

# California Energy Product Evaluation (Cal-EPE) Hub

Theresa Pistochini

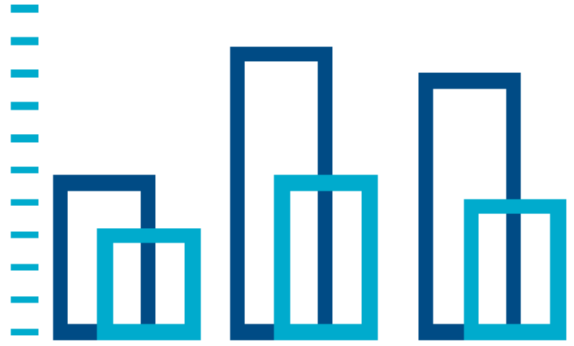
Engineering Manager

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# Cal-EPE Hub Basics

- » Goal: Support large commercial and institutional customers with formal procurement processes to choose clean technologies with confidence
- » Sponsor: California Energy Commission EPIC Program (\$11mil)

# Cal-EPE Hub Objectives



» **Evaluate market-ready technologies at early adoption phase:** Selected energy efficiency, renewable distributed energy generation and energy storage products will be evaluated at Hub test facilities.

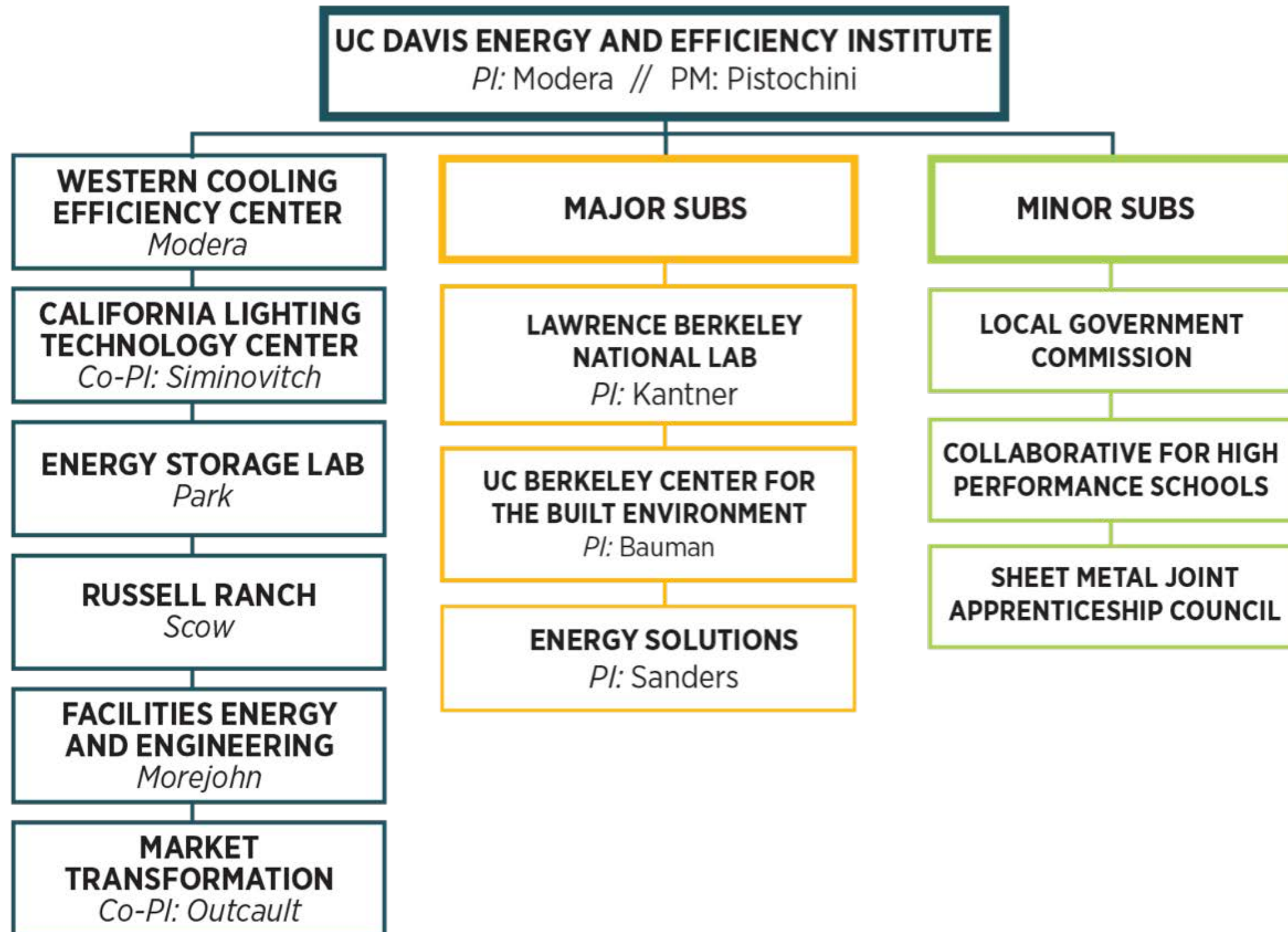


» **Create a Buyers' guide:** Comprehensive evaluation results will be compiled to allow 'apples-to-apples' comparisons of similar products, and comparisons to existing government and industry standards.



