

### **CLEAN ENERGY FINANCING**

Driving Market Transformation





#### What We Do

# Information Resource & Expert Implementation Partner



Energy Programs



Technical Assistance



Training & Education



## Areas of Expertise



Building Performance



Clean Transportation



Distributed Generation



Energy Efficiency



Energy Storage



Renewable Energy



## Clean Energy Financing

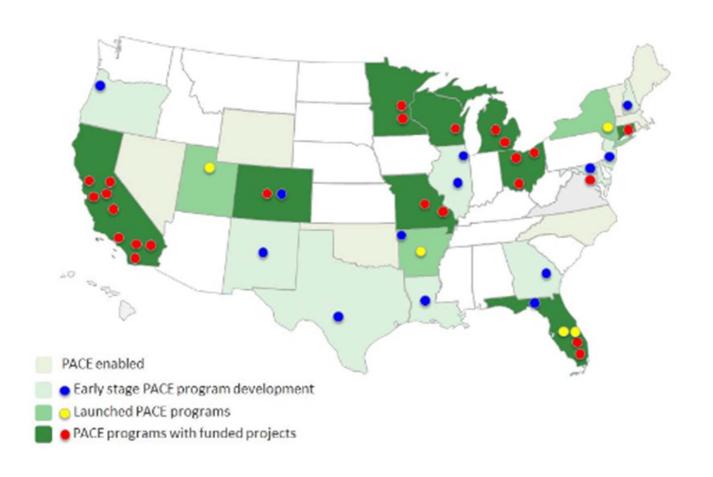
PACE financing has exploded in California and contractors are using it as a vehicle to not only provide basic services like HVAC change-outs, but to expand their business models and find new clients.



## PACE Market in 2010



## PACE Market in 2015





## California Policies Accelerating Growth

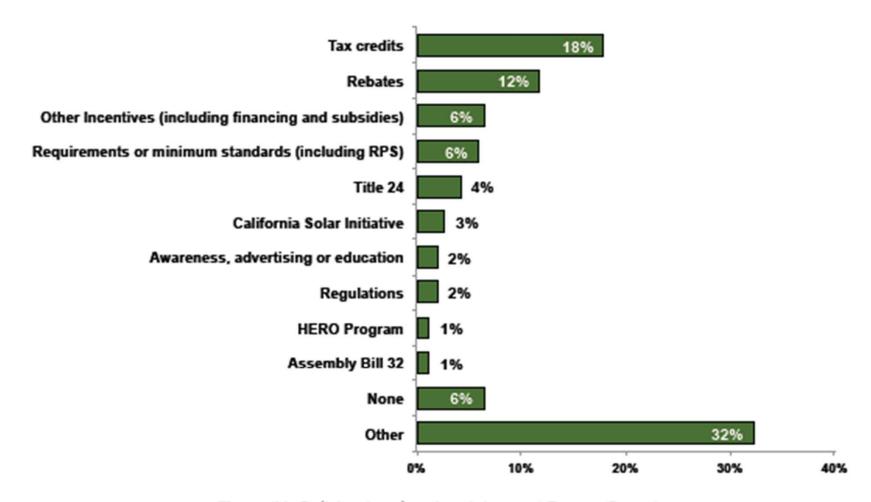


Figure 11: Policies Accelerating Advanced Energy Growth

California Advanced Energy Employment Survey, December 2014



## Estimated National Residential PACE Market

#### Estimated Residential Market

25000

Number of Projects

Renewable Energy

14%

Mixed

500

\$, millions

7500

Jobs Created



## Estimated California Residential PACE Market

	WRCOG & CA HERO	SANBAG HERO	Sonoma County	CA FIRST	Ygrene
Projects funded	17,695	6,320	2,061	140	<100
\$ funded (in millions \$)	\$342.6	\$112.1	\$58.0	\$2.8	<\$2.0



# California EE Jobs by Region

Region	Energy Efficiency Jobs		
Southern California	130,000		
Inland Empire	40,500		
Central Coast	10,000		
Greater San Francisco Bay	65,500		
Greater Sacramento	7,500		
Rest of CA	47,513		

California Advanced Energy Employment Survey, December 2014

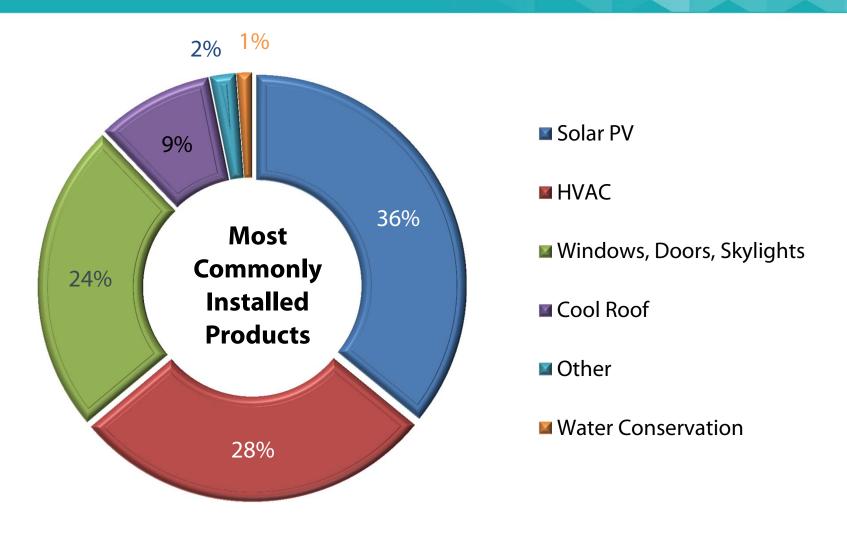


### Jobs that are Financed

Average project size of financed jobs: \$ 10,130 Average project size of non-financed jobs: \$4,365



# Most Commonly Installed Products



HERO Program, January 2015



## Energy Efficiency Programs

Energy financing programs that have generated substantial volume permit customers to finance single measure improvements (i.e., HVAC replacement, lighting retrofits) in addition to more comprehensive approaches that deliver deeper energy savings.

Energy Efficiency Financing Program Implementation Primer, SEE Action, January 2014



#### Panel Presentations

Laura Franke, Managing Director

Public Financing Management, Inc.

 Barbara Spoonhour, Director of Energy and Environmental Programs

Western Riverside Council of Governments

Andrew Waugh, Strategic Accounts Manager

Renovate America



#### Discussion

– What are some of the **benefits** of energy efficiency financing?

– What are some of the **challenges** that need to be overcome?

– What are some of the **tools** available to integrate energy efficiency into the market?



#### Benefits

- Opportunity to incentivize homeowners to move from a single measure to a whole house retrofit
- Aligns with homeowner behavior and how various market segments decide the install order of their retrofits
- An opportunity for Raters (and additional professionals) to provide services to the contracting community
- In-depth contractor training on financial tools and sales techniques, as well as other professional training (Raters, Realtors, other channel partners)



## Challenges

- Lack of collaboration between contractors
  - Many solar contractors do not offer home performance services or collaborate with home performance contractors
  - Many contractors do not collaborate with Raters
- Lack of customer understanding and/or interest
  - Confusing program messaging, marketing and EE rebate programs
- Solar is more visible than EE
  - Prioritizing solar installations over home performance
- Insufficient financing options to cover combined projects
  - PACE is helping



#### Tools

- PACENow PACENow.org
- CSE's California's statewide PACE Map www.energycenter.org/PACE
- CSE's Clean Energy Finance Database www.energycenter.org/Finance
- CAEATFA's Energy Efficiency Financing Pilot Programs – single family this spring
- California's PACE Providers



