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Deep Dive Workshop

Scaling up Energy Efficiency with Simplified M&V Meters and ESCO Business Models



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Background

This Deep Dive Workshop (DDW) will bring together international and Asia-based experience to discuss how energy efficiency efforts can be scaled up for impact. The workshop will cover two primary areas: (a) how measurement and verification (M&V) tools and methods can be used to effectively create an “EE meter”; and (b) experience with testing and scaling up business models for energy service companies (ESCOs).

Measurement and Verification (M&V) is the meter of an EE Project and is required to be able to calculate the achieved energy savings (revenues) with any degree of accuracy or reliability. Without a M&V Meter, no responsible investor or financier will fund energy efficiency on a sustainable basis and energy efficiency will not be recognized as a sustainable or scalable market opportunity. This DDW will demonstrate the relatively simple and transparent ways to measure and verify savings on the primary EE technologies according to the generally accepted M&V principles of the International Performance Measurement and Verification Protocol (IPMVP). It will also present the new global Certified Energy Savings Verifier (CESV) certification being provided (initially in Indonesia and France) by the Efficiency Valuation Organization (EVO) to professional individuals who have passed a rigorous exam demonstrating they have the competency to independently certify estimated and achieved savings of EE Projects.

Importance of ESCOs. Based on IEA estimates, over 60% of global energy service company (ESCO) business is situated in Asia, driven largely by the dramatic ESCO market growth in China. Presentations and discussions in the workshop will show which ESCO business models show the promise of growth, and how such models can be replicated in other nascent ESCO markets.

Topics Covered

- Measuring and verifying savings using M&V principles of the International Performance Measurement and Verification Protocol (IPMVP)
- Details of the new Certified Energy Savings Verifier (CESV) global certification
- The energy efficiency financing gap and the ESCO performance contracting model
- Country ESCO presentations: challenges of growing the ESCO market in Asia Pacific
- Energy efficiency financing and market-based instruments

About the Organizers

The Efficiency Valuation Organization (EVO) is an international non-profit organization whose products and services help people engineer and invest in energy efficiency projects worldwide. EVO's Vision is to create a world that has confidence in energy efficiency as a reliable and sustainable energy resource. And EVO's Mission is to ensure that the savings and impact of energy efficiency and sustainability projects are accurately measured and verified.

The Asia-Pacific ESCO Industry Alliance (APEIA) was formed at a meeting convened during the Asia Clean Energy Forum, in June 2018, APEIA now represents the ESCO markets of China, India, Japan, Korea, Philippines, Singapore and Taiwan, and believes that energy efficiency capital and solutions can be deployed at a more climate-responsive rate if ESCO markets across the region, and the global market, are strengthened with risk-mitigated, investment-grade ESCO business models and other barrier removal interventions.

The Energy Studies Institute (ESI) of the National University of Singapore will share its recent findings from a review of Singapore's energy efficiency financing programmes and the market barriers that persist to impede access to energy efficiency finance in the country's manufacturing sector. The ESI paper intends to gather market feedback on possible next steps which include an improvement of the existing financing programmes and the design and implementation of new government and private sector interventions.