



## JUNE 2019 EDITION

Fall Grant Cycle Now Open!



Looking for additional resources to kickstart your innovative energy and efficiency projects? The DEED funding for [utility grants](#) fall cycle is now open! The deadline to apply is **August 15th, 2019**.

[DEED members](#) may apply for **up to \$125,000 in grant funding** for their innovative utility projects. Grants support projects that improve utilities by increasing efficiency, reducing costs, investigating new technologies, offering new services, and improving practices to better serve customers. Contact your region's [DEED board director](#) and APPA staff to obtain guidance on your project idea. For more information, view DEED's [funding page](#), and our past webinars [Tips when Applying for a DEED Grant](#) and [Maximizing your DEED Membership Benefits](#).

To get started and gain access to the application, email [DEED@PublicPower.org](mailto:DEED@PublicPower.org), or call **202-467-2900** and ask for DEED program assistance.

### DEED Scholarships Approved at Spring Board Meeting

Following up on our May issue of the DEED Digest, below are the eight educational scholarship recipients and fourteen internships approved at the Spring DEED Board of Directors meeting on April 3rd-4th, 2019 in Colorado Springs, CO.

#### Educational Scholarships

- **Dylan Smith**, Chippewa Valley Technical College; Rice Lake Utilities, WI

- **Peter Powalisz**, Northeast Wisconsin Technical College; Manitowoc Public Utilities, WI
- **Andrew Chow**, University of California Berkeley; Silicon Valley Power, CA
- **Tanner Clark**, Tennessee Technological University; Lewisburg Electric System, TN
- **Ashley Rothmier**, University of Kansas; Independence Power and Light, MO
- **Benjamin Johnson**, University of Nebraska-Lincoln; Nebraska Public Power Utility, NE
- **Jennifer Conde**, University of California Berkeley; Pasadena Water & Power, CA
- **Gregory Boudreau**, Georgia Institute of Technology; Georgetown Utility Systems, GA

### Student Internships

- CS-2247 **Energy Efficiency Services Outreach Coordinator for Retail Customer Relations**, Illinois Municipal Electric Agency, IL [READ MORE](#)
- CS-2248 **CDE Lightband Internship Summer 2019**, CDE Lightband, TN [READ MORE](#)
- CS-2249 **Electrical Engineering Intern**, Kaukauna Utilities, WI [READ MORE](#)
- CS-2250 **Asset Management and GIS Intern**, Westfield Board of Public Utilities, NY [READ MORE](#)
- CS-2251 **Solar Energy Educational Outreach Development**, Menasha Utilities, WI [READ MORE](#)
- CS-2252 **Electrical Engineer Intern**, Littleton Electric Light Department, MA [READ MORE](#)
- CS-2253 **Coordinator and Analyst of New Recloser Technology on Worst Performing Feeder**, Ocala Electric Utility, FL [READ MORE](#)
- CS-2254 **Engineering Intern – A**, Independence Power & Light, MO [READ MORE](#)
- CS-2255 **GIS Enhancement**, Florence Utility Commission, WI [READ MORE](#)
- CS-2256 **Electric Operations Intern**, New Richmond Utilities, WI [READ MORE](#)
- CS-2257 **Engineering Intern – B**, Independence Power & Light, MO [READ MORE](#)
- CS-2258 **Internship for Developing the Value of Public Power Campaign**, Missouri River Energy Services, MO [READ MORE](#)
- CS-2259 **Renewable Cost Calculator**, Heartland Consumers Power District, SD [READ MORE](#)
- CS-2260 **Common Web-based Communication Platform for Joint-Action Agencies for HCI Products and Services**, Northern California Power Agency, CA [READ MORE](#)

### Dig Deeper with DEED: AMI Data Management



A recent APPA article, [Utilities using AMI infrastructure, data, in multiple ways](#) highlights a U.S. Department of Energy report, [Leveraging AMI Networks and Data](#), a guide to the different ways that utilities are using AMI.

