

# Financing CDM Projects

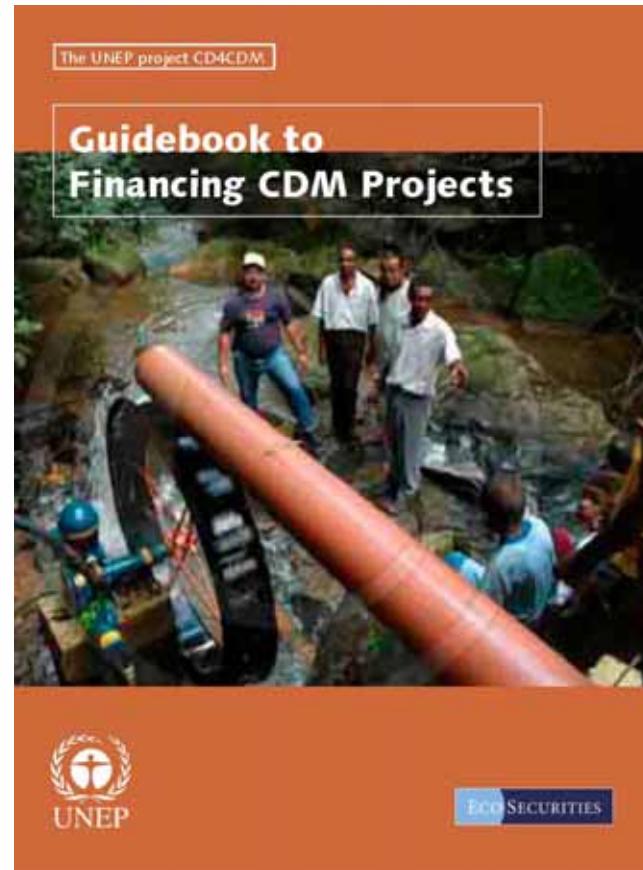
## Approaches and Lessons Learned

Francisco Ascui

Principal Consultant, EcoSecurities

# Context

- > UNEP Risoe Centre Guidebook to Financing CDM Projects
  - Forthcoming publication (Q1 2007) [www.cd4cdm.org](http://www.cd4cdm.org)
  - Two primary audiences:
    - Project developers (how to finance CDM projects)
    - Financial institutions (how to assess CDM projects)
- > Based on EcoSecurities' knowledge of the carbon market and direct experience of over 235 CDM projects



# Challenges

## >Project size

- 48% of projects in CDM Pipeline are small-scale
- Typical financing <\$20 million

## >Uncertainty post-2012

- 6 years of reliable CER revenue
- 7.2 months delay = 10% reduction in reliable revenue

## >High risk

- Country risk, technology risk, CDM-specific risks (etc)

## >New market

- Awareness & methods take time to develop

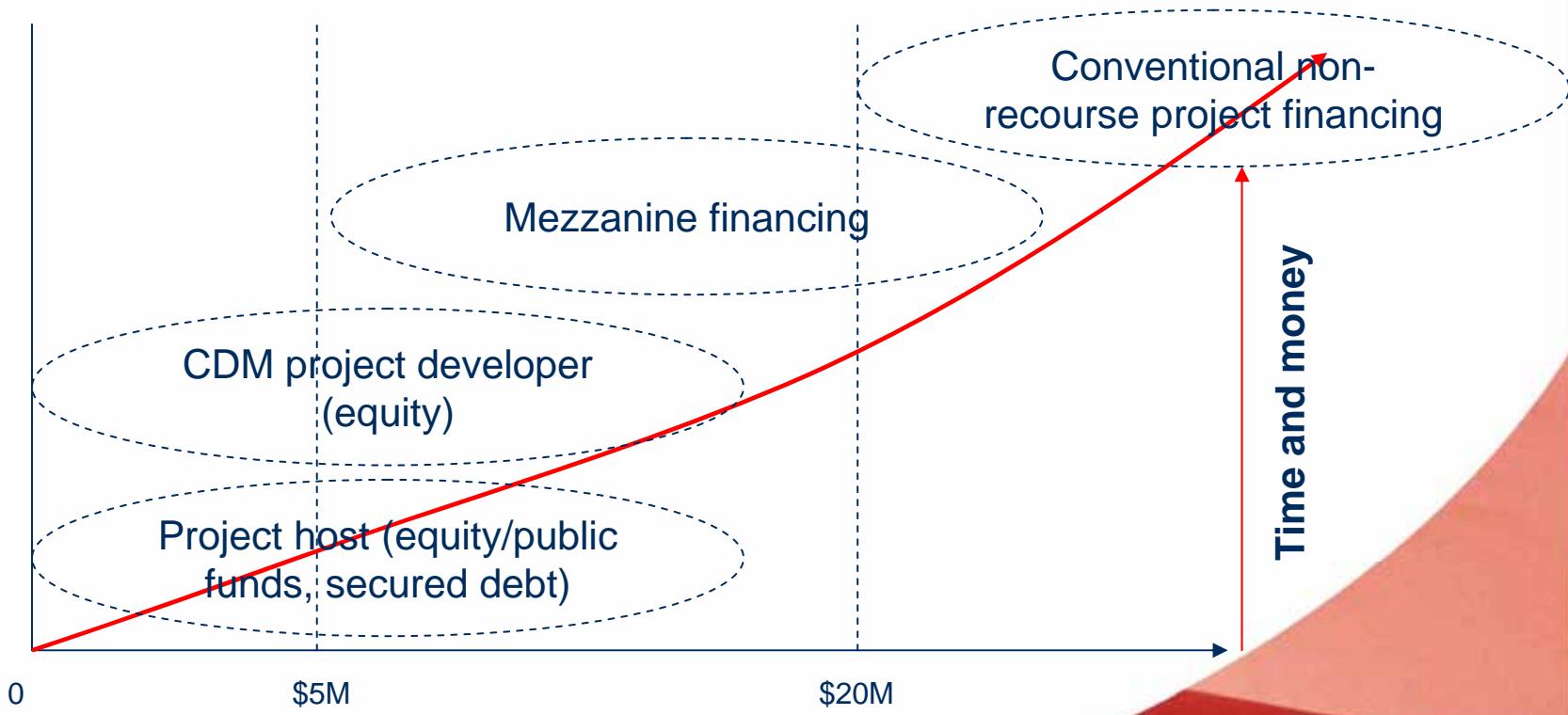
# Sources and types of finance available

