



Steering Committee Meeting

December 7, 2012

Goal Recap A Platform for Deeper Market Engagement

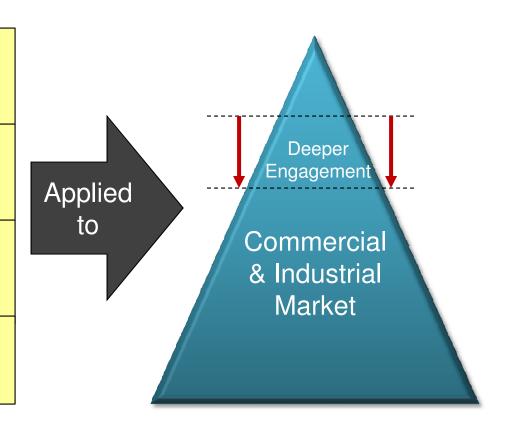
Sector Strategy

Addressing Priority Workforce Needs

Facilitating Stakeholder Engagement

Creating Sustainable Career Pathways

Developing Replicable
Best Practices







Agenda

10:00AM Welcome

10:05AM 2012 Recap

10:15AM Research Results and Discussion

11:15AM Break

11:30AM Direction - 2013 and beyond

12:15PM 2013 meeting cadence and wrap-up





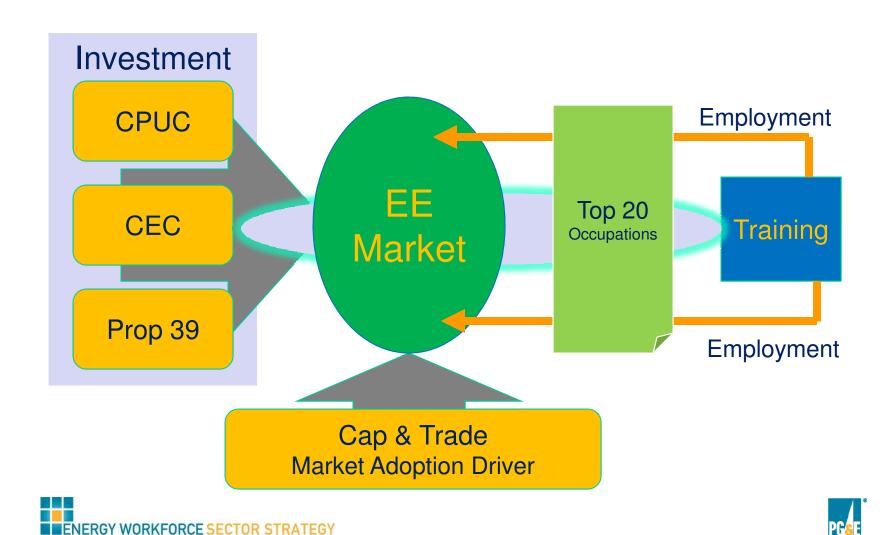
Proposed Meeting Outcomes

- Priorities for programs responsive to industry
- Recommended structure for guiding development
- Develop approaches to engaging educators





Investment to Drive Market Adoption



Goal: Form an Advisory Group

- Link incentives, training, and employment
- Address key growth vectors
 - Demand creation
 - ✓ Capacity
 - ✓ Compliance
- Leverage PG&E programs funded by CPUC
- Formulate a preliminary basis for moving ahead



