USDA Partnerships for Climate-Smart Commodities

New England Climate-Smart Forest Partnership





Agenda

- 1. Framing the Opportunity
- 2. Climate-Smart Forestry: Silvicultural Approach
- 3. USDA Climate-Smart Commodities New England Partnership Project Overview
 - Project partners
 - Project elements
 - Advisory Committee
- 4. Partner Roundtable
- 5. Discussion and Q&A





Today's Speakers & Project Team

NEFF Team

- Robert Perschel | Executive Director
- Alec Giffen | Senior Forest Science & Policy Fellow
- Andrea Colnes | Deputy Director & Climate Fellow
- Jen Shakun | Bioeconomy Initiative Director
- Lisa Hayden | Outreach Director
- Catrina Vear I CSC Project Coordinator

Project Partners

- Dan Hudnut | Wagner Forest Management
- **Jeff Spiritos** | Spiritos Properties
- Richard Campbell | American Forest Foundation/FFCP
- **Ted Wright** | Trust for Conservation of North East Forests
- Tim Stout | Northam Forest Carbon





In the Climate Emergency, Forests Offer Hope

Forests are a stabilizing force for the climate. They regulate ecosystems, protect biodiversity, play an integral part in the carbon cycle, support livelihoods, and supply goods and services that can drive sustainable growth.

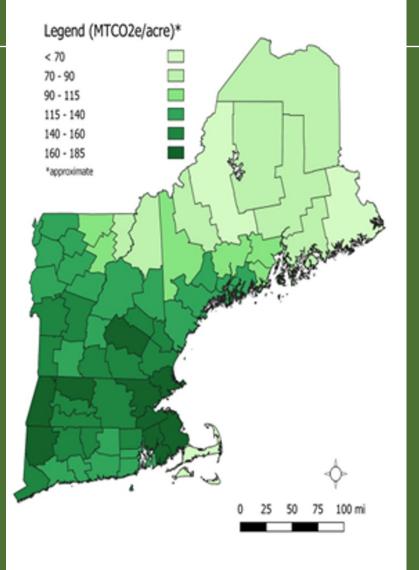
New England holds the ingredients for hope through action

- Forests can meet up to 30 percent of regional climate goals
- 31.6 billion trees
- Ground-breaking \$30 million opportunity to pilot forest-climate solutions



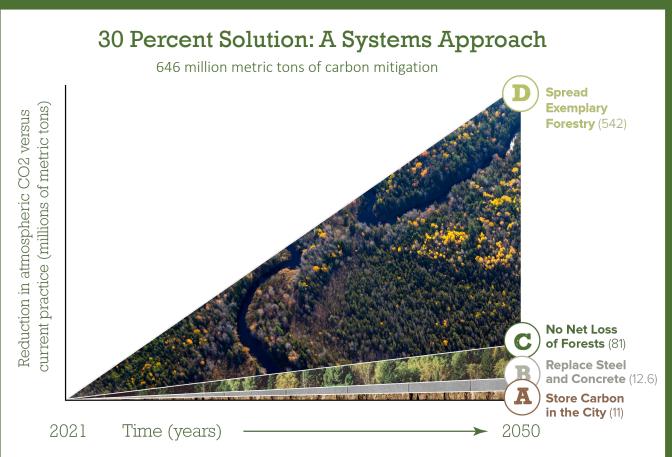
Carbon per acre of forest

(All carbon above mineral soil)





Why Did NEFF Pursue This Project?



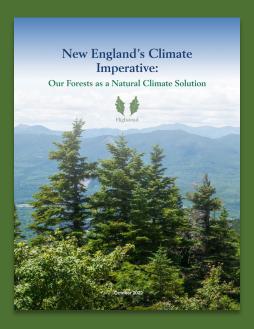




Scientific Confirmation

- Improved forest management could increase carbon storage by an estimated 488 million metric tons of CO2e (about 23% of emissions reductions for New England to reach net-zero emissions by 2050).
- New England forests could sequester at least 20% of the region's current emissions and, if states meet emissions-reduction goals, up to 97% of remaining emissions in 30 years.
- Maine's commercial forests can store up to 20% more carbon while maintaining harvest



