

American Public Power Association

DEED digest

OCTOBER 2019 EDITION

DEED Webinars: Hear first-hand from public power innovators about their DEED supported projects

[TOMORROW: 2019 Energy Innovator Winners Share New Ideas in Reliability, Recruitment, and Energy Efficiency](#)

The American Public Power Association's Energy Innovator Award recognizes winning ideas from its DEED R&D program. Three recent winners explain how they solved problems and addressed needs in their communities with new technologies, initiatives, and services.

Fayetteville Public Works Commission will review an innovative new method to locate faults in the electricity distribution system to limit outage durations and reduce callouts. **Nebraska Public Power District** will describe their "Pathways to a Technical Future" program to embed skills for energy careers in the STEM curriculum for students in kindergarten through college. The **City of Palo Alto Utilities** will discuss their Home Efficiency Genie program that offers free energy efficiency advice by phone and a subsidized in-home assessment for energy and water efficiency to community residents.

Learn more about the challenges and successes of these three pioneering initiatives by joining us TOMORROW, **Wednesday, October 9th at 2:00 PM EST** to hear from all three utilities.

[Register Now](#)

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DEED Webinars

A chronological listing of DEED webinars is posted for DEED member only access [here](#).

DEED webinars are provided free to DEED members. To find out if you are a DEED member, [click here](#).

This webinar's speakers include:

- **Rick Anderson**, Electrical Engineering Manager, Fayetteville Public Works Commission
- **Chad Johnson**, Senior Education Specialist, Nebraska Public Power District
- **Scott Melberg**, Utility Program Manager, City of Palo Alto Utilities
- **Lisa Benatar**, Utility Program Manager, City of Palo Alto Utilities

[DEED Webinar: Identifying Ways to Reduce Energy Consumption in Commercial Food Service Equipment](#)

Food service facilities are the largest energy users in the commercial building sector, consuming as much as

five times more energy per square foot than any other type of commercial building equipment. Despite high operating costs and the large number of facilities, commercial food service operators continue to use small plug load appliances which represent a large energy load. **Silicon Valley Power** (SVP) worked with Frontier Energy to understand the energy consumption of smaller plug load food service appliances operating without the removal of heat load in the commercial food sector.

In this webinar, we will demonstrate and characterize the energy savings potential, cost effectiveness, and improved cooking performance of energy efficient equipment when compared with baseline equipment. Utilities can use this information to determine new equipment to incorporate into their energy efficiency programs and educate their customers on alternative food service equipment.

Who Should Participate?

Utility staff who work with commercial and key account customers, energy services, new technologies, and energy efficiency programs.

This webinar's speakers include:

- **Mary Medeiros McEnroe**, Public Benefits Program Manager, Silicon Valley Power, CA
- **Edward Ruan**, Engineer, Frontier Energy

Join us on **Wednesday, October 23rd** from 2-3:00 PM EST to hear from staff at SVP and Frontier Energy that executed this project.

[Register Now](#)

Help us deliver content you want - Take Our Survey!

As we continue our monthly **Dig Deeper with DEED** segments, we need to hear what topics are most important to you! Tell us what you want to see more of by [clicking here](#).

Heartland Consumer Power District's Solar Calculator

Seeking inspiration to apply for a DEED internship? **Heartland Consumers Power District** used their DEED scholarship award to hire a student intern and develop a solar power calculator for its customers. This [APPA article](#) highlights how the calculator works and its different applications. Learn more about the project on the DEED Project Database, [here](#).

One Week Left to Apply for an Intern!

Put an intern to work at your utility.

Submit your internship application by October 15 to secure \$4,000 in funding to hire an intern

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Apply for student internship funding

The deadline to apply for an intern is next Tuesday, October 15, 2019. If you have a project that is more of the standard system upgrade/normal maintenance activity/capital improvement project, applying for **\$4,000** to put an intern to work can be a good way to receive funding when it is not appropriate for a DEED grant. More information is available [here](#) and in the [DEED Scholarship Guide for Utilities](#).

To get started and gain access to the intern application, email DEED@PublicPower.org.

Lineworker Scholarships

Having trouble recruiting lineworkers and other technical staff? Help us so we can help you. Send DEED your contacts at technical colleges, vocational schools, lineworker schools, and local high schools, and we'll promote public power and DEED scholarship opportunities to their students.

Send us your contact names, school affiliations, titles, and email addresses to DEED@PublicPower.org.