Related DEED AMI completed grants include:

- Algona Municipal Utilities' [A Tool for Mining AMI Data to Model Customer Loads for Small Public Power Utilities](#); the complete toolkit link is available under the Results to Date section.
- Sacramento Municipal Utility District's [A Public Power Best Practices and Lessons Learned Report on Smart Grid](#)
- DSTAR's [Best Practices for Integration of Utility Applications](#)
- DSTAR'S [Smart Grid Impact on Distribution Reliability](#)
- City of Palo Alto Utilities' [Methodology to Evaluate Volt/VAR Optimization Implementation](#)
- Kansas City Board of Public Utilities' [Implementing Home Area Network \(HAN\) Technology With Advanced Metering Infrastructure \(AMI\) for Municipal Utilities](#)
- Town of Benson's [AMI Implementation Internship](#)

- Concord Municipal Light Plant's [Monitoring Voltage of the distribution system in Real Time Using Smart Grid AMI](#)

Curious for more? Check out some of our **current** AMI focused projects:

- ElectriCities of North Carolina's [Applications for Data Analytics Within Public Power Utilities](#)
- Algona Municipal Utilities' [Customer Clustering Using AMI Tool for Small Public Utilities](#)
- Emerald People's Utility District's [AMI Connected Analytics Platform](#)

## Recently Completed Projects

One grant and two scholarships have wrapped up since our last newsletter. Visit the [DEED Project Database](#) for our repository on hundreds of outstanding research projects funded by DEED. Search this unparalleled database to learn what other public power utilities like yours have done. Discover how you can replicate the success of research projects and get ideas for projects you can conceive and submit for DEED funding.

### **G-400 Using Consumer Engagement Tools to Build Better Relationships Between the Customer and Utility**

In an effort to strengthen the relationship between the consumer and energy provider, **Cleveland Public Power** (CPP) and Brilliancy Incorporated embarked on a 24-month pilot program to increase residential customer engagement in their community. The pilot enabled CPP to collect critical household information and demographic data which aids in making business decisions. It allows the consumer to monitor their energy use, while allowing CPP to track and monitor changes in participant consumption, and identify applications of consumer usage, in addition to collecting participant energy data. [Access this toolkit](#) to evaluate data and implement incentives and rewards that increase consumer engagement in marketing, billing, online consumer experiences, and overall customer satisfaction.

### **S-246 Energy Storage Intern**

**Austin Energy** hired a student intern, Julia Conger, student at the University of Texas at Austin to analyze data relevant to the functionality and costs of energy storage on the distribution grid. The project covers the "value of a VAR" and analyzes the advantages of providing reactive power via energy storage systems (ESS), as demonstrated in the Austin Sustainable and Holistic Integration of Energy Storage and Solar PV (SHINES) project. Using SHINES as a case study, this project determines how sustainable smart grid technologies can control reactive power to provide value to the utility and its diverse customers. [READ MORE](#)

### **S-247 Cost and Energy Implications of Energy Sector Transformation on Water Heating Systems**

**Salt River Project** (SRP) sponsored a student research grant for Naushita Sharma, a student at Arizona State University aiming to understand the potential benefits of shifting the fuel mix in heating systems from natural gas to electricity in Phoenix area households. The project assessed possible gas-to-electric and gas-to-renewables transition pathways and potential benefits in water heating systems, while also investigating public perception and industry readiness for such mechanisms. The research discusses the impacts of financial, social and technical design parameters that may affect the large scale applicability of such systems in the current changing energy mix. [READ MORE](#)

## U.S. DOE Promotes Advanced Manufacturing & Supercomputing

In early May, DOE convened an **InnovationXLab Summit** focused on Advanced Manufacturing at Oak Ridge National Laboratory. The event showcased the broad array of technical resources available from **DOE's 17 national laboratories** that can be leveraged by industry, investors, universities, and government partners to address challenges in energy innovation.

## Salt River Project Employees Win Record Number of EPRI Awards

A record number of Salt River Project (SRP) employees have been selected to receive prestigious Technology Transfer Awards from the Electric Power Research Institute (EPRI). An SRP article, [Salt River Project Employees Win Record Number of EPRI Technology Transfer Awards](#), recognizes the employees for their achievements in collaborative research and development projects.



Back row from left: Kathy Knoop, Nate Tate, Philip Augustin, Jeff Neuenfeldt, Rob Trask and Brian Zimmerman. Front row from left: Oscar Montano, Greg Kornrumpf, Su Su Win Thu, Elvy Barton, Alejandra Mendez and Chico Hunter.

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### Contact

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