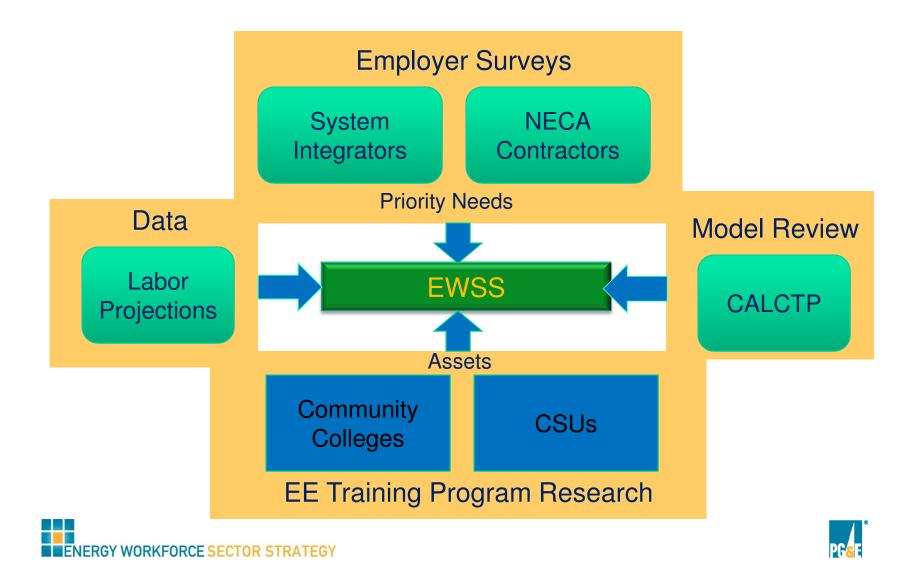




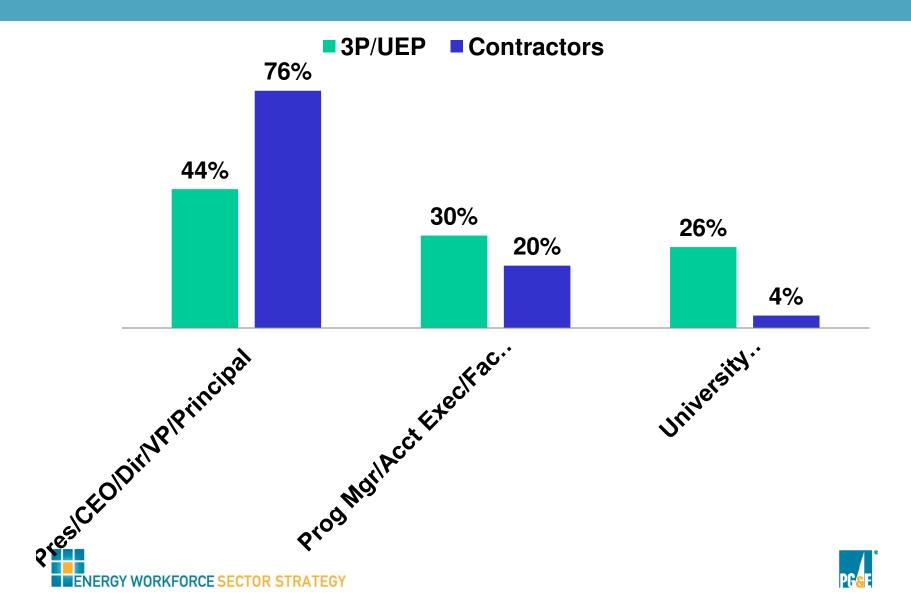


Research

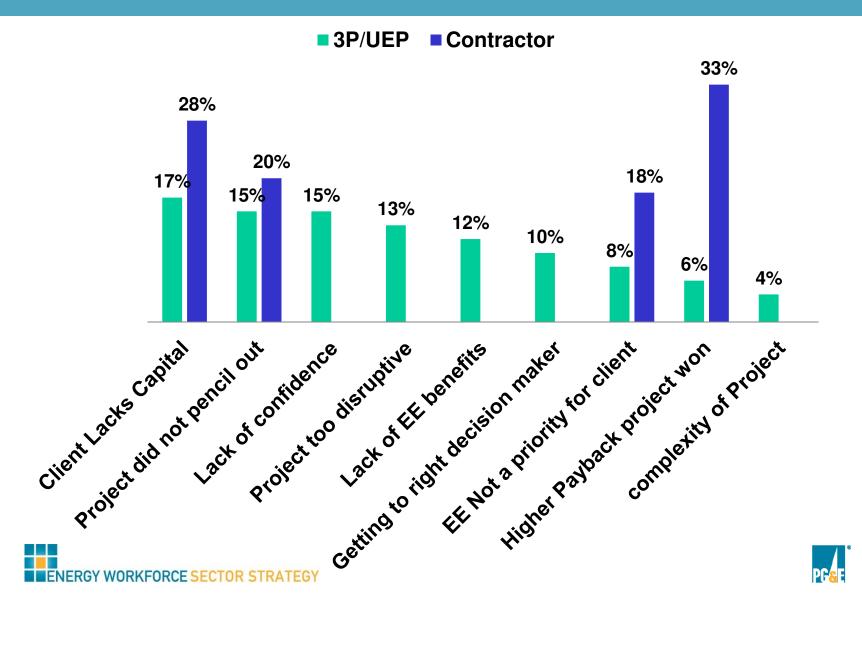
EWSS Research Process



Job Type Surveyed

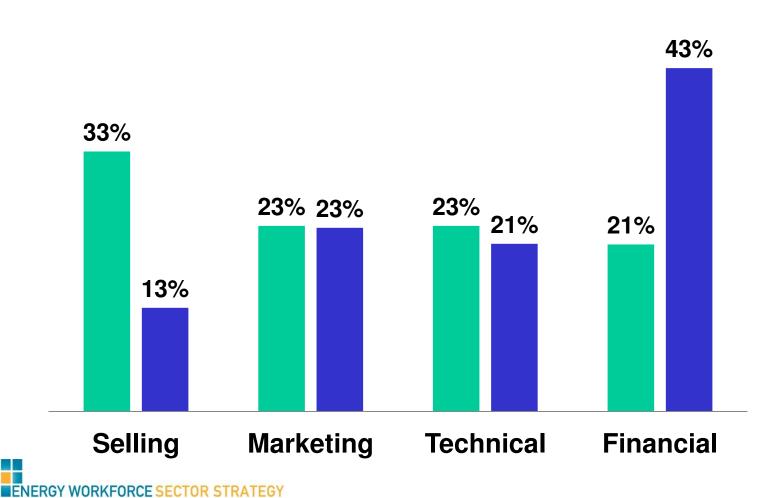


Obstacles to Energy Efficiency Projects



Training/Skills Desired

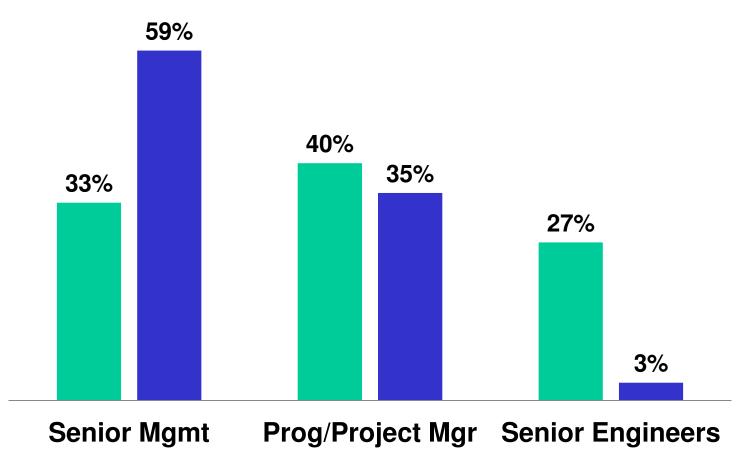






Participants for Training

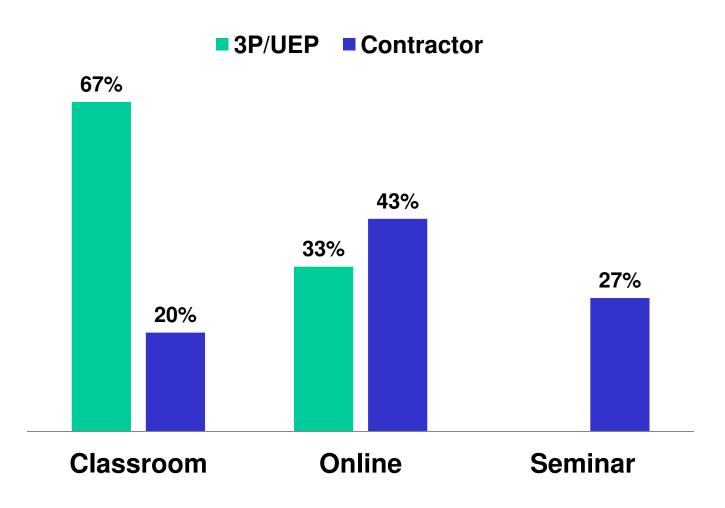
■ 3P/UEP ■ Contractor







Training Format

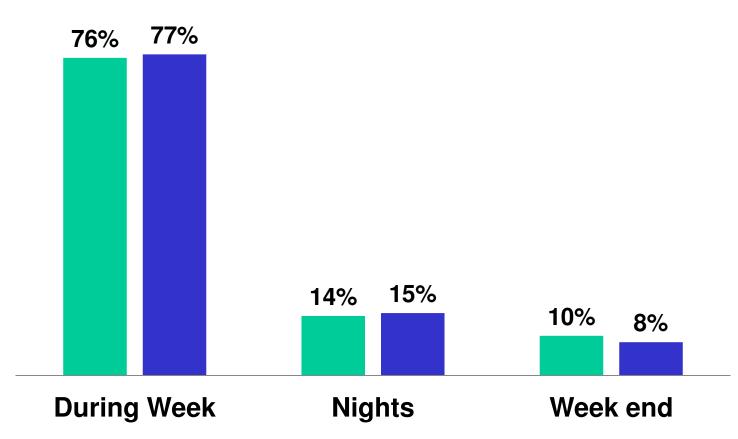






When Training Desired

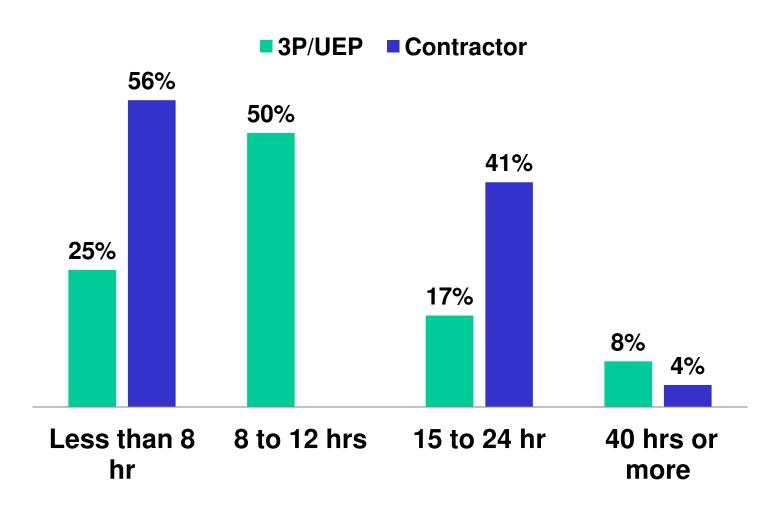








Amount of Training Hours







Business Development Seminar

Course Specifications:

- Tailored to EE industry practitioners who interact with C/I/A customers of PG&E