» **Disseminate information:** The Buyers' guide will be made available to commercial and institutional procurement officers through a public web platform.

# Project Team



## *Additional Partners and Supporters*

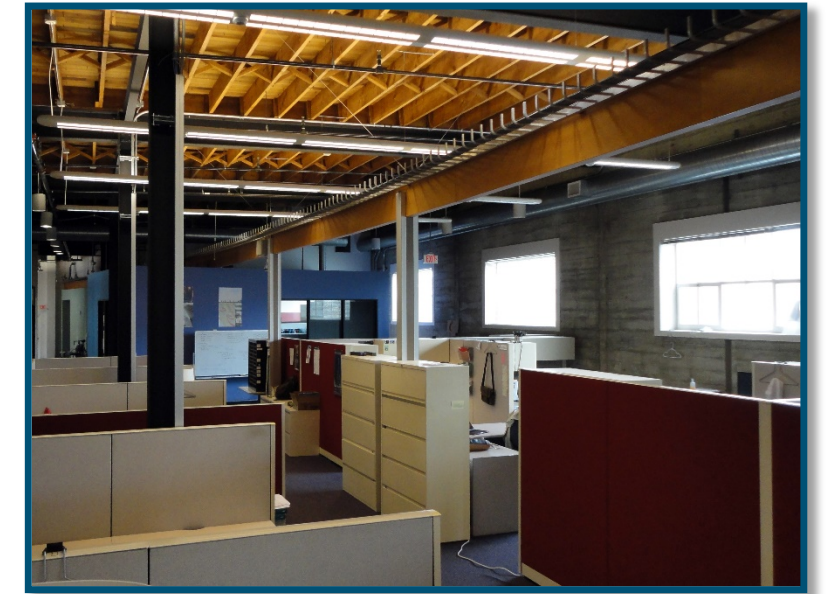
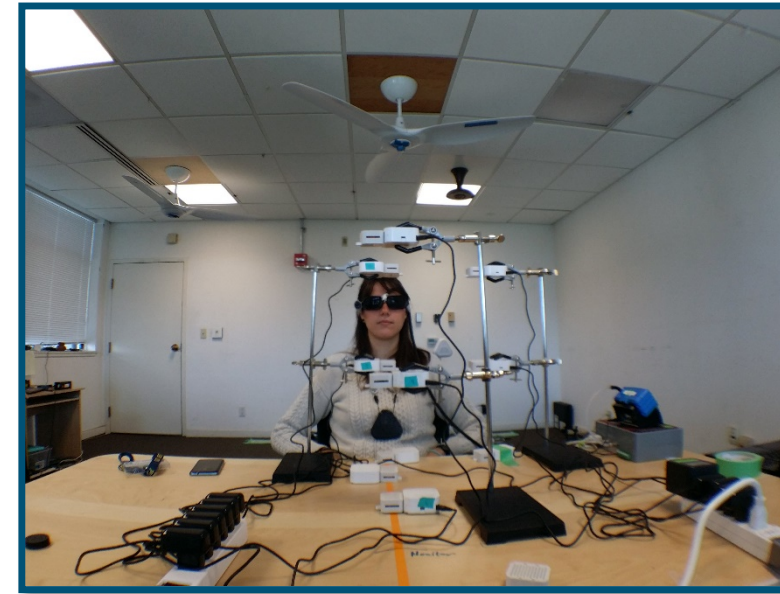
- » Southern California Edison (match funding)
- » University of California Office of the President
- » California League of Food Producers
- » Port of Long Beach
- » Walmart
- » Whole Foods
- » US General Services Administration
- » Ecomedes
- » IBEW-NECA

# Product Testing - Facilities

## » UC Davis EEI Affiliated Research Centers



## » UC Berkeley Center for Built Environment



## » Lawrence Berkeley National Lab



## » Sheet Metal Workers Joint Apprenticeship Council



# Target Products

- » Electric Space Conditioning and Ventilation
- » Heat Pump Water Heating
- » Lighting Applications
- » Fenestration Products
- » Distributed PV and Energy Storage
- » Energy Management and Information Systems
- » Energy and Water Saving Agricultural Irrigation Systems
- » Plug-load technologies
- » Commercial Refrigeration

