

October 2020 EDITION



Celebrate 40 Years of R&D!

The graphic is a promotional poster for DEED Public Power Research & Development. It features a dark blue background with a repeating pattern of the text "WPPI ENERGY • STOUGHTON UTILITIES • WPPI ENERGY" in a lighter blue, semi-transparent font. On the left, the DEED logo is shown, consisting of a stylized "n" inside a square, followed by the text "DEED PUBLIC POWER RESEARCH & DEVELOPMENT 40 YEARS OF INNOVATION". Below this, the title "Enhancing Learning Environments with Tunable Lighting" is written in a large, white, sans-serif font. Underneath the title, a paragraph in white text reads: "Log into the DEED Project Database for details on this and nearly 800 other industry-changing projects DEED has funded." On the right side, there are two line graphs showing light spectra. The top graph is labeled "Tunable" and shows a broad spectrum of light with a peak in the blue region. The bottom graph is labeled "Fluorescent" and shows a spectrum with several sharp peaks, including a prominent one in the blue region. Below the graphs, the text "IMPACTING THE INDUSTRY SINCE 2016" is written in a white, sans-serif font.

Celebrating 40 Years of DEED Innovation: Enhancing Learning Environments with Tunable Lighting

Through a DEED grant, WPPI Energy and Stoughton Utilities retrofitted light fixtures in classrooms at two different schools with tunable lightbulbs. Using different hue colors and spectrums, teachers reported the ability to positively impact students' levels of concentration and reduce behavioral issues.

DEED members can log in to the [DEED Project Database](#) for project details. Not a DEED member? Contact [Michele Suddleson](#) at 202-467-2960.

Take the DEED Membership Survey- Deadline extended to November 5!

The American Public Power Association began its Demonstration of Energy & Efficiency Developments program 40 years ago. DEED is public power's national research program and is dedicated to improving the operations and services of public power utilities by supporting and demonstrating its members' innovative ideas through research, funding, and education. We need your help to ensure the program is providing the

greatest benefits and member care possible to its members. Please take advantage of this opportunity to contribute to the evolution of the DEED program by providing feedback on what's working, what's not, and how we can best serve you and your utility.

The survey should take fewer than 5 minutes to complete. [Click here to take the 2020 DEED Membership Survey now.](#)

APPA/DOE Cybersecurity Cooperation

The Department of Energy's (DOE) Office of Cybersecurity, Energy Security, and Emergency Response (CESER) has [announced cooperative agreements totaling \\$12 million](#) over a three-year period to develop and deploy cyber and cyber-physical solutions for distribution and municipal utilities. Funding for this congressionally directed initiative will be split between APPA and NRECA. Stay tuned for more information.

As a reminder, our earlier round of cybersecurity program funding from DOE came to an end on September 30. All of the guidance documents that have been developed are still available for download at [PublicPower.org](#). We hope that all members will continue to use these resources to further enhance their cybersecurity programs.

2021 Grant Applications OPEN November 1



Could you use up to \$125,000 to help solve a challenge at your utility? Start working on your application now—our spring grant application cycle opens on November 1 and the deadline is February 15, 2021. DEED members use grants to improve utilities by increasing efficiency, reducing costs, investigating new technologies, offering new services, and improving processes and practices to better serve customers. Learn more about DEED funding [here](#) and get application tips from the [Utility Guide for Project Funding](#).

The next round of internship applications opens on December 1. Mark your calendar to submit an application to put an intern to work at your utility by February 15, 2021.

Please email DEED@publicpower.org if you do not already have login information to the grant [management site](#) where you can begin your application.

Register Now: Upcoming Webinars

[Community Solar Collaborative Meeting](#)

In this working group meeting, DEED members and National Community Solar Partnership staff will collaborate to identify assistance needed by public power communities that are planning and developing community solar projects and programs. You will hear how technical staff at the Department of Energy and its national labs have solved problems and roadblocks faced by communities across the country. Please come prepared to share your needs as you look to develop a solar program in your community. The feedback we receive in this meeting will be used to develop a technical assistance and training plan that we will share in the coming month.

Speakers:

- Alex Hofmann, American Public Power Association
- Joy Ditto, American Public Power Association
- Kyle Fricker, Department of Energy
- Joyce McLaren, National Renewable Energy Laboratory

**Please join us at 2:00 - 3:30 PM EST on
Wednesday November 18.**

Register now!

[New, Energy Efficient Cooling System's Use of Recycled Water is a Win-Win for Utilities and Customers](#)

The amount of energy required to cool facilities can be extremely costly and often results in blackouts during periods of peak demand. Burbank Water & Power tested a new system to reduce energy usage, water usage, and costs for both the utility and their customers. Learn about the results of their pilot test with an indirect evaporative cooling system in this webinar. Don't miss this opportunity to learn how you can replicate these cost, energy and water savings at your utility or key account customers.

