Opportunities in Energy Efficiency: Green Building and the Industrial Sector

USAID's Energy Efficiency for Clean Development Program (EECDP)

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Washington, D.C.

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Opportunities in Energy Efficiency

Overview

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Green Growth: A New Model for Sustainable Development in Asia

Energy efficiency – a different role in the developing world

Priorities

- Energy security
- Rapid economic development
- Energy access
- Resilience
- Food
- Water
- “Green growth”/ low-emission development

Workshop Objectives – Focused on Implementation

- Identify unique characteristics and drivers in developing countries to unlock opportunities for energy efficiency
- Leverage proven strategies to advance energy efficiency in new markets
- Design implementation strategies to meet specific market needs
- Design creative strategies for financing

Focus

- ✓ Green Buildings
- ✓ Industrial Sector Buildings/Manufacturing Plants

Expectations

- We'll skip the basics and jump right into implementation
- Focus on two specific areas of opportunity in developing countries – Green Buildings and the Industrial Sector
- Energy efficiency is not always about technologies – it is also dependent on the market and the best solutions often require behavior change

- Financing for energy efficiency looks completely different from financing for generation

A Different Financing Strategy

- Energy efficiency vs. energy supply infrastructure
  - Save money (don't spend it)
  - Smaller investments, with better and faster returns
  - Measurement systems and expertise are important to measure performance
  - Standards ensure quality and motivate compliance
  - Complicated outreach to SMEs
- Is dedicated financing a successful strategy?
- Will innovative financing strategies work?

New Resource Coming Soon – Energy Toolkit

The Economic and Emplo ×

dev.energytoolbox.org/energy/toolkits/energy-efficiency/calculating-impacts/

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ENERGY RESOURCES AND TOOLKITS
- Reforming the Electricity Sector
- Improving Energy Efficiency
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    - Integrating into CDCS
    - Mitigating Climate Change
  - Developing Programs
  - Basics
  - Case Studies
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- Grid Connected Renewables
- Mitigating Oil Dependency

LEARNING RESOURCES
- USAID and USGOV Training
- Publications and Case Studies
- Energy Links
- Infrastructure Training

THE ECONOMIC AND EMPLOYMENT IMPACTS OF ENERGY EFFICIENCY

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Primary benefits of energy efficiency include reduced energy consumption, economic growth, and job creation. Ancillary benefits of energy efficiency include emissions reductions and health impacts.
[photo credit]

One of the greatest development challenges of the 21st century is meeting the current energy needs of billions of people around the world and the future needs of the over nine billion people projected to share the planet by 2050.

Energy efficiency is a powerful tool that emerging economies can use to secure their energy future while still continuing along their development path. Energy efficiency has proven itself as a tool to reduce energy consumption while bolstering economies and creating jobs in North America and Europe; however, the potential gains from efficiency in the developing world may be even greater.

CHART: Population growth and energy demand growth over time, focus on 2000-2050

Population and Energy Demand: 2000-2050

The Energy Efficiency Opportunity

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Monday, January 12	
8:30-9:00	**Registration**
9:00-9:30	Welcome
9:30-10:00	Overview
Session I: Benefits, Challenges, Opportunities	
10:00-10:30	Green Buildings: Setting the Context
10:30-11:00	Green Building: Exploring Opportunities
11:00-11:15	**Break**
11:15-11:45	Industrial Energy Efficiency: Setting the Context
11:45-12:15	Industrial Energy Efficiency: Exploring Opportunities
12:15-1:00	**Lunch in the Frontiers in EE 10th fl. Atrium**
Session II: Best Practices and Ideation	
Case Study Presentations	
1:00-1:30	High Impact Project & Strategies #1: Building Codes (Vietnam)
1:30-2:00	High Impact Project & Strategies #2: Building Energy Performance Benchmarking (Indonesia)
2:00-2:30	High Impact Project & Strategies #3: Green Building Councils and Stakeholder Support (Tanzania)
2:30-2:45	**Break**
2:45-3:45	Ideation Session I: Mindset Mapping Green Building Solutions in (5) Breakout Groups
3:45-4:15	Small group report out
4:15-4:30	**Wrap-up Day 1**
4:30-5:30	**Happy Hour in 10th fl. Atrium**

Tuesday, January 13	
Session III: Industrial Sector - Energy Efficiency Benefits, Challenges, Opportunities	
9:00-9:30	Day 1 Review ; what 'ah has' came to mind last night?
9:30-10:15	Electric System Planning
10:15-11:00	Energy Efficiency Program Planning
11:00-11:15	**Break**
11:15-12:15	"What Would You Do?" Benchmarking Industrial Energy Perfomance Breakout Group Exercise
12:15-1:00	**Lunch in the Frontiers in EE 10th fl. Atrium**
Session III: Gameplanning	
1:00-1:30	Ideation Session II: Gallery Walk Issues
1:30-3:00	Gameplanning Concurrent Session: Green Building and Industry Energy Efficiency
3:00-4:00	Gameplanning Concurrent Session Report Out
4:00-4:30	**Closing Remarks**
Adjourn	