



Strategies for Effective Deployment of Clean Energy

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CLEAN ENERGY DEPLOYMENT BEST PRACTICES

- Policies
- Programs
- Target Sectors/Markets
- Financing Mechanisms
- ESPC
- Capacity Building
- Questions/Discussion

POLICIES

Establish an enabling policy framework:

- EE/Sustainable Energy/GCC Plan: National; State; Municipal
 - Identify key inputs:
 - Target sectors/markets
 - Technologies
 - Cost-effectiveness parameters
 - Determine outputs
 - Savings potential (technical, market, achievable)
 - Annual cost and savings targets
 - Reporting
- Building codes/appliance standards
 - Enforcement and training
- Regional initiatives (e.g., REGGI, Pacific Coast Action Plan on Climate & Energy)
- Utility business model (e.g., NY REV)
- Feed-in-Tariffs (RE), Systems Benefits Charges (EE) (by Regulatory Authorities)
- State Clean Power Plans (by Air Quality Offices)

Programs

- Develop programs
 - Annual cost and savings targets
 - Delivery mechanisms
 - Private sector trade allies and ESCOs
 - State/local administrators and third parties
 - Utilities
 - State/local EE.RE Portfolio Standards
 - National, state, local challenges: BBC, Covenant/Compact of Mayors
 - Product Labeling (e.g., Energy Star)
 - Monitoring & Evaluation plans

Target Sectors/Markets

- Residential
 - Single family
 - Multifamily
 - Low income
- Commercial
- Industrial
- Public/institutional
 - Schools
 - Hospitals
 - Cultural
 - Recreational
 - Offices
- Fuel type

FINANCING MECHANISMS

- World Bank/Regional Development Banks/Multidonor Facilities
- Loan Guarantees with Commercial Lenders
- State and Municipal Funds
 - Green Banks
 - Revolving Loan Funds
 - PACE
 - QECBs
 - Secondary markets (e.g., WHEEL)
- Utility Incentives
- Usually requires project preparation assistance

ENERGY SAVINGS PERFORMANCE CONTRACTS (ESPC)

- Turnkey project services by ESCO: project design, implementation, monitoring/verification
 - No initial cost to client. ESCO repaid by energy/water bill savings over project lifetime.
 - Requires legislative/policy framework
 - Authorization
 - Procurement law
 - Budgeting law
 - Local government funding
 - Allow project recipient to keep bill savings to repay ESCO, without cutting energy budget
 - Essential to provide support services: streamlined approach, standardized procurement and contract

CAPACITY BUILDING

- EE Centers of Excellence
 - National Labs
 - NGO Energy Efficiency Centers
 - Regional Energy Efficiency Organizations
- On-Line Portals/Solution Centers
- Awareness
 - Benefits, technologies, sources
- Training
 - Step-by-step “how to” guidance
 - Certification for practitioners

Questions?

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