This technology is especially suited for large spaces that need conditioning such as warehouses, big box retail buildings, data centers, car dealerships and garages, gyms, and classrooms, as well as areas that require ventilation. We highly recommend this webinar to anyone interested in sustainable energy practices or water conservation and utilities looking for cost-effective, energy efficient alternatives for cooling large, open spaces

Speaker: Asif Sheikh, Burbank Water & Power

**Please join us at 2:00 - 3:00 PM EST on
Thursday, November 19.**

Register now!

2021 EIA and ACE Nominations Open Now!



Show off your innovative projects or your utility's commitment to R&D by submitting a nomination for a DEED Award. Join a select group of DEED members who have been rewarded with an [Award of Continued Excellence](#) or [Energy Innovator Award](#) over the last 40 years.

Learn more about the awards and past winners on the [ACE and EIA information page](#). Applications for the [ACE](#) and [EIA](#) are due on January 31, 2021. Questions? Contact DEED at (202) 467-2942 or

DEED Grants Approved at Fall Board Meeting

On October 1 and 2, the DEED Board of Directors convened (virtually) for their fall board meeting to vote on a new round of grants. A list of the 12 newly approved grant projects is provided below. A list of the newly approved scholarships will be in the December issue of the DEED Digest.

- \$125,000.00 was approved for California Municipal Utilities Association's project, *Optimal Integration of Energy Recovery Turbines for Renewable Energy Production in Water Utilities*
- \$45,520.30 was approved for Conway Corp's project, *Pilot Project for Photovoltaic Net Metering Power Quality*
- \$46,258.95 was approved for Energy Northwest's project, *Public Power Internship Program*
- \$97,329.00 was approved for Imperial Irrigation District's project, *IID's Smart Thermostats for Residents in Desert Environments (STRIDE) Project*
- \$125,000.00 was approved for Logan City Light & Power's project, *Battery Storage Demonstration Platform*
- \$50,000.00 was approved for Nebraska Public Power District's project, *Heat Pump Water Heater Rental - Pilot Project*
- \$125,000.00 was approved for New York Power Authority's project, *Smart Insulation Condition Monitoring System for Substation Assets*
- \$125,000.00 was approved for New York Power Authority's project, *Analyze the Impact of Ice on Hydro Power Resources with Machine Learning*
- \$48,450.00 was approved for Northern California Power Agency's project, *Green Hydrogen Electrolyzer Feasibility Study - Supporting Clean Energy Investment (NCPA)*
- \$125,000.00 was approved for Pasadena Water & Power's project, *Distribution Battery Project*
- \$125,000.00 was approved for Tacoma Power's project, *Getting into Hot Water: Bringing Central Heat Pump Water Heaters to Multifamily Buildings*
- \$27,814.00 was approved for WPPI Energy, Joint Action Agency's project, *A Systematic Process for Small Utilities to Promote and Maximize Opportunities within DEED*



The fall meeting also marked the end of Allen Johnson's six-year term as a DEED Board Director. For the last several years, he served on the board's

executive committee and provided valuable leadership and insight to the program. We are extremely grateful for the time, service, and good spirits he brought to the board. We feel confident that he will excel in his new role as DEED Ambassador, a role all DEED Board directors graduate to after their six years of service to DEED. Thank you so much, Allen!



Public Power Publicity

Kudos to ElectriCities of NC on sharing the good news about public power lineworker careers in the communities they support! See the following LinkedIn screenshot, which is also a great example of how you can help us boost publicity of DEED scholarships.



ElectriCities of NC
1,960 followers
1w • 

[+ Follow](#) 

A lineworker career is lucrative: students can graduate from high school and be working in their communities within a year! Join us in spreading the word about the APPA DEED Lineworker Scholarship and partnering NC Public Power Lineworker Scholarship – our way to fast-track students' careers and expand resources so that they can keep their eyes on the goal — [#KeepingTheLightsOn](#) in our public power communities.

[#NCPublicPower](#) communities can sponsor a student today and encourage them to apply at <https://lnkd.in/gH7eXzv> by October 5.

For questions and more information, contact us!

DEED Webinar Spotlight



[How to Write a Stellar DEED Grant Application Incorporating Research Design](#)

It's a great time to get some tips on how to submit the best application possible. In this webinar, you'll hear directly from DEED directors Liz Jambor and Rachel Huang on how to identify research considerations that should be incorporated into a successful project. They have years of experience developing research projects and evaluating DEED applications- their insight is invaluable.

Recently Completed Educational Scholarships



PJ Bundy-Wurtz
University of Wisconsin- Stout
[Final Report](#)



Kyle Haas
University of California-
Berkeley
[Final Report](#)



Ayden Salazar
University of California-
Berkeley
[Final Report](#)

Recently Completed Project

[G-419: Demonstration Project to Achieve Cost Effective Reliability Improvement Using Single Phase Reclosers](#)

Several Florida Municipal Power Agency member cities used a DEED grant to investigate the reliability benefits of single-phase reclosers. Although reclosers reduce both sustained and momentary outages, many cities face barriers such as a lack of internal staff to lead a reliability initiative, lack of engineering support to analyze their network and select recloser locations, and a perceived high cost. [Read about their findings in the DEED Project Database.](#) This project will be of particular interest to utilities looking for cost-effective solutions to reliability issues.

Contact

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