



Energy Transformation

Promising innovative mini-grid technologies

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U.S. Department of State

IRENA Off-Grid Renewable Energy Conference

September 30, 2016

Bureau of Energy Resources

Energy Diplomacy

- Managing the geopolitics of the energy economy through reinvigorated energy diplomacy with major energy producers and consumers

Energy Transformation

- Stimulate markets that will sustain transformational energy policies in terms of alternative & renewable energy sources, electricity, development, and reconstruction

Energy Transparency and Access

- Increase transparency and improve commercially viable and environmentally sustainable energy services



United States Department of State

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Silicon Valley Tech Challenge: *Accelerating Access to Clean Energy Around the World*

September 8, 2016

University of California, at Berkeley

For further information, email: Energytechchallenge@state.gov

A **Workshop** hosted by



U.S. Department of State



UC Berkeley

Silicon Valley Tech Challenge:

Accelerating Access to Clean Energy Around the World

Six Technology Challenges

- Battery storage
- Metering, monitoring, and common standards
- Super-efficient productive use appliances
- Business models for solar home and mini-grid systems
- Off-the-shelf and open-source technology to facilitate energy entrepreneurship
- Driving demand and awareness

Tech Ideas & Solutions

Examples of the 12 Ideas Generated

- **M-Cell:** *standardized, modular battery “cell”*
- **Effe-pay:** *software solution for super-efficient appliance vendors*
- **M-Kiosk:** *smartphone accounting system for efficient-appliance retailers*
- **Project Omega:** *Standardizing metering & monitoring*
- **Farmer-Friendly Solutions for Food Storage & Distribution**
- **Solar Roadshow:** *bringing info to customers about products & services*

Action Partners

Microsoft	Bloomberg New Energy Finance
X (formerly GoogleX)	DBL Partners
Facebook	Allotrope Partners
Orange Silicon Valley	Factor[E] Ventures
Booz Allen Hamilton	Galvanize
IdeaScale	Powerhouse
Singularity University	Afriji
<u>UC Berkeley's:</u>	Blum Center for Developing Economies
Sutardja Center for Entrepreneurship & Technology	Haas School of Business

THANK YOU!

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