GRID DEPLOYMENT OFFICE

FACT SHEET

GRID RESILIENCE AND INNOVATION PARTNERSHIPS PROGRAM

Established by the Bipartisan Infrastructure Law, the U.S. Department of Energy's Grid Deployment Office is administering a historic $10.5 billion investment via the Grid Resilience and Innovation Partnerships (GRIP) program to enhance grid flexibility, improve the resilience of the power system against growing threats of extreme weather and climate change, and ensure American communities have access to affordable, reliable, clean electricity when and where they need it.

IMPROVING GRID RESILIENCE AND OPERATIONS IN ROCKFORD, ILLINOIS

Through their Interoperable Control Framework (ICF) project, the Commonwealth Edison Company will deploy a selection of technologies for field demonstration and develop advanced communications and data analysis technologies to address enhanced coordination among innovative grid enhancements. This architecture will allow for the optimization and automation of various grid resources, including distributed energy resources (DERs), electric vehicle (EV) charging infrastructure, grid-interactive efficient buildings (GEBs), and intelligent sensors. Adopting an intelligent control framework will enhance grid planning and operation while aggregating and integrating DERs for grid benefit.

Anticipated Outcomes and Benefits

- Deploys technologies to decentralize and strengthen the electrical grid, providing customers and the utility with enhanced data to inform system-wide decision making and strategic planning.
- Promotes greater customer awareness and control over their energy usage.
- Uses innovative technologies and strategies for energy resilience and clean energy adoption while also developing protocols and sharing best practices for integrating these technologies into electrical grids elsewhere.
- Includes 22 different tools to evaluate the success of the system, efficiency, and resilience of the electrical system. These technical tools include virtual power plants, energy optimization, DER discovery, distribution state estimation, and renewable enabled local system restoration.
- Project location selected to maximize benefits that will flow to equity investment eligible communities (EIECs).
- Supports union jobs through Collective Bargaining Agreement with International Brotherhood of Electrical Workers (IBEW) Local 15 and other unions.
- Offers a 12-week paid workforce readiness program for 17- to 19-year-old students that focuses on providing hands-on experiences to educate students on careers and skills required within the utility industry and removes barriers to union jobs.
- Commits to working with a variety of local institutions to increase high-quality job creation, the clean energy job pipeline, and job training.
- Commits to engage communities multiple times annually with an emphasis on ensuring representation of EIECs.
- Commits to recruiting and retaining talent from underrepresented groups and an inclusive work environment for its project teams.
- Enables community partners to have easier, quicker, and cheaper access to clean energy through the technologies developed in this project.

PROJECT DETAILS

- **Project:** Deployment of a Community-Oriented Interoperable Control Framework for Aggregating and Integrating Distributed Energy Resources and Other Grid-Edge Devices
- **Applicant/Selectee:** Commonwealth Edison Company
- **GRIP Program:** Smart Grid Grants (Bipartisan Infrastructure Law, Section 40107)
- **Federal cost share:** $50,000,000
- **Recipient cost share:** $66,000,000
- **Project Location:** Rockford, Illinois
- **Project type:** Visibility and Control

HELPFUL LINKS

- Grid Resilience and Innovation Partnerships Program
- About the Grid Deployment Office

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