DEED scholarship notifications are sent to schools twice a year.

Dig Deeper with DEED: Workforce

This month we are covering workforce projects. Considering a DEED grant or scholarship involving the future generations of public power staff? Related completed grants and internships include:

- ElectriCities of North Carolina Inc.'s grant, [Power Career Workshop 101](#)
- Nebraska Public Power District's grant, [Pathways to a Technical Future](#)
- City of Hudson Electrical Dept.'s grant, [Barlow Community Center Solar Training Facility](#)
- Memphis Light, Gas & Water's grant, [Development of a Power System Educational Program](#)
- Iowa Association of Municipal Utilities' internship, [Energy Services Intern](#)
- Emerald People's Utility District's internship, [Senior Power Analyst Intern](#)
- Colorado River Commission of Nevada's internship, [Energy Intern](#)

Check out DEED's **current** workforce focused internships as well:

- Kissimmee Utility Authority's [KUA Reginald Hardee Line Worker Internship](#)
- New London Utilities' [Lineman Internship](#)
- Osage Municipal Utilities' [Lineman Internship](#)
- Littleton Electric Light Department's [Electrical Engineer Intern](#)

DEED Scholar Mentioned in Nebraska Media

Josue Campos do Prado was sponsored by Lincoln Electric System for a DEED student research grant to study bidding in electric markets. This project, [Combined Stochastic Wind and Solar Power Bidding in the Southwest Power Pool Market](#), aims to develop a stochastic-optimization-based dynamic model to generate the optimal bidding strategies for wind and solar energy facilities in the electricity market. Local news covered Josue's accomplishments, in an article, [Recipients of Presidential Graduate Fellowships Announced](#).



Josue Campos do Prado, DEED scholar, studying electrical engineering and computer engineering at University of Nebraska - Lincoln.

Recently Completed Projects

One grant wrapped up in the month since our last newsletter. Visit the DEED Project Database for a

repository of hundreds of outstanding research projects funded by DEED. Learn what other public power utilities like yours have done. Discover how you can replicate or improve on the success of projects completed by your peers. Get ideas for your own projects and apply for DEED cofunding with a DEED grant.

G-409 Analytics Using StorageVET

The electric utility industry is changing rapidly with new customers expecting alternatives in how they purchase and use their electricity. Battery energy storage is viewed as a promising technology to help utilities manage changing demands on grid and generation infrastructure. However, utilities and customers today are struggling with understanding and calculating its value and costs. To address this problem, the **New York Power Authority (NYPA)** partnered with the Electric Power Research Institute (EPRI) to provide the tools for understanding and integrating energy storage. The project team also assessed promising storage applications, such as managing increasing demands. The StorageVET tool provides a streamlined process for evaluating the value of energy storage for both utilities and their customers.

DEED will host a webinar on this project on November 6th from 2-3PM. Mark your calendar and keep a look out for the registration link coming soon!

Learn more about the project here: [READ MORE](#)

Austin Energy



According to Austin Energy, the value of battery storage combined with solar does not yet outweigh its costs in the Austin service area. This APPA article, [Storage with solar not yet economic, Austin Energy finds](#), dives into the four-year Austin Sustainable and Holistic Integration of Energy Storage and Solar Photovoltaics, or Austin SHINES project, which is looking at best practices for integrating renewable energy and energy storage onto the grid at several scales.

Sacramento Municipal Power District's DEED EV Blockchain Project



Sacramento Municipal Utility District pursued a DEED grant, *Coordinating EV Charging with Renewable Electricity Generation using Blockchain Incentives*, to offer blockchain-enabled tokens in an effort to encourage EV owners to charge their vehicles at workplaces when local renewables peak during the day. This APPA article, [SMUD official details electric vehicle blockchain project](#), covers the project manager, Denver Hinds', overview at Greentech Media's "Blockchain in Energy Forum 2019" in New York City, where

he discussed goals, strategy, and the current state of the project. This project is starting up now, keep up to date with their quarterly reports on the DEED Project Database [here](#).

Greenville Utilities Commission

Earlier this year Greenville Utilities Commission received a \$125,000 DEED grant to implement a battery energy storage system (BESS) in lieu of traditional reciprocating engine technology for peak shaving applications. Read WNCT 9 coverage of the year long pilot program in the article, [GUC launching pilot project to keep costs down for customers](#). Learn more about the project and follow along with their quarterly updates on the DEED Project Database [here](#).

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