- > Development phase
  - Carbon funds (equity, advance on purchase)
  - Private sector CDM developers (equity, advance on purchase)
  - Project hosts (equity, public sector budgets)
- > Construction phase
  - Lenders (debt – secured or unsecured)
  - Investors/private sector CDM developers/project hosts (equity)
  - Mezzanine finance providers (hybrid debt/equity)
  - Equipment suppliers (lease or credit)
  - CER buyers (advance on purchase)

# Typical approaches to financing

- > Third party CDM project developer
  - Equity for project development
  - May also be able to provide equity for construction
  - (Advance) purchase of CERs
- > Project host
  - Own equity/public funds for project development
  - Own equity/public funds or secured loan for construction
- > Conventional non-recourse project financing
  - Not applicable to project development
  - Bank debt + equity (e.g. project host, developer or other investors) for construction

# Match the source of finance to the project



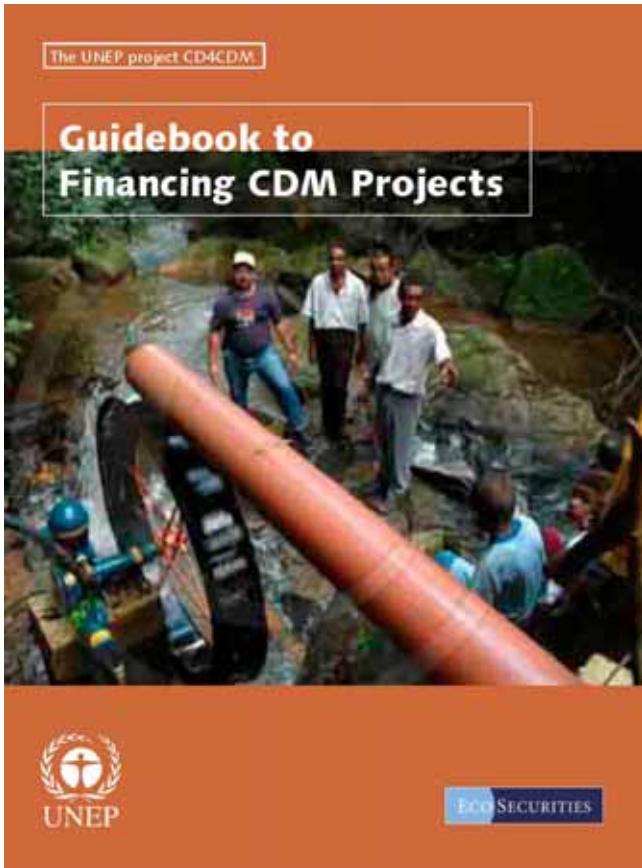
# Be aware of trade-offs

| Model                                       | +   | -  |
|---|---|--|
| Third party project developer               | <p><b>Fast and high quality process:</b> specialist expertise</p> <p><b>Simple:</b> just one contract to be negotiated</p> <p><b>Low risk to project host</b></p>     | <p><b>Expensive:</b> high cost of capital</p> <p><b>Responsibility</b> for project handed over to developer</p>  |
| Project host (own equity or secured loan)   | <p><b>Project host retains control</b> of project and CER revenue</p> <p>Raising finance <i>may</i> be rapid (if host has sufficient cash reserves/credit rating)</p> | <p><b>Lack of specialised CDM expertise</b> can cause delays = lost revenue</p> <p><b>Complex:</b> many contracts to be negotiated</p> <p><b>High risk to project host</b></p> |
| Conventional non-recourse project financing | <p><b>Access to large amounts of capital</b></p> <p><b>Limited or no recourse to project sponsors</b></p>   | <p><b>Time consuming:</b> extensive due diligence</p> <p><b>Contracts must be with credit-worthy counterparties</b></p>  |

# Look for risk management opportunities

- > Country risk
  - Country risk insurance, partial risk guarantees
- > Financial risks
  - Match currency of debt to currency of revenues (CERs in hard currency helps)
  - Structure loan repayments to match CER payments schedule (or vice versa)
- > Market risks
  - Long-term off-take contracts
  - ERPA: can assign some risks to buyer (for a price)
  - Most CER buyers have good credit ratings
- > Delivery risks
  - Specialist advice, effective monitoring, performance contracts
  - CERs (and other revenues?) into escrow accounts or direct to lenders/investors

# Thank you!



For more information, contact:

Sami Kamel

UNEP Risoe

[sami.kamel@risoe.dk](mailto:sami.kamel@risoe.dk)

Francisco Ascui

EcoSecurities

[francisco.ascui@ecosecurities.com](mailto:francisco.ascui@ecosecurities.com)