# **New Project**

2016 Building Technologies Office Peer Review



## **Project Summary**

#### Timeline:

Start date: July 2015

Planned end date: July 2017

#### **Key Milestones**

1. RFI Release, September 2015

 Define demonstration opportunities, January 2016

3. Launch matchmaking campaign, January 2016

## **Budget**:

### Total Project \$ to Date:

• DOE: \$28,000

Cost Share: \$33,000

### **Total Project \$:**

• DOE: \$417,119

Cost Share: \$520,000

#### **Key Partners**:

LA Cleantech Incubator

LA Better Buildings Challenge

LA Department of Water & Power

Southern California Gas

#### **Project Outcome**:

The intended outcome of the project is to accelerate market adoption of best-in-class building technologies, and to create an "on-ramp" for emerging technologies to enter the market.



## **Purpose and Objectives**

**Problem Statement**: Technology is advancing rapidly, investment brings risk, and property owners and managers are extremely busy – together these factors slow the market's adoption of best-in-class technologies.

**Target Market and Audience**: SoCal Edge currently targets Commercial buildings in the City of Los Angeles, which account for 12.8 million megawatt-hours of energy consumption (50%). The audience is property managers and owners with large real estate portfolios, who will be able to scale successful pilots.

#### **Impact of Project:**

- Outputs:
  - 5 completed pilot projects, with 2 scaling up to multiple sites
  - Emerging Technologies "Onramp" process
- Near-term outcomes Qualified Products List for LED Lighting
- Intermediate outcomes Emerging Technology Onramp
- Long-term outcomes Expand regionally, demonstrate emerging technologies across larger markets and in more sectors



## **Approach**

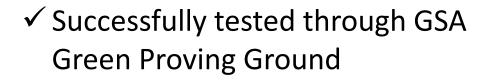
### Approach:

- Identify best-in-class technologies through RFI processes
  - Leverage Green Proving Ground testing and research
  - Leverage DOE performance specifications
  - Engage utility partners
- Negotiate demonstration opportunities, metrics for success that can lead to scaled up portfolio implementation
- Market technologies to LABBC owner/manager partner base
- Provide free Technical Assistance
- In parallel, work with utility partners to develop emerging technology "on-ramp"
- Develop M&V process for emerging tech projects











✓ High-impact, Meet DOE Performance Specification



✓ LACI Portfolio Companies

✓ Water Saving Technologies



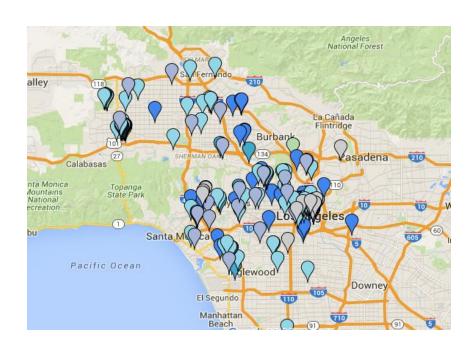
### **Approach**

### **Key Issues:**

- Lack of objective standards / specifications
- Lack of time to survey, select and test technologies

#### **Distinctive Characteristics:**

- LACI campus & capabilities
- LABBC partnership base
- Technical Advisory support
- Utility engagement





## **Progress and Accomplishments**

#### **Accomplishments**:

- RFI processes complete
- Technology demonstration opportunities complete (first round)
- Outreach in process (70M+ square footage in LABBC program)
- Initial demonstration opportunities in process

#### **Market Impact**:

- As this is a new project, there are no quantitative results to report at this point.
- Outreach efforts are underway to develop projects and accelerate impact, focusing on large portfolios
- The project is currently on track, with the first demonstration projected to begin in July at the latest

**Awards/Recognition**: None yet.

**Lessons Learned**: Pilots for proven technologies should be focused on direct cost savings and ROI, M&V less needed for proven tech, real issue for emerging tech