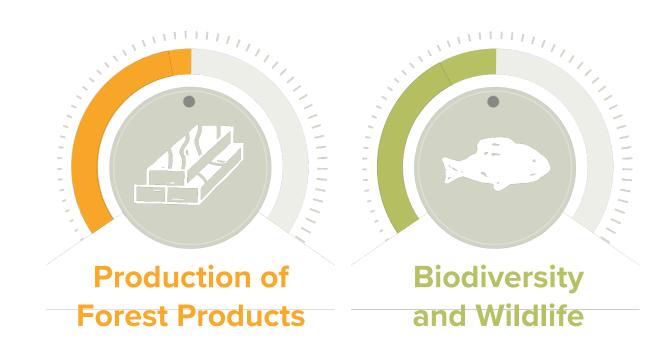












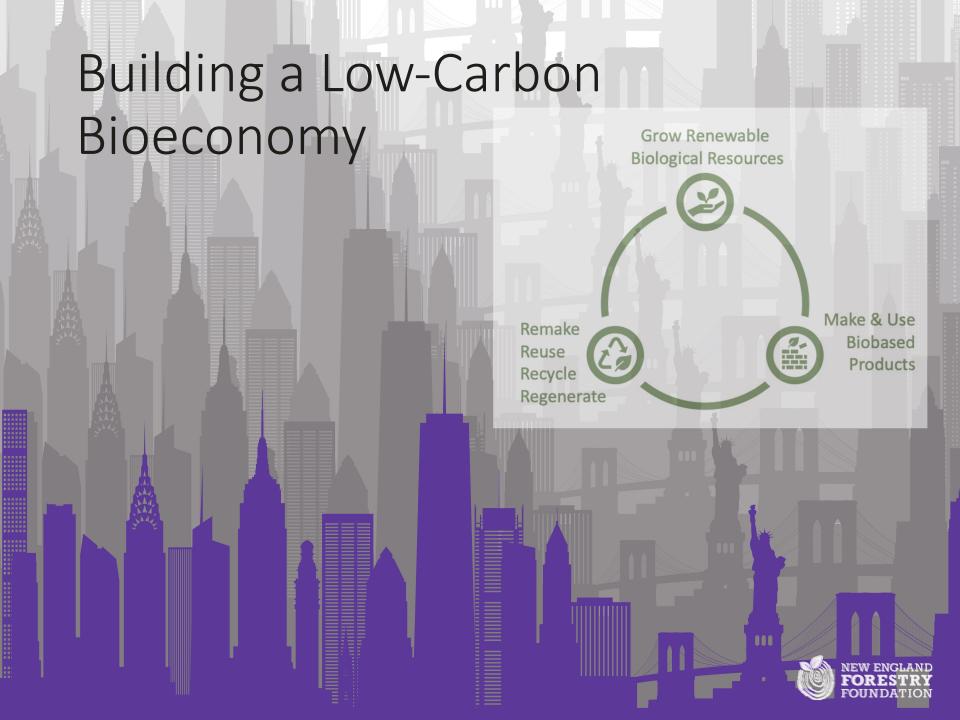




30% SOLUTION

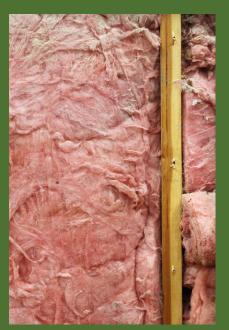
NET POSITIVE





Carbon economy





Bioeconomy





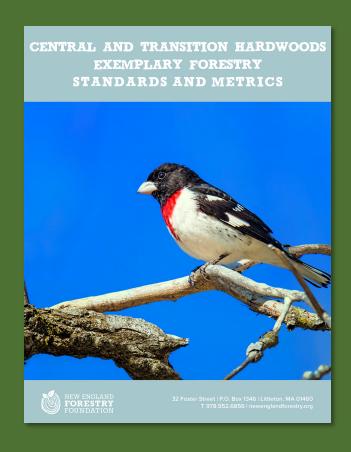


Climate-Smart Forestry: Silvicultural Approach

Climate-smart forestry applied through the program will integrate forest ecological health with the role forests play to absorb and store carbon, serving three combined outcomes:

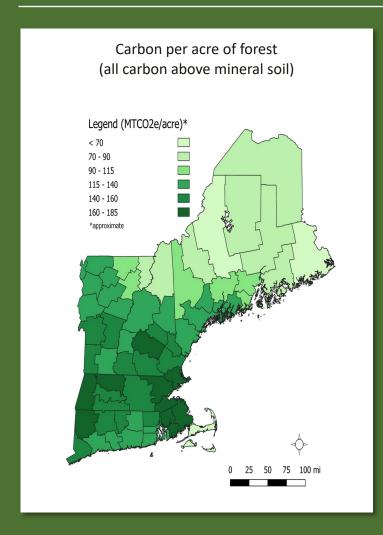
- Improved wildlife habitat and biodiversity
- Increased carbon sequestration and storage
- Harvesting more sustainably produced wood

The forestry practices applied through the program will be informed by NEFF's Exemplary Forestry standards, management standards developed for the Family Forest Carbon Program, and modeling conducted for the Forest Carbon for Commercial Landowners effort.





Major Carbon Sequestration & Storage Opportunity



Northern New England: Commodity production of pulp for bioenergy and paper has reduced average stocking and degraded many forest lands.

Southern New England: Decline of wood products industry has resulted in reduced harvests, with greater and greater carbon stocking, particularly near developed areas.