- Provide students with skills and knowledge to more effectively in increase customer adoption rates of EE projects
- Training Groups:
 - Senior management with EE firms
 - Program/Project Managers
 - Senior Engineers
 - Field Sales People
 - Account Executives and Vendors





Business Development Seminar

Course Content:

- Financial:
 - Language of the CFO
 - Which ROI tool and when (LCC, NPV, Simple Payback)
 - How loans and incentives change the equation
- Selling:
 - Identifying the key decision maker and the decision process
 - Consultative selling = Listening skills
 - Proposal development
 - Anticipating and overcoming concerns and objections
 - Identifying non-energy benefits
 - Creating a sense of urgency





Business Development Seminar

Course Content Continued:

- Marketing:
 - How to articulate the full value proposition to the customer
- C-Level Skills and Tools Needed:
 - Financial
 - PG&E partnership
 - Rebates and enhancements
- Case Studies:
 - Real-world sales challenges
 - Tailored to the particular cohort





Longer-Term Employment Outlook

Annual Job Openings in PG&E Service Area 2012 - 2016

Professional Categories	
Civil Engineers	318
Architects	225
General and Operations Managers	80
Construction Managers	79
Mechanical Engineers	64
Engineers, all other	62
Accountants & Auditors	31
Management Analysts	26
Environmental Engineers	25

