

Project Overview

Forest Sector Institutional Reform and REDD+ in Ethiopia: Making Participatory Forest Management Pro-Poor Carbon Sequestration Policy

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Partners

- World Bank (Mike Toman)
- Portland State University (Randy Bluffstone)
- EfD/Ethiopia (Alemu Mekonnen, Zenebe Gebreegziabher, Abebe Damte)
- Gothenburg University (Peter Martinsson)
- Social Science Research Center, Berlin (Ferdinand Vieider)
- Colby College (Sahan Dissanayake)
- Berkeley Air Monitoring Group

Project Goal

“Support efforts on poverty alleviation and climate change mitigation within the context of the UN Collaborative Programme on Reducing Emissions from Deforestation and Degradation in Developing (REDD+) Countries.”

Components

- **Component 1:** *Using focus groups, field-based experiments and stated preference experiments, evaluate how institutions can be crafted within both community forestry and REDD+ systems to achieve climate change, livelihood and poverty reduction goals.*
- **Component 2:** *Using a randomized field experiment, evaluate the extent to which improved stoves can play a role as a potential REDD+ instrument and whether stove adoption is a possible measure of REDD+ compliance.*

BRIEF MOTIVATION

Post-Rio 1992 FCCC Implementation Meager

- Most progress regional (e.g. Brazil Amazon Fund, RGGI, EU ETS, California) and local
- Exception, perhaps, non-Annex 1 (i.e. developing country) forestry
- COP 13 in Bali (2007), COP 15 in Cancun (2010)

REDD+

- Established 2008.
- Reward carbon sequestration IFF costs of sequestration are truly low
- 12% - 20% of climate change due to land use (more than transport)
- For more information come to REDD+ parallel session 6B @ 13:45

REDD+ is a Potential Opportunity for Developing Countries

- Possible way to add value to land used for forestry and as a source of income
- Possible non-carbon benefits
- Some concerns too...

Community Forests (CFs)

- Often forests are *de jure* government owned
- About 18% of world forests and 25% - 30% of LDC forests, but much bigger in low-income countries (e.g. SSA, Andes, South Asia)
- Key subsistence products (fuelwood, fodder, grazing, NTFPs, etc.) that are directly used
- Black carbon – second to CO₂ as contributor to climate change, with small stoves ≈ 25% of black carbon impact.

Key Research Questions Addressed

- What income, equity or environmental tradeoffs might be associated with adapting Ethiopian CF management to include REDD+?
- What institutional structures and levels of payments would spur Ethiopian communities to supply critical carbon sequestration environmental services?
- What is the appropriate local-level decision-making within which to participate in REDD+?
- What benefit-sharing mechanisms are likely to be most appropriate for assuring that REDD+ improves rural livelihoods and reduces poverty?

Methods

- 15 focus groups (about 300 people)
- Public good experiments to examine cooperation and links to reported CF behaviors
- CE REDD+ contract elements and opportunity cost of carbon (Sahan in session 6B)
- CE improved cookstoves
- Improved cookstove RCT

Improved Cookstove RCT

- Ethiopian Federal Government will distribute 9 million improved stoves
- Mirt *injera* stove
 - More efficient
 - \approx 50% less fuelwood used and \approx 90% lower PM emissions
- Controlled cooking test - 360 treatment and 144 control
- Stove use (360 stoves)
 - Stove use monitors measure temperature every 10 minutes for 60 days
 - Treatments
 - Cost treatment (0 or 25 birr)
 - Payment for use treatment (50 birr for using every two weeks for first 40 days)
 - Network and group building treatment



Links with EfD Initiative

Bottom Line

Project would not Exist without EfD Initiative

- I spent 2006/2007 at EfD/Ethiopia and collaborate before that time
- Research ideas developed and refined over 5-8 years
- Chance to meet and assemble highest quality research team possible
- Research projects are a world of mutual interdependence.
 - Friendships, contacts, trust are critical.
 - Cannot contract everything
- EfD Initiative helps generate country and topic-specific knowledge, as well as the relationships, to go forward.

Go EfD!

Thank You