

**Iowa Energy Center  
Board Meeting Agenda  
Thursday, August 5, 2021  
1:00 p.m.  
IEDA, 1963 Bell Avenue, Suite 200  
Des Moines, Iowa  
[Join Microsoft Teams Meeting](#)  
Or Dial 1.515.348.6300  
Conference ID: 659 520 157#**

The Iowa Energy Center Board may go into closed session pursuant to Iowa Code §21.5(1)a, §15.118, §22.7.3, §22.7.6 and §22.7.8 to review and discuss records IEDA is required to treat as confidential under Iowa law. This includes confidential business and financial information about applicants and industrial prospects with which the Authority is currently negotiating.

- I. Welcome & Introductions**
  - A. Roll Call
  - B. Approval of May 13, 2021 Meeting Minutes

*Troy DeJoode*  
*Betty Hessing*  
Action
  
- II. Public Comment Period**

A public comment period will be held at this time and is limited to 10 minutes. If you are interested in offering a comment, please email the board administrator at [Betty.Hessing@IowaEDA.com](mailto:Betty.Hessing@IowaEDA.com) in advance of the meeting and provide your name and the topic of your comment.
  
- III. Fiscal Update**

*Terry Roberson*  
Information
  
- IV. Legislative Update**

*Kristin Hanks-Bents*  
Information
  
- V. Competitive Grant Program**
  - A. Grant Program Update
  - B. Competitive Grant Program Funding Recommendations for Awards
    - 1. 407769 – *Driving Electric in Rural NE Iowa: An Analysis, Planning, Workforce, and Major Employer Partnership – Winneshiek Energy District*
    - 2. 406855 – *Developing a Pilot-scale Business Model for Monetizing Carbon Capture on Solar Energy Farm – Impact7G*
    - 3. 406335 – *Advanced 3D optical sensing and peening technologies for crack mitigation in natural gas pipelines – Iowa State University*

*Amber Buckingham*  
Information  
Roll Call

4. *410656 – From the Landfill to the Grid: Repurposing Used Batteries for Resilient Grid Storage – Iowa State University*
  5. *408866 – Electrical Energy from Ethanol - University of Iowa*
  6. *406441 - Modeling Solar Radiation Potential and Urban Heat Utilizing Mobile Sensors and Topographic Data – University of Northern Iowa*
  7. *406939 – Building Enclosure Council of Iowa Educational Programs - Building Enclosure Council of Iowa*
  8. *410833 – Artificial Intelligence-Assisted Robotic Mapping of Underground Infrastructure - Iowa State University*
  9. *406042 – Control and Coordination of Solar+Storage for Enhanced Resiliency - Iowa State University*
  10. *408802 – GIS Tool to Plan Mitigation and Recovery of Gridlines Under Natural Hazards to Improve Resiliency – Iowa State University*
  11. *405974 – Mobile Power for Rural Wastewater Treatment and Community Resilience - Baldrige Environmental Services, LLC*
  12. *406114 – Micro-DERMS: DERMS for Real-time Monitoring & Control of Mobile-Microgrids and DER Distribution Grid – Iowa State University*
- C. Competitive Grant Program Recommendations for Denial Roll Call
1. *405988 – Chemically Recyclable carbon fiber composites for wind Turbine blades - Iowa State University*
  2. *410987 – Treating Digestate from Municipal Digesters to Reduce Energy Consumption and GHG/Carbon Emissions – TPR Enterprises dba EcoEngineers*
  3. *406064 – A Novel, Plasma-based, Adaptive Flow Control System For Improved Wind Turbine Efficiency – Iowa State University*
  4. *406343 – Developing a Pilot Scale Technology to Reclaim Lead and Other Materials from Solar Photovoltaic Panels – GKAT Reclamation*
  5. *408201 – Energy-Dense, Low-Cost Batteries for Grid Modernization and Next Generation Electric Vehicles – Iowa State University*
  6. *406710 – Training programs for currently incarcerated Iowans to develop a new and capable energy workforce – Iowa State University*
  7. *406445 – Demonstration of Cost-Effective, Scalable Zero-Energy Residential Building Design for Iowa Climates – University of Northern Iowa*
  8. *406707 – Iowa River Power Company - Hydropower on Iowa Rivers - Iowa River Power Company*