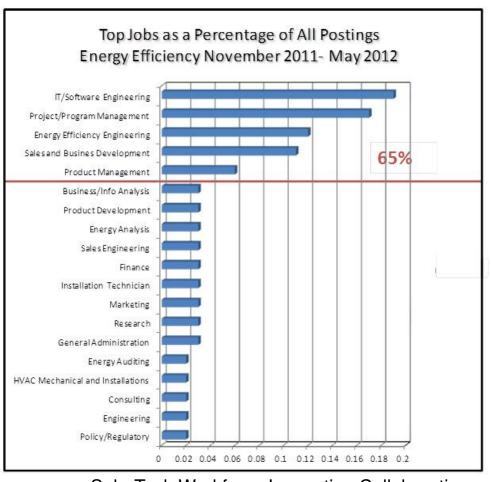
CTE Categories	
Electricians	309
Plumbers, Pipefitters, & Steamfitters	179
Carpenters	161
First Line Supervisors	129
Managers, all other	107
Cost Estimators	69
HVAC/R Mechanics & Installers	60
Construction & Building Inspectors	55
Sheet Metal Workers	45

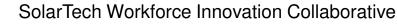
Economic Modeling Specialists Inc., 2012





Near-Term Needs









Survey of Education & Training Programs

Program Intensity – Top 20 Occupations

CSUs

Civil Engineering
General Construction
Architecture
Mechanical Engineering
Electrical/Electronic Engineering
General Engineering
Environmental Health Engineering

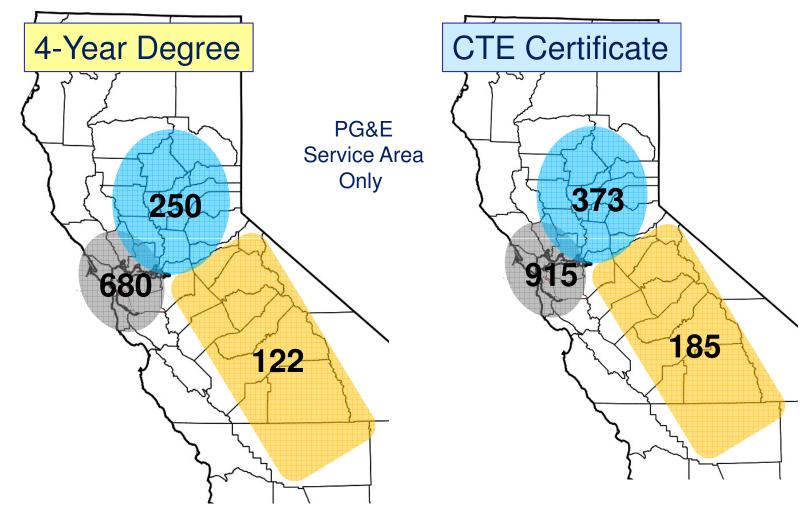
Community Colleges

Electricians
General Construction
Architecture
Carpentry
Energy/ HVAC Technology





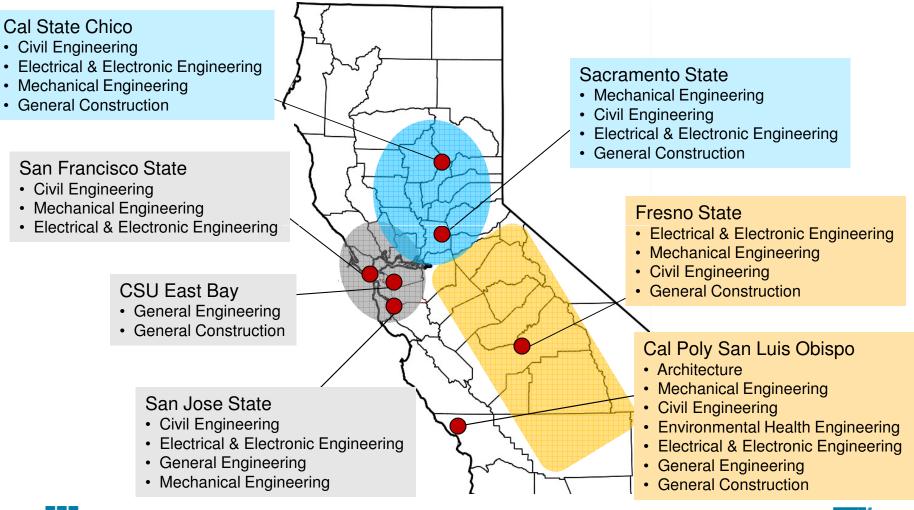
Annual Distribution of Job Openings Projected for 2012 - 2016







