## **ESPC** and Commercial PACE

**ESC MT Conference** 

Charlotte, NC

September 1, 2015

### Overview of Presentation

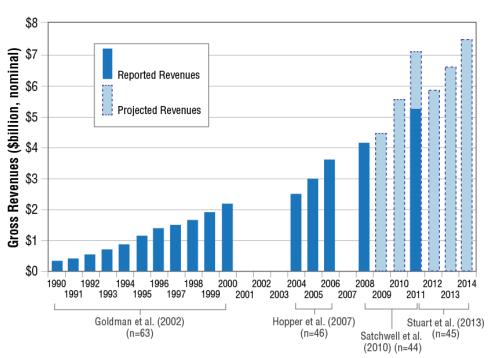
- ESCO Industry Snapshot
  - ESCO Industry Growth
  - Revenue Shares and Trends
  - Market Drivers
- Remaining Market Potential
  - COM is the Great White Whale
- Mismatch of ESPC and COM Retrofits
- ESCO Experience in the COM Market

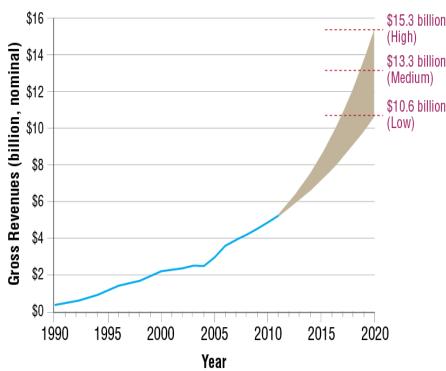


### INDUSTRY SIZE: CURRENT AND PROJECTED



• The ESCO industry continued to grow at a steady pace--despite the onset of a major recession--reporting revenues of approximately \$5.3 billion in 2011.

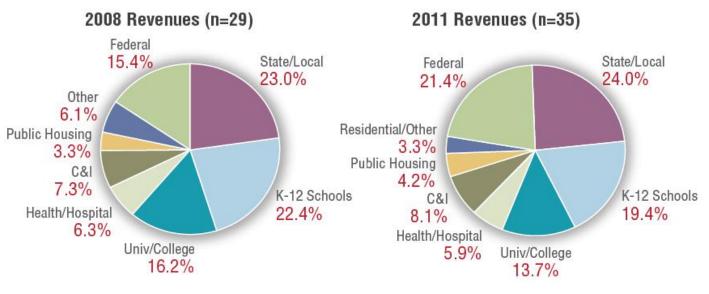




We project that the ESCO industry will more than double in size from ~\$6 billion (2013) to \$11-\$15 billion (2020).

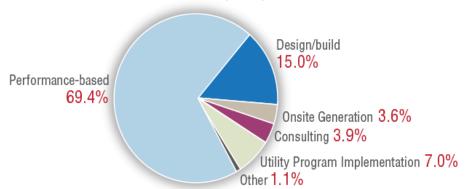
#### **2008 & 2011 REVENUE SHARES**





~85%revenuefrom"MUSH"+Federalmarket

#### 2011 Revenues (n=34)



• ~70% of 2011 revenue from performance-based contracts; 15% from design/build.

### **ESPC Market Drivers**

- Federal government
  - EE mandates
  - President's Performance Contracting Challenge
  - Need for capital improvements (GSA budgets)
- MUSH Market
  - EE mandates
  - Need for capital improvements
  - Convert wasted \$\$ to payment stream



## MARKET PENETRATION (2003-2012)

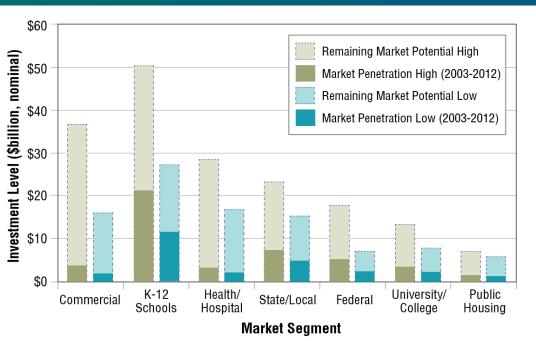


• Market penetration of performance contracting is highest in the K-12 schools sector and lowest in the Private Commercial sector...

<b>Market Segment</b>	U.S. Census Region				
	Northeast	Midwest	South	West	U.S.
K-12 Schools	45%	40%	42%	30%	<b>42%</b>
State / Local	39%	30%	30%	45%	30%
Federal	27%	28%	25%	27%	28%
Universities/Colleges	25%	25%	23%	30%	25%
<b>Public Housing</b>	20%	15%	18%	18%	18%
Health/Hospitals	10%	10%	15%	15%	10%
<b>Private Commercial</b>	10%	6%	8%	9%	9%

#### REMAINING MARKET POTENTIAL





 Remaining investment potential in facilities typically addressed by this industry ranges from ~\$71 to \$133 billion.

<b>Market Segment</b>	Low Estimate	High Estimate	
K-12 Schools	\$15.8	\$29.4	
Health/Hospital	\$15.0	\$25.6	
Private Commercial	\$14.4	\$33.5	
State/Local	\$10.6	\$16.3	
Public Housing	\$4.7	\$5.7	
Universities/Colleges	\$5.7	\$9.8	
Federal	\$4.9	\$12.7	
Total	<b>\$71.2</b>	\$133.0	

 Questions remain about the economic potential of these markets and the accuracy of this estimate...

## Mismatch of ESPC and COM

- ESPC delivers comprehensive projects
  - Multiple measures, 10-20 year paybacks
  - Guaranteed savings
  - Debt financing
- Private sector wants short-term NOI increase
  - Lighting and controls, 2-3 year paybacks
  - Don't need guarantees
  - Don't want long term debt



# Typical ESPC Measures

- Lighting Indoor, outdoor, street lights
- Heating Ventilation & Air Conditioning (HVAC)
- Energy Management Systems
- Motors and Variable Speed Drives
- Building Envelope Measures
- Water Conservation Measures
- DG and CHP renewable or fossil fuel
- Other Systems (kitchen, security, etc.)



## Advanced ESPC Measures

- + Renewables solar, wind and biomass
- Distributed Generation or CHP
- + Demand Response
- Water metering
- Street and traffic lighting
- Building sustainability



## ESCO Experience in COM Market

- Best example is Clinton Climate Initiative
  - High-profile promotion
  - 40 cities signed up
  - 6 major ESCOs enlisted
  - \$5 billion in financing committed from US banks
- One project developed Empire State Bldg.



## Personal Perspective

- 40 years promoting EE to COM owners
  - ESCOs, utilities, public policy, etc.
- COM response: not our business
- Very modest success
- Mandates are key to moving the market
  - Benchmarking, leasing standards, etc.



## Questions?

Donald Gilligan
NAESCO
978-498-4456
dgilligan@naesco.org