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User Needs



Energy and  
Greenhouse Gas  
Impact



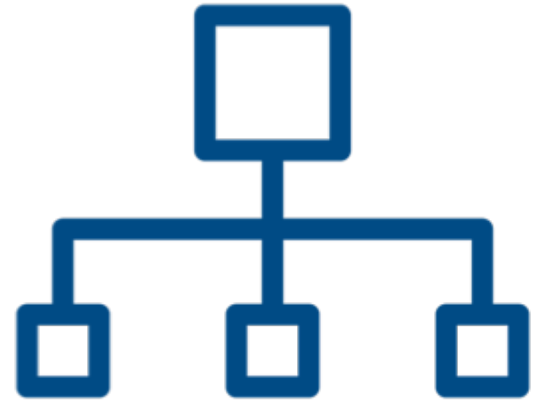
Evaluation  
Feasibility  
and Cost

# Assessing Hub User Needs

- » Identify potential Hub users
- » Interview key representatives of user groups (e.g. industry consortia/associations)
- » Survey potential users to identify:
  - Product categories for which they want information
  - Product categories they would actually buy
  - Specific types of information they need from the Hub
- » Analyze data to identify product categories with most potential for user value and uptake



# Product Testing - Process



Gathering  
Existing Data



Collect New  
Lab Data



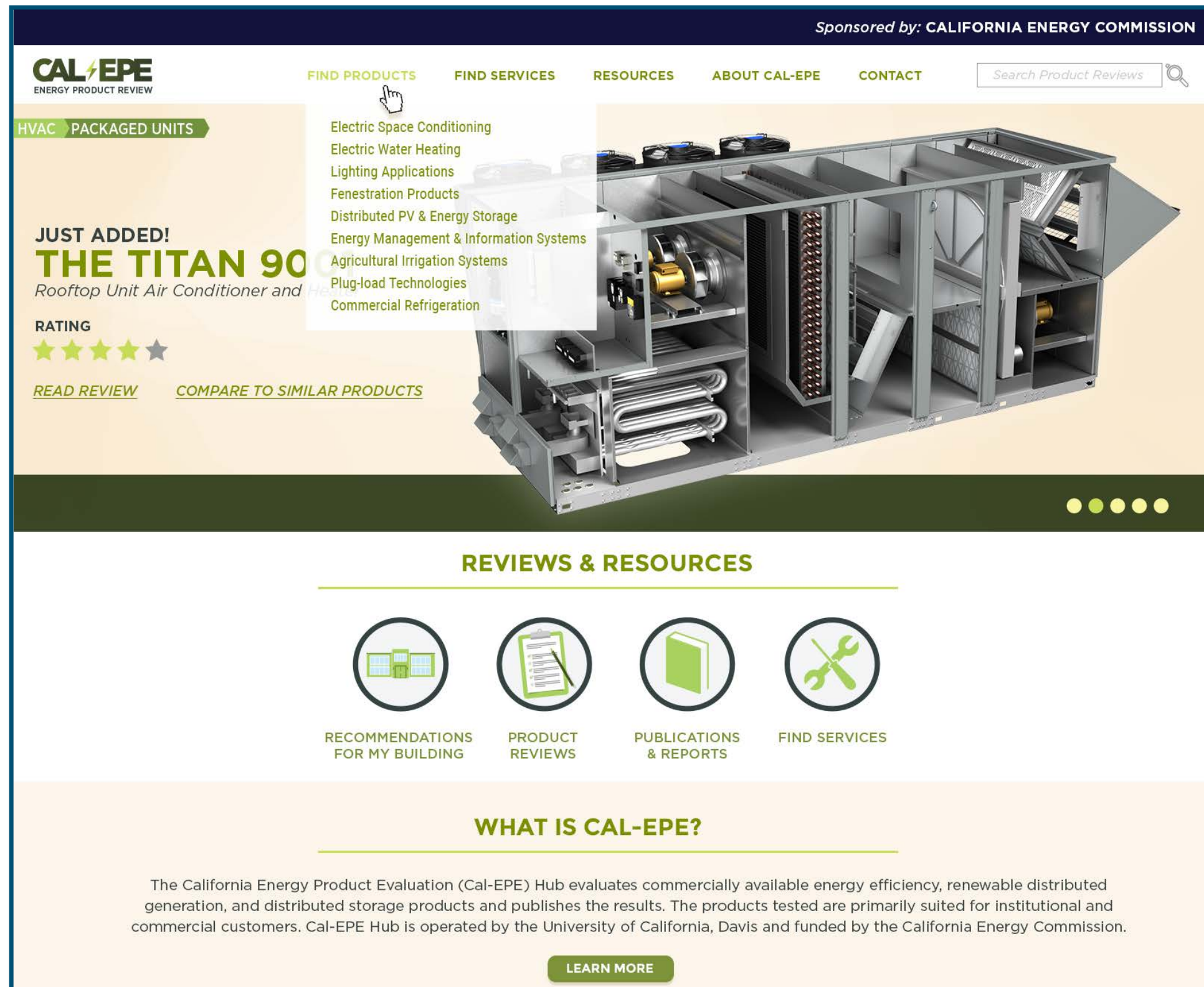
Collect New Field  
Data (if needed)



Survey and  
Interview  
Product Users

Analyze data, publish product evaluations and final evaluation procedures

# Dissemination Vision



- » Open access during grant period, log-in required
- » Side-by-side comparisons
- » Download links to supporting data and methodologies
- » Publish test requirements for adding additional products to the guide
- » Plan for sustainability post 5-year grant

# Questions?

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