



Item 12: BRIDGE 2024: Bringing Rapid Innovation Development to Green Energy – GFO-23-318

October 8, 2025 Business Meeting

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Technology Innovation and Entrepreneurship Branch



Overview

Benefits California by accelerating development and deployment of clean energy technologies

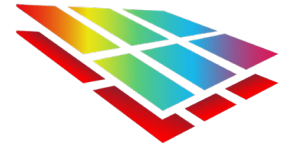
- Applied Research & Development or Technology Demonstration and Deployment
- Funds promising clean energy technology development with previous public & private funding
- Cross-sector/multi-tech solicitation
- Match funding waiver for demonstration in DACs
- Two previous rounds of BRIDGE
 - 21 companies
 - \$750M in private follow-on funding
 - >1500 employees



Image Source: Google stock photo



Tandem PV, Inc.



TANDEM PV

Perovskite/silicon tandem panels for utility-scale solar

- 30% more efficient than standard silicon panels
- Up to 40% lower cost of electricity due to decreased land area, permitting, labor, etc.
- Workforce development and manufacturing jobs in CA

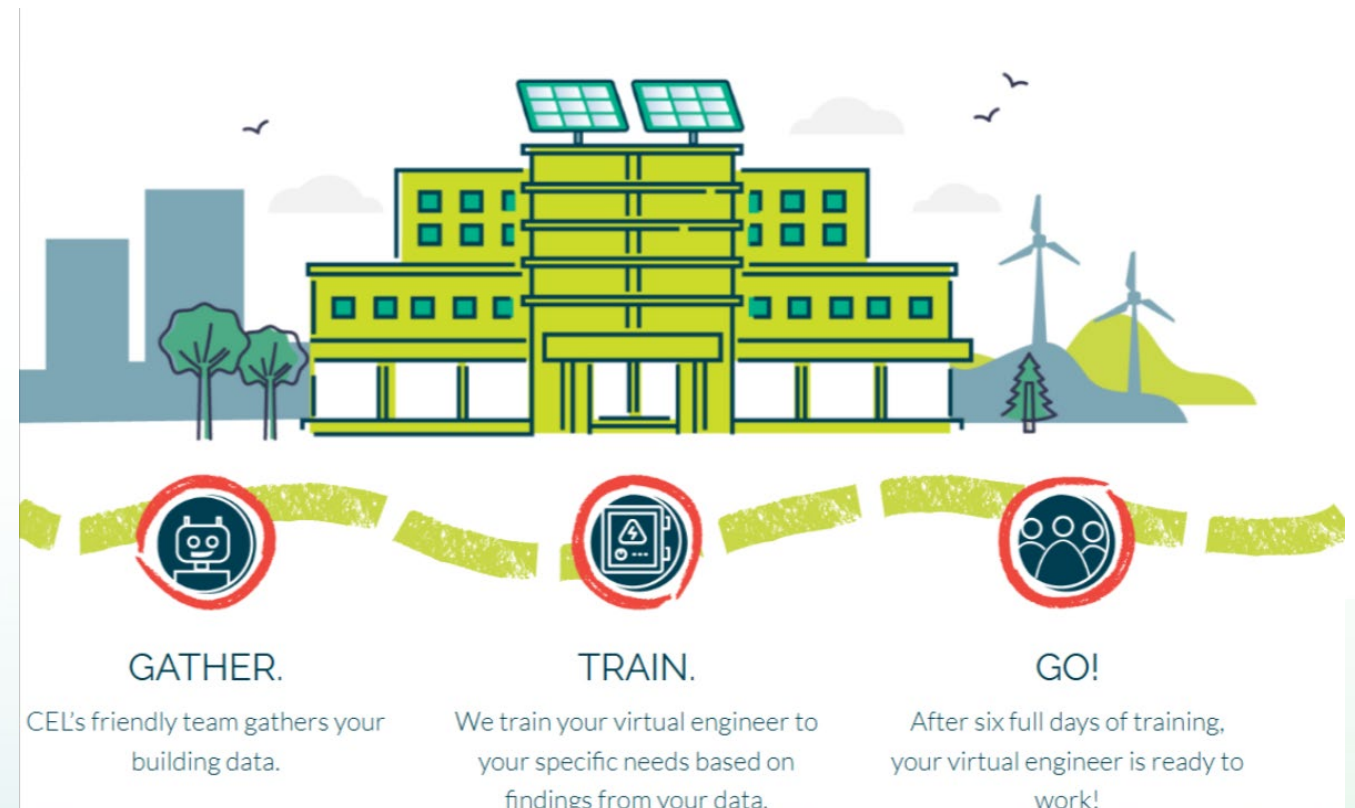


Source: Tandem PV, Inc.



Energy Management System for small-medium commercial buildings

- Quick (< 1 day vs. 1 month+) and low-cost (< \$20k vs. \$250k+) installation
- Easy operation: uses thermal models and responds to building and grid signals
- Improves comfort while reducing overall and peak demand, utility bills, and GHG emissions



Cryo-compressed hydrogen distribution platform for EV charging and backup power



Source: Verne Inc.

