SiDSys by Element 29: Pioneering Clean Water and Energy Solutions

Introduction

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Mission: Addressing the pressing needs of underserved communities through innovative water distribution and clean energy solutions.

The Challenge

- Severe depletion of US aquifers, especially in disadvantaged, underserved communities.
- Need for sustainable, equitable access to clean water and energy.

Our Solution: SiDSys

- Technology: Stand-Alone Independent Distribution System (SiDSys), powered by solar energy, enhancing water accessibility while providing electrical grid resilience.
- Impact: Decreases energy burden, improves environmental health, and boosts clean energy access in disadvantaged communities (DACs).

Strategic Partnerships

• Collaborating with Mustard Seed Communities, LG Water Solutions, and AquaClara Reach for tailored, scalable solutions.

DOE's Policy Priorities Alignment

• Directly advances <u>all eight DOE's</u> policy priorities for Justice40 Initiative implementation, from decreasing energy burden to increasing energy democracy in DACs.

Engagement Plan

• Phase II (Engage): Partnering with communities and local organizations to align SiDSys with community needs through workshops, training, and pilot deployments.

