Digitizing Utilities Prize

AMERICAN MADE

U.S. DEPARTMENT OF ENERGY

The American-Made program is your **fast track to the clean energy revolution**. Funded by the U.S. Department of Energy, we incentivize innovation through prizes, training, teaming, and mentoring, connecting the nation's entrepreneurs and innovators to America's national labs and the private sector.

supercharge

A REVOLUTION OF **BOLD IDEAS**

Fast track your ideas for the clean energy revolution

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$100M
in cash prizes
and support

30+
prizes

300
Network
members

Digitizing Utilities Prize

Connect utilities with interdisciplinary teams of software developers and data experts to facilitate transforming digital systems in the energy sector and data analytics for utilities.

Prize Structure

Phase 1: **Plan**

Form teams and propose a solution for one of the utility issues presented.

Up to nine winners of Phase 1 will receive a cash prize of **$75,000.**

Phase 2: **Progress**

Develop your proposed solution and demonstrate how this method and process could be utilized by other utilities in the future.

Up to four winners of Phase 2 will receive a portion of the **$425,000** total cash prize pool.

Prize Tracks

Track1 – Load Modeling

(Bonneville Power Administration)

Competitors will use load modeling to help correctly forecast future power demands, specifically addressing the dynamic nature of weather-sensitive loads for residential and commercial buildings.

Track 2 – Data Analysis Automation

(Dominion Energy)

Competitors will propose methods for automation of data analysis to help engineers scrutinize and evaluate a data-driven approach to resolving nuanced complexities across the system.

Track 3 – Competitor-Identified Challenge

Teams with an existing utility partner may apply with their own digitization or data challenge and proposed solution. Eligible topics are outlined in the official prize rules.

Track 2 – Phase 1 Winners

- Siemens & Southern Methodist University
  - Applied machine learning to enrich large datasets with embeddings that enable comparison of patterns in time and space
- Grid Protection Alliance (GPA) and Rensselaer Polytechnic Institute (RPI)
  - Developed data analytics for asset diagnostics and performance evaluation
- Automatility
  - Developed a modular, platform-agnostic systems integrator focused on utility needs for data integrity, transformation, visualization, historical analysis, and alarm thresholding

Thank You

AMERICAN MADE SOLAR PRIZE

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