





Standards for REDD+ Economic Mechanisms

Brian Murray Director, Economic Analysis Nicholas Institute for Environmental Policy Solutions Duke University

Terrestrial GHGs and Climate Mitigation: Developments in Science, Economics, & Policy UN FCCC Conference of Parties 16 Side event

Cancun, Mexico December 7, 2010







There are many economic mechanisms for REDD+

The focus here is on the carbon offset market





Forest Carbon Credit Chain of Custody











Why standards?

- Buyers need to know what they are buying
- Sellers need to know what to sell
- Overseers need to know that
 - <u>An offset is an offset</u> reductions are real, permanent, and verifiable
 - <u>Basic protections are upheld</u> (environmental, social, governance, transparency,...)







Many different standards



























REDD+ standards need to wrestle with numerous complex issues









Who owns the Rights?









Measurement and Monitoring



R.H. Fraser^{a,*}, A. Abuelgasim^b, R. Latifovic^a Remote Sensing of Environment 95 (2005) 414-427





Additionality

With project



globalcarbonproject.org

Without project



Mongabay.com

Or...





Nicholas Institute for Environmental Policy Solutions Duke University







Avoid Deforestation for agriculture in one place



Deforestation elsewhere for agriculture





Nicholas Institute for Environmental Policy Solutions



(Im)permanence



Avoid Deforestation in Year 0



Deforestation delayed to Yr 5



Receive credits

Replace credits?







How current standards deal with these issues

Issue	Approaches
Rights and benefits sharing	Legal and consultative requirements
Measurement and Monitoring	Technical requirements (tiered)
Additionality	Discrete additionality tests (legal, financial,) Project baseline
Leakage	Local monitoring Estimation of market leakage
Permanence	Liability establishment (buyer, seller) Management provisions - financial guarantees/insurance - setaside requirements (buffers)



Nicholas Institute for Environmental Policy Solutions



From the project to the jurisdictional level

- Voluntary market to date has focused on project level
- Kyoto Protocol/CDM rejected project-level REDD for many of the problems referenced above
- Current policy movement is toward jurisdictional accounting
 - UNFCCC: national
 - Calfornia: state
 - US (erstwhile) legislation state -> national
 - Why?

 Deals better with problems above, especially intrajurisdictional leakage







This doesn't mean the end of projects

- Top-down projects from the government
 - Projects are ~ subcontracts
 - Government takes responsibility for aggregate performance
- "Nested" projects
 - Finance still flows directly to subnational projects (not all through government)
 - Rationale: Investors prefer to deal with projects not governments
 - Project accounting must be reconciled with national accounting
 - Problems
 - Complicated
 - Risky: possibility of project losing credits because of extramural performance







Recent Developments

Voluntary markets

- Many REDD methodologies under review/approval by VCS, CAR, ACR,...
- Independent initiatives

Compliance markets

- California first compliance market for REDD anywhere
 - State-level accounting Brazil, Mexico
- US stalled legislation has held back what would have been world's largest compliance market
- UNFCCC we shall see

Different vehicles

- Conventional government funds
- Corporate Social Responsibility efforts/supply chain







Emerging Topic

policy brief



N P810-05 December 2010 nicholasinstitute.duke.edu

Payments for Blue Carbon Potential for Protecting Threatened Coastal Habitats

Brian C, Murray, W, Aaronjenkins, Samantha Sifleet, Linwood Pendleton, and Alexis Baldera¹ Ncholasinstitute for Environmental Policy Solutions, DukeUniversity

Coastal habitats worldwideare under increasing threat of destruction through human activities such as farming, aquaculture, timber extraction, or real estate development. This loss of habitat carries with it the loss of critical functions that coastal ecosystems provide: support of marine species, retention of shorelines, water quality, and scenic beauty, to name a few. These losses are large from an ecological standpoint but they are economically significant as well.⁴ Because the value of these ecosystem services are not easily captured in markets, those who control these lands often do not consider these values whenchoosing whether to clear the habitat to produce goods that can be sold in the marketplace. This is a form of market failurethat leads to excessive habitat destruction. As aresult, scientists, policymakers, and other concerned parties are seeking ways to change economic incentives to correct the problem.



Figure 1. Global distribution of seagrass, salt marsh ,and mangroves.

Severs: Simush (lestin 10) other pro-tatinal polyapondarase developed (ant) ty UHE-VEXCard TXC, The barase is score lets. Margine sile sites 2.0) other globapolygondarase complets by UHE-VEXCard Dates with Microard Setting Center (UHE-VEXCA) is observed within the therations Secting To the Setting Section 2.0) other globapolygondarase complets by UHE-VEXCard Dates with Microard Section 2.0) other setting Section 2.0) other setting Section 2.0) other globapolygondarase complets by gain lang significant-workcop. Sect Affairming Center (UHE-VEXCA) Dates of the VEXCard Dates with Microard Microard Dates and Section 2.0) other globapolygondarase complete by an an application system. Section 2.0) other global polygon and polycodrase complete by UHE-VEXcid Dates with Microard Dates (UHE-VEXC), 2005, For further Information, ea mal spatial analoging-workcop Section 2.0) other global polygon and polycodrase complete by UHE-VEXcid Dates with Microard Dates (UHE-VEXC), 2005, For further Information, ea mal spatial analoginge-workcop Section 2.0) other global polygon and polycodrase complete by UHE-VEXcid Dates with Microard Dates (UHE-VEXC), 2005, For further Information, ea mal spatial analoginge-workcop Section 2.0) other global polygon and polycodrase complete by UHE-VEXcid Dates with Microard Dates (UHE-VEXC), 2005, For further Information, e-- mal spatial analoginge-workcop Section 2.0) other global polygon and polycodrase complete by UHE-VEXcid Dates with Microard Dates (UHE-VEXC), 2005, For further Information, e-- mal spatial analoginge-workcop Section 2.0) other global polygon and polygon and polygon e-vork or polygon and polygon e-vork or polygon



