Intro to ESPC

Performance Contracting 101

The Fundamentals of Energy Savings Performance Contracting

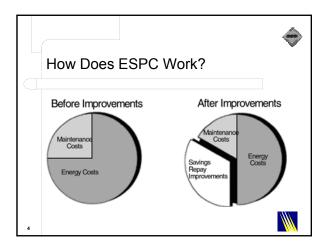
What is Energy Savings Performance Contracting (ESPC)?

Simply put, an ESPC converts dollars spent on wasted energy into energy-saving capital improvements in the customer facility. An ESPC uses capital supplied by third parties – banks or specialized energy project finance companies – and is structured to be self-financing, *i.e.*, the total cost of the project is paid from guaranteed savings.

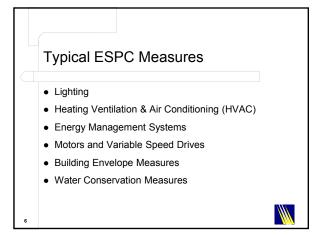
How Does ESPC Work?

- ESCO identifies energy saving opportunities.
- ESCO implements improvements paid from savings.
- ESCO arranges financing from all available sources.
- ESCO guarantees that savings will meet or exceed annual debt service payments to cover project costs.
- ESCO pays any savings shortfalls.





ESPC Project Services Preliminary Audit or Project Scoping Investment Grade Audit Engineering Design Arrange Project Financing Construction Management Commissioning Monitoring and Verification (M&V) Operations & Maintenance (optional)



Advanced ESPC Measures

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

7



What Makes ESPC Different?

- ESPC creates jobs without new taxes every \$1 million of ESPC project value creates about 10 direct jobs in engineering, construction and equipment manufacturing
- ESCO assumes project technical risk
- ESPC uses taxpayer dollars to save taxpayer dollars long term
- Project costs paid from savings
- One company delivers all services
- Project savings guaranteed by ESCO



The ESCO Industry Has Delivered:

- \$40B in projects since 1990
- \$50B savings guaranteed and verified
- 330,000 person-years of direct employment
- \$25 billion of infrastructure improvements
- 420 million tons of CO₂ savings <u>at no</u> <u>additional cost</u>



US ESCO Industry Overview

- NAESCO ESCO Members Represent 95% of the U.S Market
- ESCOs provide turnkey projects
 - Full range of efficiency and renewable technologies
 - Project costs paid from savings
- NAESCO members delivered about \$5 B of energy efficiency projects in 2010
 - ≈ All US utility EE programs combined



ESCO Business Model

- Specialized construction business
 - Deliver large, comprehensive projects
 - 10+ year paybacks
- Design/build delivery
- Public sector is more than 80% of business
- Building improvements a major driver
- Guaranteed savings
- About 20% of projects use utility incentives



