## Workshop on Renewable Energy and Poverty Reduction in Africa: "Best Practices for Productive Use and Job Creation

21st - 23rd March, 2007

Novotel Hotel, Dakar, Senegal

# Renewable energy and entrepreneurship development

**Case Study: AREED** 

#### Outline

- Drivers for renewable energy (RE): A review.
- AREED as response: model, key facts, enterprise types and impacts.
- Suggested elements of an SME-led RE intensification strategy for Africa.

## Drivers for renewable energy

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- Oil price shocks
- Projected depletion of oil reserves

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- Projected drops in RE prices
- Sustainable development theses

#### **≈ 2000s**

- Climate change mitigation
- Security and risk mitigation
- Poverty reduction/development

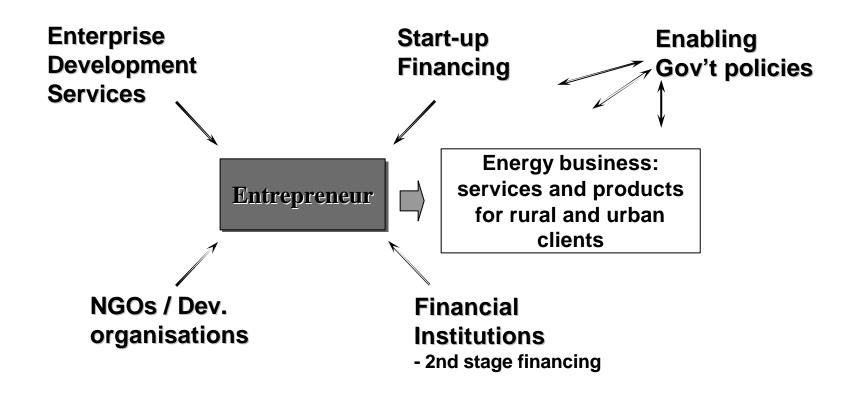
#### **Barriers**

- Ignorance of RE utilization and investment opportunities on the part of:
  - Public sector decision makers (partly blinded by short-term political expediency)
  - Private SME sector entrepreneurs
  - Programme managers in international financial, development and aid institutions
  - Utility managers
- Gaps in the 'finance continuum' for SMEs

SME finance + capacity gaps

	Innovation capital	Operating capital	Transaction finance
Often secured	Entrepreneur's Supplier credit		
Occasionally secured	Grants	Working capital loans	Consumer credit
Finance + capacity gaps	Weak business planning skills  Insufficient risk capital (growth and start- up)	Inadequate experience of Banks	Non-existent end-user finance options
Interventions egs. AREED, MEDREP, ISF	capital funds	Capacity- building and risk sharing with local banks  Stage 2:10 - 20 years	User finance, microcredit, lease/rentals, third party financing: Target group = Productive users of RE  Stage 3:20+ years

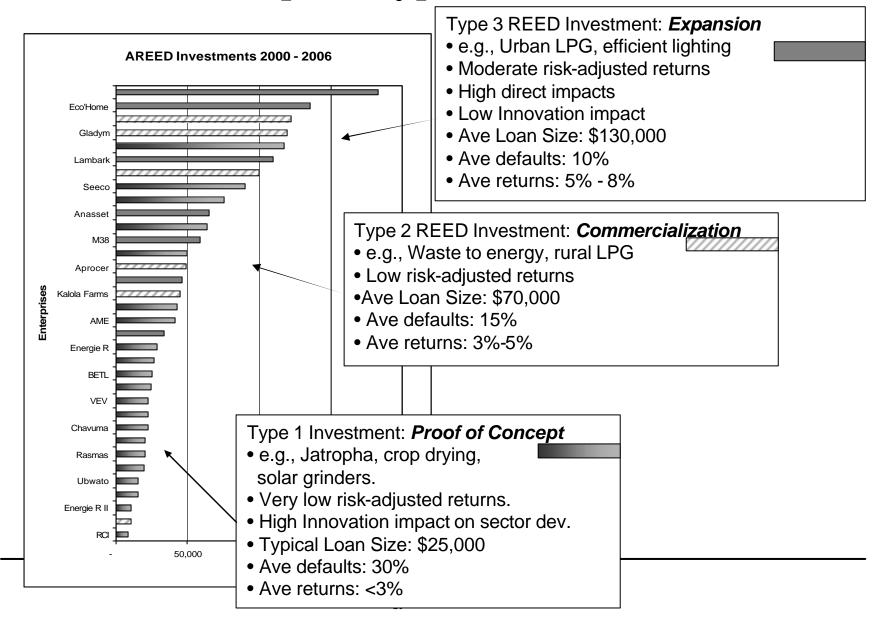
### The REED model



## | Key facts about AREED

- Current geographic coverage: Mali, Senegal, Ghana, Tanzania, Zambia.
- **Donors**: UN Foundation (\$6.3m), Sida (\$0.7m), BMZ (\$0.4m), Dutch Government (\$0.2m), Other: DBSA, Bodyshop, Domini Investments.
- **≤** Seed Fund Manager: *E*+*Co.*
- ✓ Seed fund size: \$1.4 m (2000) to \$1.7m (today).
- Country NGO Partners: ENDA, MFC, CEEEZ, KITE, TaTEDO.
- Enterprise development costs: \$0.20 \$0.50 per \$1 invested.
- Impacts: Slow to produce direct impacts (job creation, GDP effects, GHG mitigation, etc) but can be significant over time.

## AREED enterprise types



## Impacts: Investments, Beneficiaries, Environment

**# Enterprises supported:** 

**25** 

Customers served:

**331,000** 

**∠** Qty C02 emissions avoided p.a:

Qty charcoal/firewood displaced:

≥ 263,000 tons

## Elements of an RE intensification strategy

- - African Rural Energy Enterprise Development (AREED)
  - ACCESS (a Malian NGO-led initiative takes off!)
- Close the SME capacity and finance gaps
  - Create/expand seed and growth capital funds
  - Increase # of Intermediary Organizations
- Increase funding for inter-agency coordination, structuring enabling policies and financial incentives. Examples: Sida, UNF, BMZ...



## Thank you!

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