CSU Programs Highest Relevance to Energy Efficiency







Community College Programs Highest Relevance to Energy Efficiency

San Francisco City

- Architecture
- General Construction
- Electricians
- Energy/HVAC Technology

Laney College

- Energy/HVAC Technology
- Architecture
- General Construction
- Carpentry

West Valley College

Architecture

Foothill College

- Electricians
- Energy/HVAC Technology

Hartnell College

- General Construction
- Carpentry

Butte College

General Construction

Cosumnes River College

- · General Construction
- Architecture

Modesto Junior College

- General Construction
- Architecture

Fresno City College

- General Construction
- Architecture
- Energy/HVAC Technology









Direction 2013 & Beyond

Demand Creation Gaps

Area of Need	Skills Gaps
Marketing Training	Target Audience: Senior Energy Professionals
	KSAs: analytics, segmentation, messaging tailored by segment
Sales Training	Target Audience: Senior Energy Professionals
	KSAs: C-Level/ Facilities Manager relationship skills, consultative selling
	Target Audience: Incumbent energy efficiency professionals seeking senior positions
	KSAs: consultative selling coupled with core financial and technical elements
Marketing & Sales Education	Target Audience: Students in community college and university programs
	KSAs: perspectives in energy efficiency financial and technical elements





Capacity Gaps

Areas of Need	Capacity Gaps
Engineers	<u>Target Audience</u> : <i>Incumbent engineers with up-skilling needs, dislocated and career-changing engineers</i>
	KSAs: energy efficiency technology, systems, and economics
Energy Auditors	<u>Target Audience</u> : Dislocated technical workers and career changers
	KSAs: technologies, systems, codes, and standards
Skilled Technical Workers	<u>Target Audience</u> : Dislocated technical workers and career changers, <i>Students in Career Technical Education or JATC programs</i>
	KSAs: Specific skilled trades categories
ICT Skills for Technical Workers	Target Audience: TBD
	KSAs: Integration of ICT into traditional electrical, electronic, and mechanical skill sets





Compliance Gaps

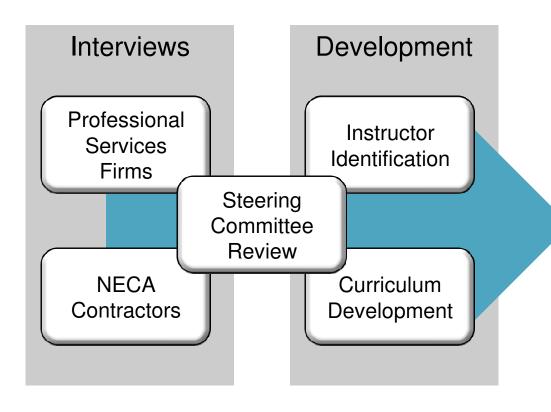
Area of Need	Compliance Gap
Optimizing Energy Efficiency and Return on Investment	Target Audience: TBD KSAs: Compliance skills and best practices across the spectrum of commercial/industrial energy efficiency





Deliverables

Demand Creation



Deliverables

Senior Professionals' Sales Course

Recommend
Biz / Engr
Modules

Recommend Career Pathways





Deliverables

Capacity

Data
Analysis
(From Phase 1)

Advisory Council Review

Capacity
Recommendations





Deliverables

Compliance

Update Codes & Standards

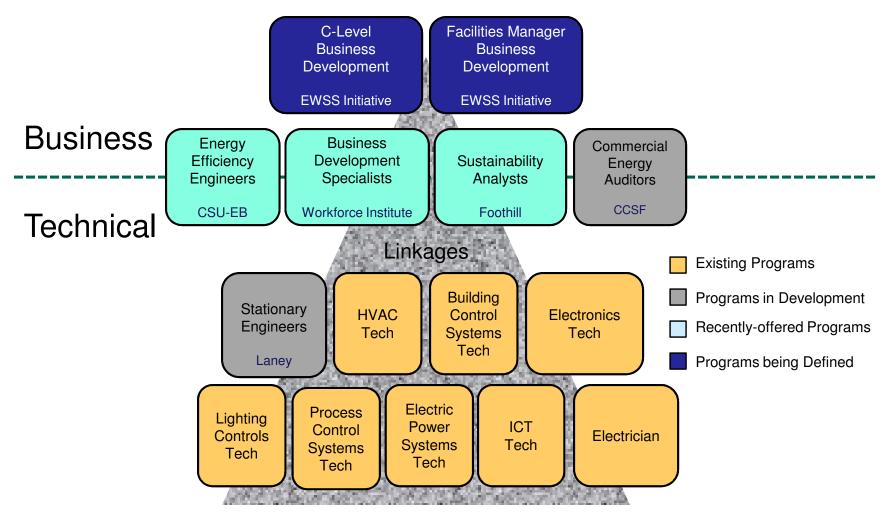
Document Best Practices Advisory Council Review