9. 406020 – *Low-grade industrial waste heat energy harvesting – Legov Systems Group, LLC*
10. 410096 – *Applications of Cybersecurity for the energy sector – Iowa State University*
11. 410735 – *The Use of Biochar for Producing Next-Generation Electricity Harvesting Asphalt Pavement – Iowa State University*
12. 410553 – *Laser Based Biomass Conversion of Corn Husk for Renewable Energy Applications – Iowa State University*
13. 406032 – *Recycling of Used Li-Ion batteries to extract lithium, anode and cathode materials – Iowa State University*
14. 405979 – *Iowa Energy Extension Program - Iowa State University*
15. 406950 – *Electrochemical Conversion and Storage of Wind Energy into Hydrogen Electrofuel – Iowa State University*
16. 406176 – *Economic Sustainability of Clean Power Grid under Uncertainty – Iowa State University*
17. 410588 – *Visium Bio-oil Hydrothermal Liquefaction Refinery – Visium LLC*
18. 410592 – *Prudent Generation Planning towards Carbon Neutrality – Iowa State University*
19. 406879 – *Iowa Agriculture Carbon Assessment for Emerging Carbon Markets - Iowa State University*
20. 406728 – *Lawton Substation BESS - Northwest Iowa Power Cooperative*
21. 407051 – *Corn Belt Power Cooperative Trial Battery Project – Corn Belt Power Cooperative*
22. 411285 – *Electric Grid Resiliency Study – Iowa Association of Municipal Utilities*
23. 406444 – *Iowa STEM Energy Teacher Externships – University of Northern Iowa*
24. 407000 – *High Strength Aluminum Carbon-Nanotube Composite for Grid Transmission Line – Iowa State University*
25. 406013 – *Bio-based asphalt from corn stover – Frontline Bioenergy*

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|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>VI.</b>   | <b>Alternate Energy Revolving Loan Program (AERLP)</b>                                                                                                    |                                                                    |
|              | A. 20-AEL-009 Amendment to Keaton Martin Reduction of Loan Amount and Project Size                                                                        | Stephanie Weisenbach<br>Roll Call                                  |
| <b>VII.</b>  | <b>Energy Infrastructure Revolving Loan Program (EIRLP)</b>                                                                                               |                                                                    |
|              | A. Notice of Intended Action for amendments to 261 IAC Chapters 403 and 405 and proposing a new Chapter 406, Energy Infrastructure Revolving Loan Program | Lisa Connell<br>Roll Call                                          |
| <b>VIII.</b> | <b>Iowa Mobile Microgrid Development and Applications</b>                                                                                                 | Anne Kimber – Electric Power Research Center at ISU<br>Information |

**IX. Other Business**

- A. Energy Office Updates
- B. Special IEC Board Meeting is September 30, 2021
- C. Next Quarterly Board Meeting is November 18, 2021

*Troy DeJoode*  
*Brian Selinger*

**X. Adjournment**

*Troy DeJoode*

**Members:** Troy DeJoode - Chair, Dan Nickey – Vice Chair, Stuart Anderson, Debi Durham, Geri Huser, Jennifer Johnson, Terry Kouba, Craig Just, Valerie Newhouse, Rick Olesen, Timothy Whipple, Gul Kremer-Okudan and Jenae Jenison

Please Note: The meeting will convene no earlier than stated above, but may begin later. Agenda items may be considered out of order at the discretion of the Chair for each meeting. If you require accommodations to participate in this public meeting, call 515-348-6197 to make your request. Please notify us at least 48 hours in advance.