

Tribal Forest Carbon – An Overview of Project Mechanics and Benefits

Institute for Tribal
Environmental Professionals

9/5/2017



Who is Bluesource?

- Oldest and largest carbon offset developer in the North America
- >200 Projects, >20 Project Types, >150 million tonnes of emissions reductions represented in portfolio
- Dedicated Forestry Team: Includes in-house finance, marketing, and legal experts, plus 5 professional foresters with unparalleled forest carbon experience
- Strategic partners include: TNC, EDF, Audubon, The Arbor Day Foundation, The Pacific Forest Trust
- Developer with most listed compliance forest offset projects with the California Air Resources Board
- Market Maker, help guide clients to finding the best counterparty and best sale pricing on environmental benefit related transactions



San Francisco



Salt Lake City



Calgary



Toronto



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What Are Forest Carbon Offsets?

- Forests across the US sequester substantial amounts of CO₂
- By maintaining or increasing forest stocking, forest landowners can generate units of CO₂ emissions reductions (“Carbon Offsets”)
- Companies wishing to combat climate change are willing to pay forest owners for these Carbon Offsets, thereby claiming credit for reducing CO₂ emissions and mitigating some of the effects of climate change



Environmental Co-benefits

Forest offset projects offer a host of environmental co-benefits beyond carbon sequestration:

- Support biodiversity
- Improve water quality
- Improve air quality
- Erosion control
- Habitat connectivity
- Recreation



Financial Benefits

- Average Bluesource forest project generates >\$6 million in revenue over the first 10 years of project life
- Best projects generate >\$30 million in first decade
- >75% of first decade's revenue often realized at first credit issuance (i.e. in year one)



Forest Carbon Markets

Voluntary Market – Companies voluntarily choose to purchase offsets to reduce their emissions

- Greater variation in pricing (<\$1 to >\$12)
- Premium value attributed to “charismatic” projects
- Less certain demand

Compliance Market – Companies purchase offsets to help meet their legally mandated emissions targets (CA, Quebec, Ontario)

- More consistent pricing (currently ~\$11 to \$13)
- Built in demand through 2030

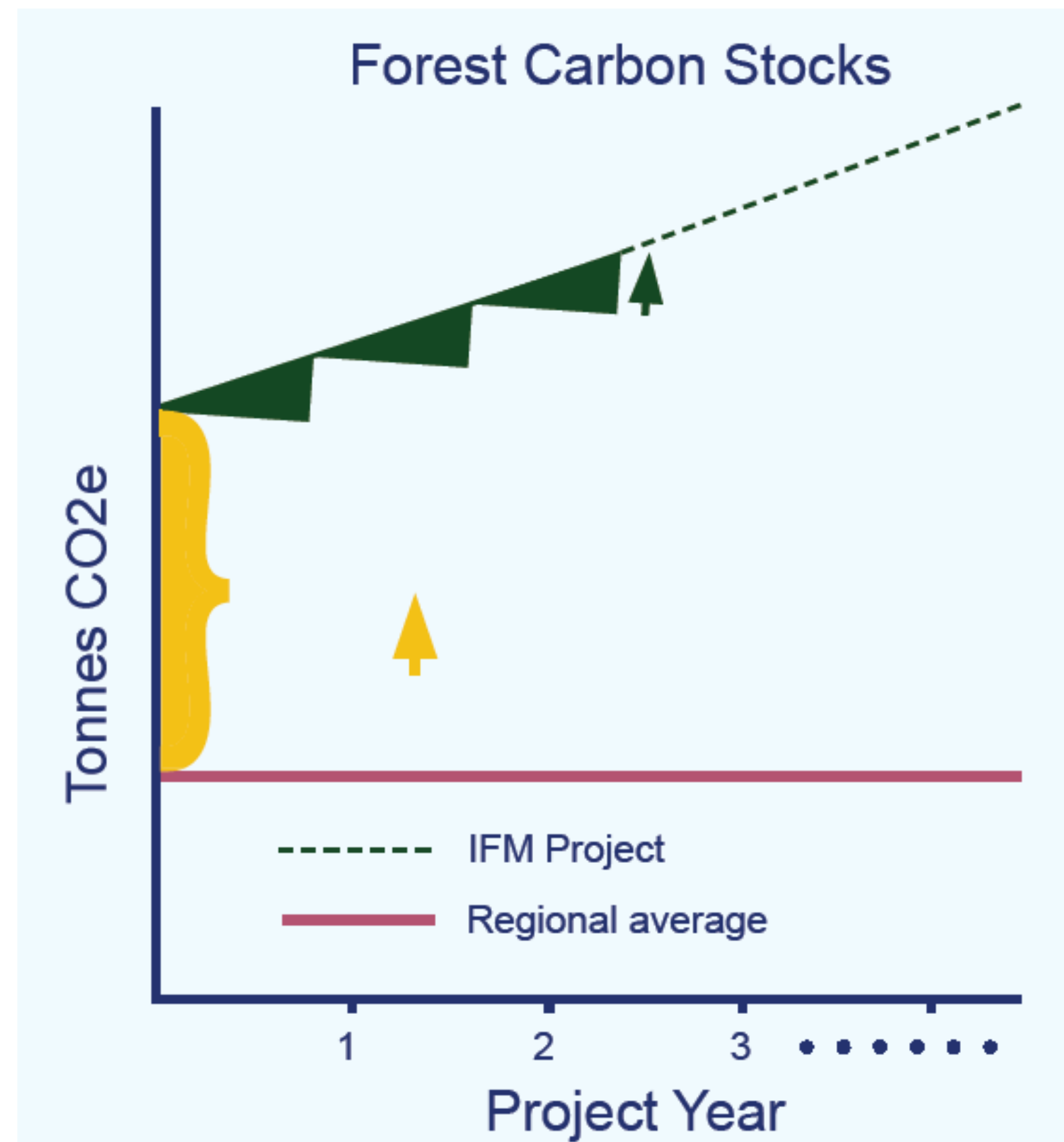


Forest Carbon Project Types

- Afforestation
- Avoided Conversion
- **Improved Forest Management (IFM)**



IFM Project Mechanics



IFM Development Process



Impacts On Management

Management Restrictions

- Harvesting should not exceed growth in any year
- No even aged harvests on contiguous areas greater than 40 acres
- No use of broadcast fertilizer
- Must maintain certification (FSC, SFI, ATFS) *or* have State/Fed/BIA approved forest management plan *or* no harvesting on an area greater than 12 contiguous acres

Important to find the optimum balance between timber harvesting and carbon revenue generation



Landowner Obligations

A compliance project must be maintained for **100 years** following final credit issuance

Monitoring

- A complete forest inventory must be updated at least every 12 years
- Monitoring documentation must be updated annually to account for harvesting, growth, or significant damage from natural disasters

Auditing

- A full verification with a site visit component must be undertaken every 6 years



Obligations Specific to Tribes

- Must sign a limited waiver of sovereign immunity
- Must obtain letter from BIA stating federal approval is not required for the tribe to participate (per 25 U.S.C. §81)



Thank You

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