fuel cells, generators, energy storage and microgrids since 1995. Prior to AES his work included companies such as Lynntech Inc., Standard Renewable Energy, Shell Global Solutions, Lockheed Martin Intelligent Power Solutions, the Perfect Power Institute, Sabre Industries and Amber Waves Energy.

Seminar Information

**The Bob Duncan Center**  
2800 South Center Street  
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**Tuition**  
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**Krishnan Rajeshwar** *UTA-Arlington*  
Dr. Rajeshwar is a distinguished university professor at the University of Texas at Arlington. He is also the founding director of the Center for Renewable Energy Science & Technology (CREST) on campus. He was elected vice president of the Electrochemical Society (ECS) and is now a past president of the ECS. He is a past editor of the *ECS Interface* and currently serves on the editorial boards of several electrochemical journals. He is currently the editor-in-chief of the *ECS Journal of Solid-State Sci. & Technol.* After post-doctoral training at Colorado State University, he joined UT Arlington in 1983. His research interests span a wide spectrum and include photoelectrochemistry, solar energy conversion, renewable energy, materials chemistry, semiconductor electrochemistry, and environmental chemistry. Dr. Rajeshwar is a fellow of the Electrochemical Society and received the Energy Technology Division Research Award of the Electrochemical Society in 2009. He received the Research Award of the Electrodeposition Division at the recently-concluded fall meeting of the ECS in Atlanta, Georgia. He has authored monographs and edited books, special issues of journals, and conference proceedings on energy conversion. He is the author of over 400 peer-reviewed and well-cited publications (cited over 20,000 times, h-index: 66).

**Benjamin Hubbard** *Nexus PMG*  
Mr. Hubbard is the CEO of Nexus PMG, an engineering firm that specializes in built-to-spec solutions for large scale infrastructure projects. He is a program management consultant experienced in business strategy, strategic development and construction management. He has a proven track record of leading domestic and international high-profile construction projects in fast-paced environments. His experience spans across multiple industries including mining and metals, power, and forestry including wood pellet plants. Mr. Hubbard has the powerful ability to translate strategic organizational goals into clear operational plans leading to measurable results.

Additional Learning

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Wed., Jan. 8, 2020, 1:30 - 3:30 PM CST
  - **Technical Writing and Writing Documents**  
Thurs., Jan. 9, 2020, 11:00 AM - 1:00 PM CST
  - **Practical Floodplain Management**  
Thurs., Jan. 8, 2020, 1:30 - 3:30 PM CST

- Geothermal Heating and Cooling**
- **Thermodynamic Basics of Geothermal Systems**  
Thurs., Jan. 9, 2020, 11:00 AM - 12:00 PM CST
  - **Understanding Earth Loop Systems**  
Thurs., Jan. 9, 2020, 12:30 - 2:00 PM CST
  - **Choosing and Designing Geothermal Systems**  
Fri., Jan. 10, 2020, 11:00 AM - 12:00 PM CST
  - **Evaluating and Maintaining Geothermal Systems**  
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Registration

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