### **Partners & Collaborators**











## **SoCal Edge First Movers**

















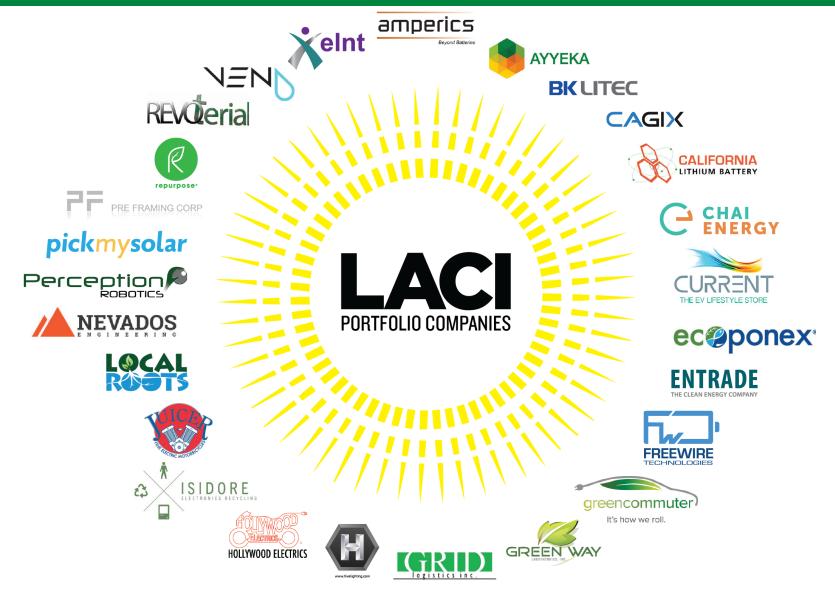




RedCar Properties LTD



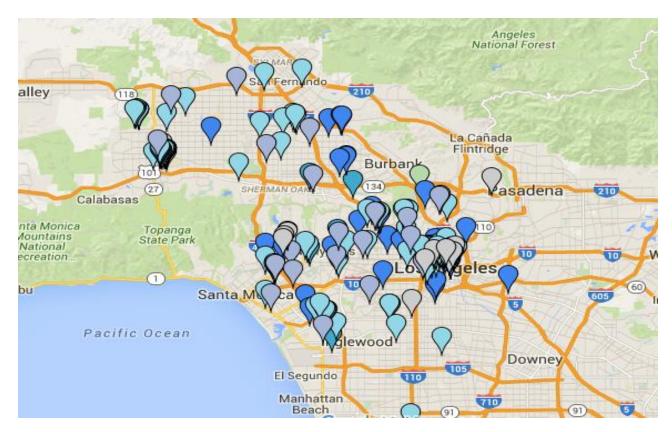
### **Partners & Collaborators**





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## **Project Integration and Collaboration**

### **Project Integration:**

- LABBC conducts outreach, provides project development support
- LACI conducts outreach, refers owners/manager to LABBC
- LACI develops built environment cluster in collaboration with utilities, creates emerging tech on-ramp
- Utility partners fund outreach efforts, define technologies of interest



### **Communications**



2016 Building Technology Showcase scheduled for 8/26/16



## **Next Steps and Future Plans**

### **Next Steps and Future Plans:**

- Ongoing outreach to owners & managers
- Case studies on completed projects
- Finalization of Qualified Products List with DOE Lighting Facts

#### **Potential Additional Tasks**

- Bring additional technologies in to the program
- Support additional demonstration project types (energy storage, EV)
- Expand throughout Southern CA



# REFERENCE SLIDES



## **Project Budget**

**Project Budget**: The project is within budget, and on schedule.

**Variances**: A portion of the budget will be shifted from LABBC to LACI to support additional staff to develop the emerging technology on-ramp.

**Cost to Date**: Identify what portion of the project budget has been expended to date.

**Additional Funding**: Existing LACI and LABBC budgets

Budget History												
July 1 — FY 2015 (past)			2016 rent)	FY 2017 – June 30 (planned)								
DOE	Cost-share	DOE	Cost-share	DOE	Cost-share							
\$28,000	\$33,000	TBD	TBD	\$520,000	\$520,000							



# **Project Plan and Schedule**

			Quarter: Q1 Q2			Q3				Q4		Q5			Q6					
		Year: 2015						2016												
		Month:	J	Α	S	0	N	D	J	F	М	Α	M	J	J	Α	S	0	N	D
<u>Task</u> <u>Name</u>		Month:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Task 1.0																				
Project Manage																				
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Plan																				
	Subtask 1.1: Project Management Plan	1	М																	
Task 2.0																				
Identifyi																				
ng Tech and																				
Sites																				
	Subtask 2.1: TDI RFQ Launch	3			М															
	Subtask 2.2: TDI Marketplace Survey for New Technologies	_																		
		/							М											
	Subtask 2.3: Complete 3 of 5 TDI Demonstration Project Descriptions	9									М									
	Subtask 2.4: Launch TDI Property Matchmaking Program	7							М											
	Subtask 2.5: Development of TDI Recommended Elements of a Project Development Agreement	12												М						
	Subtask 2.6: Complete 3 of 20 TDI Property Assessment Reports																			
	Sublask 2.0. Complete 3 of 20 TDF Property Assessment Reports	11											М							
	Subtask 2.7: 1st Property Owner Commits to TDI Demonstration Project Installation	12												М						
1 End of Budget Period 1: Go / No Go Decision		12												G/						
		12												NG						