

**KREATYWNY ENERGY POLSKA**

# **Community Smart Microgrid Software**



## Overview

---

In 2016, the Department of Energy (DOE) awarded ComEd a \$4 million grant to develop technology for integrating solar PV and energy storage within a microgrid. ComEd created the first utility-owned microgrid cluster out of its culture of innovation. Unlike traditional power grids, these neighborhood-scale energy. The HOMER Pro® microgrid software by UL Solutions is the global standard for optimizing microgrid design in all sectors, from village power and island utilities to grid-connected campuses and military bases. Intended for use in the early stages of the design process, MDT uses powerful search algorithms to identify and characterize. What is a Community Microgrid?

A Community Microgrid is a coordinated local grid area served by one or more distribution substations and supported by high penetrations of local renewables and other distributed energy resources (DER), such as energy storage and demand response. This powerful but usable automation tool enables fully automated minigrid interventions in.

## Community Smart Microgrid Software



### Microgrid Design Toolkit

Sandia National Laboratories developed the Microgrid Design Toolkit (MDT), a decision support software for microgrid designers that is publicly available for download.

### Smart Community Microgrids: The Future of Neighborhood Power is ...

Community microgrids represent a groundbreaking shift in how neighborhoods power their homes and businesses, combining local renewable energy sources with smart distribution systems to ...



### ESS



### SmarterMicrogrid

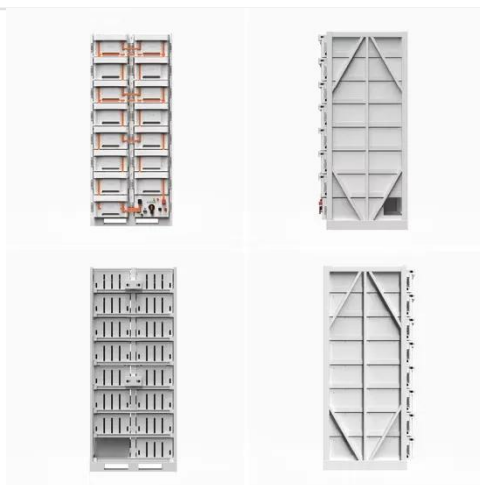
Over the last five years we have implemented a Smart Microgrid Controller for our own in house use. Our aspiration now is to find early adopter customers and go to market partners to provide real-world ...

### A smart platform (BEVPro) for

## modeling, evaluating, and optimizing

In this study, a novel open-sourced simulating platform, BEVPro, was proposed to easily and accurately model and evaluate building-EV networks integrating buildings, REs, onsite electric

...



## Open-Source Smart Grid Systems: Rethinking Energy Distribution for

...

The need for more adaptable, decentralized, and efficient energy distribution is clear. Open-source smart grid technology offers a solution that is scalable, flexible, and community-driven.

## Community Microgrids

The Clean Coalition's Community Microgrid Initiative will provide a standard methodology that any community can use to optimize and streamline the deployment of local renewable energy.



## Community-Owned Smart Grid Microgrids for Resilience

A community-owned microgrid functions as a socio-technical system where participatory governance is as vital as

the technological infrastructure for ensuring equitable energy resilience. ...



---

## ComEd Bronzeville

In 2016, the Department of Energy (DOE) awarded ComEd a \$4 million grant to develop technology for integrating solar PV and energy storage within a microgrid. The result is the powerful new software ...



---

## Community Microgrids

In this study, a novel open-sourced simulating platform, BEVPro, was proposed to easily and accurately model and evaluate building-EV networks integrating buildings, REs, onsite electric ...

---

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://www.kreatywny-dom.pl>