Lessons Learned from CALCTP Compliance Recommendations





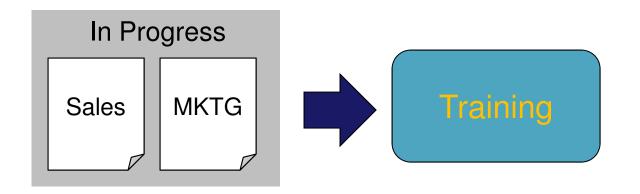
Energy Efficiency Training Portfolio

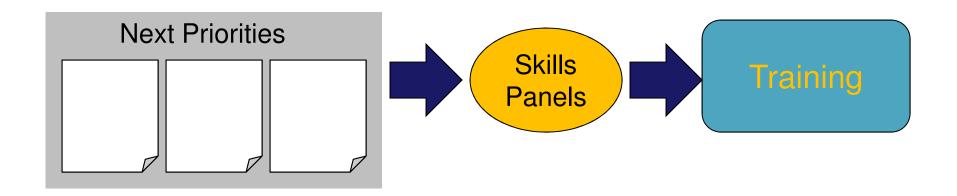






Engagement with Educators?

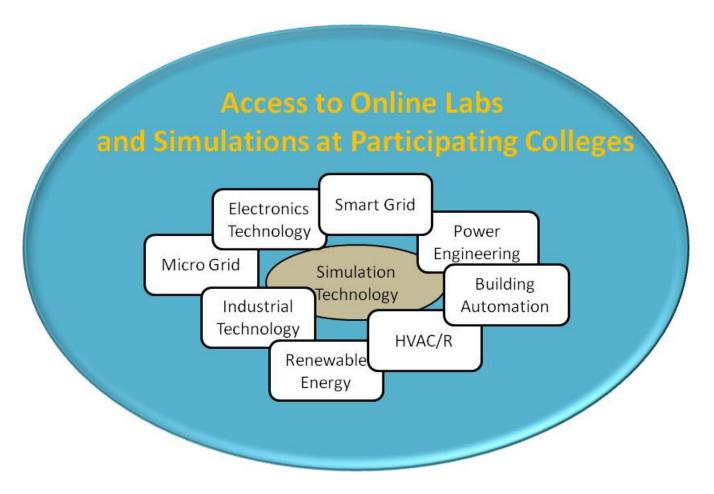








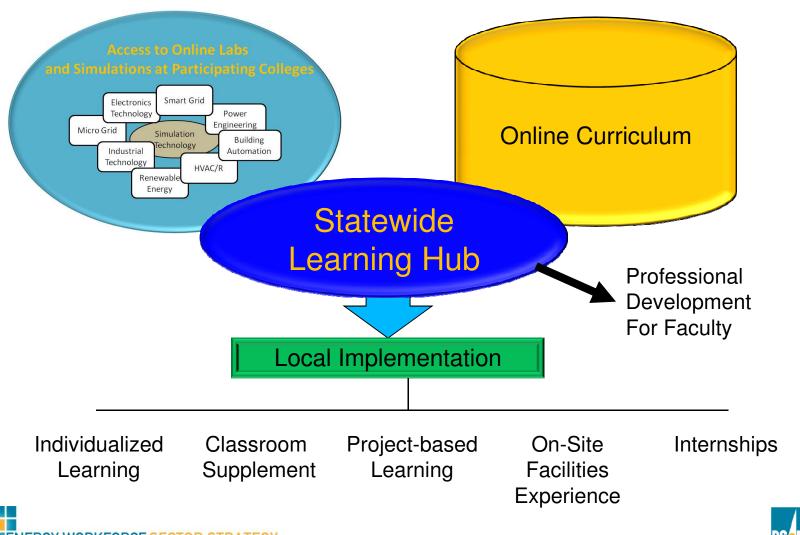
Potential Investment in the Future







Potential Investment in the Future









Discussion





Thank You