- Lower cost of delivered hydrogen
- Provide hydrogen for use cases where grid power is not currently available
- Avoid GHG and criteria air pollutant emissions from diesel-powered equipment



Tyfast Energy Corp.

TYFAST

High-performance battery pack for off-highway electric vehicles

- Fast charging, high power, long cycle life, wide operating temperature range
- Domestically sourced materials
- Low total cost of ownership



Tyfast novel and domestic
 $\text{Li}_3\text{V}_2\text{O}_5$ (LVO) anode

Source: Tyfast Energy Corp.



Indian Energy LLC



INDIAN ENERGY LLC

Integrated microgrid and building orchestration and optimization system

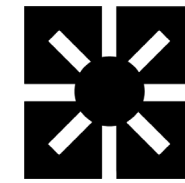
- Extend critical services operation by 2-4 hours
- Reduce fossil fuel generator use by 30%
- Improve energy access, affordability, and reliability for rural and tribal communities



Source: Indian Energy LLC



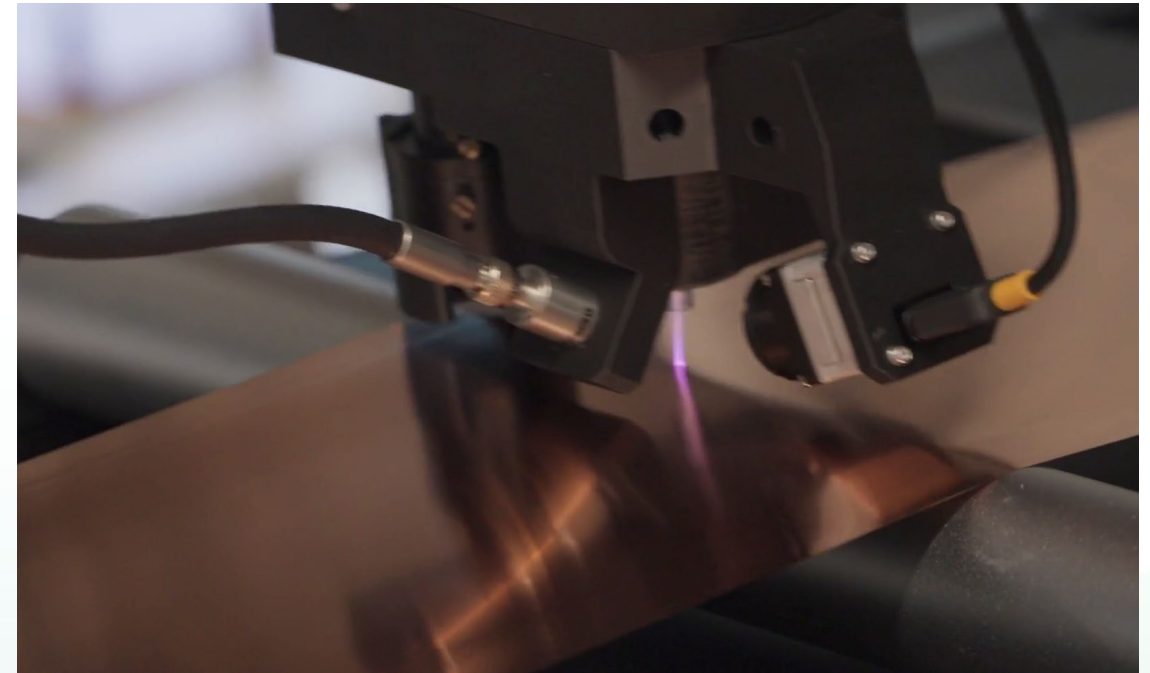
SirenOpt Inc.



SirenOpt

Plasma-based inline electrode inspection tool

- Improve battery safety
- Reduce battery costs
- Facilitate next-generation battery development and manufacturing in CA



Source: SirenOpt, Inc.



SolarAPP Foundation



Automated permitting and plan review for residential EV charging & virtual inspections for solar installations

- Improve permitting efficiency
- Consistent code compliance
- Accelerate residential solar and EV charging installation, with emphasis on affordability and deployment in DACs





Coreshell Technologies Incorporated



Advanced batteries for EVs and small-electric mobility

- Cheaper (33%), safer (thermal improvements), longer-range (300+ miles) batteries
- Domestically sourced materials
- Workforce development in disadvantaged community



Source: Coreshell Technologies



Benefit to Californians

- **Provides ratepayer benefits**
 - Affordability
 - Safety
 - Reliability
- **Advances clean energy economy**
 - Supports entrepreneurs
 - Increases skilled labor opportunities
- **Accelerates California's clean energy goals**



Source: Google stock photo



Staff Recommendation

- Approve eight (8) new BRIDGE grant agreements.
- Adopt staff's recommendation that projects are exempt from CEQA.