Deep and Cheap

"Direct Install 2.0" Program Model Delivers
Deep and Cost-Effective Energy Savings to the
Small and Medium Commercial Market

ACEEE Energy Efficiency as a Resource Conference
Josiah Adams
Program Development Manager
September 24, 2013



Direct Install 2.0

30% less cost per kWh saved*

4.7 times greater energy savings per site*

Savings realization rate of 98%

TRC of **2.0**

*Comparison between 0-100 kw CA IOU commercial programs as reported in 2010-11 annual reports.

EcologyAction



We provide innovative marketing and engagement programs that make it easy to save energy.

Energy | Transportation | Pollution Prevention | Zero Waste

Ecology Action

Program Design | Sales & Marketing | Program Delivery



Two time recipient of the

Governors Environmental and Economic Leadership Award



Ecology Action Energy Programs

Implement efficiency programs for CA Utilities

RIGHT

Commercial customers 0-500kW demand



Since 2002













Awarded \$2M DOE funding to refine our model



SMB Market Importance





Energy Savings

Over 90% of commercial buildings are <50,000 sq. ft.

Responsible for 45% of commercial energy use

Public Relations

Underserved customers

Local economic benefits

Typical Approach to SMB

Direct Install

Quick and easy to implement

Small measure set

Free or low cost

Deemed/prescriptive energy savings calculations

Changing Market

Focus on deep savings

Emphasis on accuracy

Increasingly expensive



Direct Install 2.0

High Touch, Full Service

Turnkey suite of services

Deep Specification

Bundle HVAC, refrigeration, advanced lighting



Improved Accuracy

New lighting savings calculation method

DI 2.0 Energy Savings Calculation

Deemed/Pre scriptive



Refrigeration



HVAC

Modified Lighting Approach



Lighting

Wattage X Hours of Operation (X Interactions) = kWh Savings

Deemed



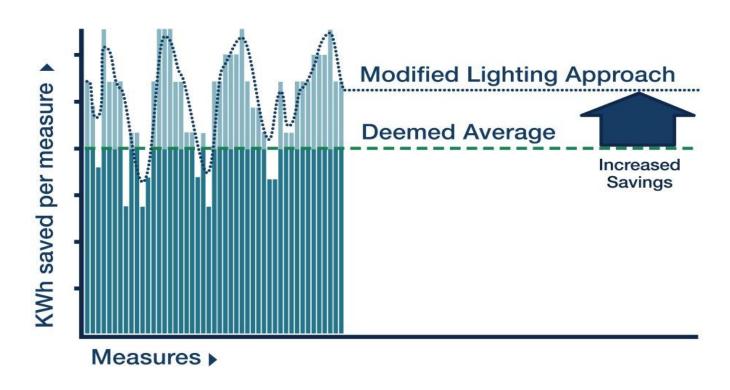
Deemed



Modified Lighting Approach

Modified Lighting Approach Benefits

Generates 10% – 15% greater energy savings



Modified Lighting Approach Benefits

Increases accuracy

Energy saving Bill impacts

Improves retrofits

More measures, flexible specification Avoids minimum equipment selection

Generates **finance-ready** projects



DI 2.0 Performance Data

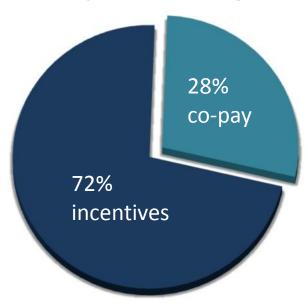
Average Job Profile

kWh per site 39,476

Savings over baseline = 12%

Job cost = \$6,051

Project Funding



2010-11 for all 0-200 kW customers



Why DI 2.0 works

High customer touch

Deep specification

Accurate energy savings and payback

Greater energy savings per measure

Significant customer copay

Finance-ready proposals

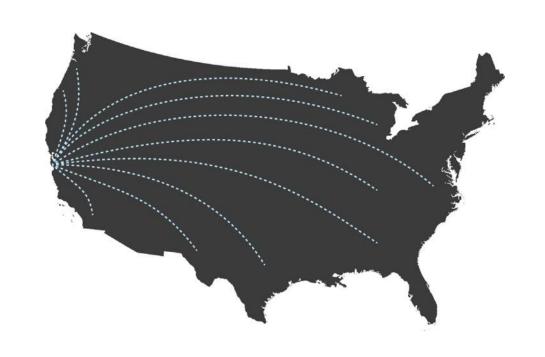


Looking Forward

Modified Lighting Approach approved for all CA Utilities

PG&E supporting use by other implementers

Awarded \$2M DOE funding to reach **20% energy savings** per site and **scale nationally**



EcologyAction

Thank You

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