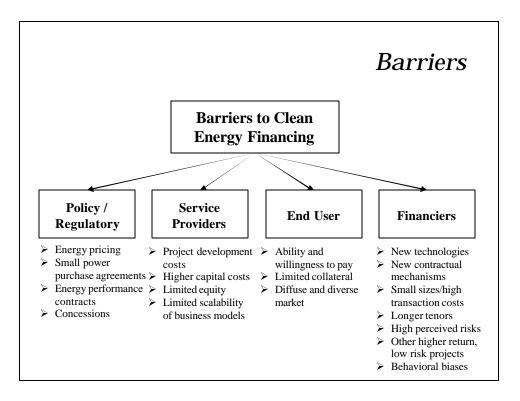
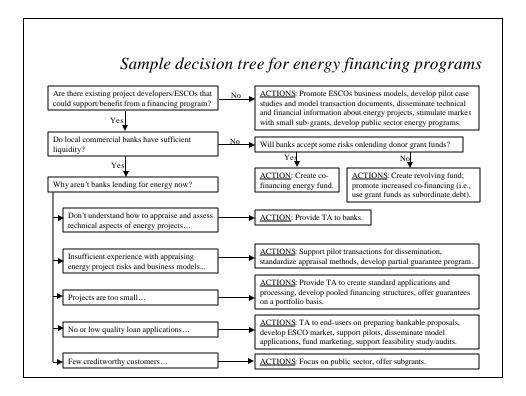
Financing Clean Energy: USAID Experiences and Lessons Learned

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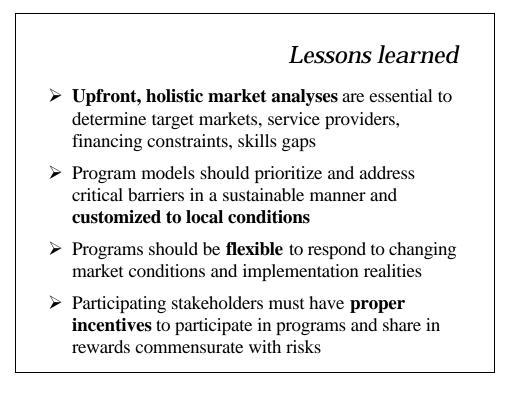
What is clean energy? Renewable energy (grid-connected and off-grid) and energy efficiency (industrial, commercial and public) Why is clean energy important? Energy is a key input for economic growth and quality of life improvement; clean energy is sustainable and can be least cost Why is commercial finance important? Finance drives transactions for on-the-ground results, forces commercial discipline and provides reality check for donor programs





Sample project structures

Project Structure	Example(s)
Portfolio guarantees	UBB in Bulgaria for municipal EE (~\$270k), Yes Bank in India for clean energy (~\$3m)
Pooled financing	Tamil Nadu (~\$900k) & Karnataka (~\$3.1m) in India for municipal bonds for water
Guarantees for multiple banks	5 banks in Central America for clean production (\$20k-130k)
Support a local guarantor	LGUGC in the Philippines for water (~\$4.4m)
Special purpose fund	CAREC, a regional mezzanine fund, in Central America for clean energy (~\$500k-1.75m)
Portable guarantee	GJMC in South Africa for municipal infrastructure investments (\$25m)



Lessons learned cont.

- Program must encourage competition (among service providers, equipment suppliers, banks)
- Programs should be commercially-oriented and demand-driven (i.e., end users/communities should drive projects)
- Subsidies should be used judiciously, transparently and have a clear exit strategy
- Pilot programs should test scalability of institutional and financial arrangements, clearly documented for target audiences (e.g., private sector, banks) and then intensively marketed

Lessons learned cont.

- Early deals help build organizations confidence and program credibility
- Ongoing technical support is needed to address emerging barriers, ongoing skills enhancement and counteract behavioral barriers
- Close donor coordination is needed to avoid competition and confusion

But, many challenges remain

- Despite growing energy costs, bias towards conventional energy production/supply remains
- Business bias towards production expansion rather than cost reduction inhibit high return EE projects
- Need for new strategies to bring successful business models and parallel financing schemes to scale
- Innovation to bundle projects to attract more private sector investment, financing and participation
- Promotion of sustainable energy policies, regulations, markets and enabling environment