Same original stand regenerated at 40 years ago after a clearcut, on the same site within 100 yards of one another



No Treatment



Pre-Commercial Thinning 20 Years Ago



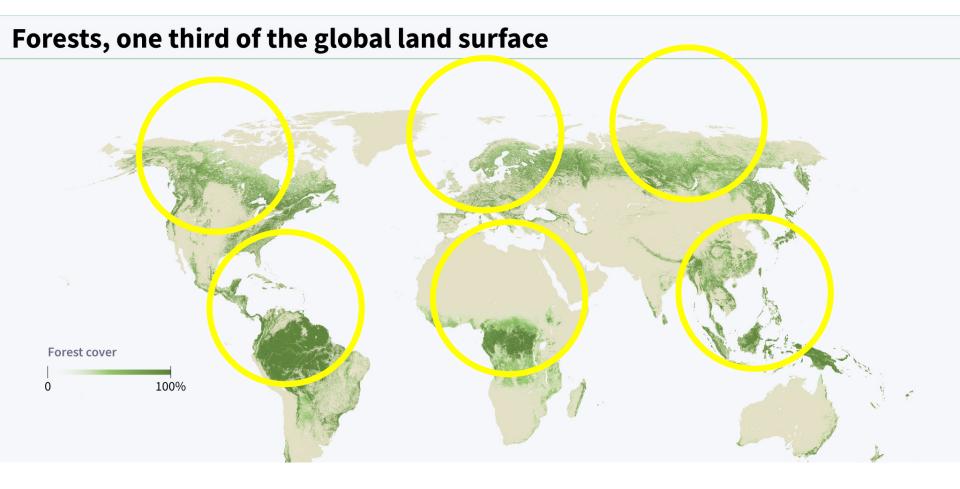
Forest Canopy Cover in the Contiguous United States







International Forest Canopy Cover



Source: Food and Agriculture Organization (FAO) of the United Nations





Program Partners



Landowners, Foresters, Loggers: Participating Producers

- Seven Islands
- Weyerhaeuser
- Wagner Forest Management, Ltd.
- Baskahegan Land Company
- Robbins Lumber
- Passamaquoddy Forestry Department
- Mi'kmaq Nation
- The Nature Conservancy (Maine lands)
- Mohawk Trail Woodlands Partnership
- Massachusetts Tree Farm Program
- Hull Forestlands, L.P.
- Heyes Family Forests LLC
- Appalachian Mountain Club

Participating Loggers & Foresters

- Professional Logging Contractors Maine
- Trust to Conserve Northeast Forestlands
- Professional foresters & loggers

University of Maine Assistance With Program Design and Implementation

- University of Maine: Dr. John Daigle, Liaison to Maine's Penobscot Nation,
 Passamaguoddy Tribe and Mi'kmag Nation
- University of Maine Advanced Structures & Composites Center
- Forest Policy & Economics School of Forest Resources
- School of Forest Resources and Climate Change Institute
- Office of Innovation and Economic Development

Monitoring, Verification & Reporting

- American Forest Foundation Family Forest Carbon Program
- Spatial Informatics Group
- Thomas Walker, Resource Economist
- Innovative Natural Resource Solutions

Commodity Markets

- Spiritos Properties, LLC (Mass Timber Developer)
- Leers Weinzapfel Associates (Architects)
- Quantified Ventures (Finance)
- WoodWorks (Mass Timber)

Supporting Organizations

- · Forest Stewards Guild
- Mass Audubon
- Our Climate Common
- Highstead Foundation
- Massachusetts Forest Alliance
- Connecticut Forest & Park Association



Partnership Advisory Committee

Advisory Committee to support project implementation and integration, and to provide expertise around key project elements.

Advisory Committee will be built around task-oriented working teams, including:

- Overall Design Team
- Silvicultural Practices Team
- Leakage Team
- Incentive Design Team
- Carbon Ownership Team
- Tribal Engagement Team
- Practice Verification Team
- Forest Products Tracking Team
- Monitoring Team
- Modeling Team
- Climate-Smart Sourcing Team
- Additional at-large members if needed





Forestry Incentives

Climate-smart forestry incentive payments of approximately \$15 million total.

Available to:

- Large and small private forestland owners
- First Nations
- Foresters & loggers

to implement uneconomic silvicultural practices that increase storage of carbon in the forest and in forest products



Carbon Benefit Quantification

- Establish baselines to predict in-forest carbon benefits following application of climate-smart practices.
- Model increases in carbon stored in wood products and substitution benefits of wood vs. other materials.
- Third-party verification of the GHG benefits.



Market Building

- Define mass timber market potential and regional climatesmart wood supply.
- Provide mass timber technical guidance framework for affordable housing market.
- Design specifications for mass timber affordable housing.
- Conduct affordable housing outreach.
- Develop climate-specific 'module' to pilot climate-smart wood sourcing criteria and supply chain tracking for existing certification programs.



From Pilot to Scale

USDA Pilot → Public/Private Funds → Implement at Scale

Build

(Design CS funding/financing)

- ➤ USDA CSC pilot program
 - Pilot CS incentives 70k acres
 - CS sourcing standards
 - GHG MRV
 - Mass timber markets
- ➤ Financial product design

Fund

(Secure funds/financing for CS incentives at scale)

- ➤ IRA, GHGRF, corporate investment
- ➤ Policy, outreach, stakeholders, communications
- ➤ Work at state, regional, national levels

Implement

(Implement at scale across NE)

- ➤ Commercial landowners
- ➤ Smaller landowners
- ➤ Loggers, foresters
- ➤ Wood products & markets
- ➤ MRV GHG outcomes
- ➤ Regional partnerships across US



Flash Comments From Partners

- Dan Hudnut | Wagner Forest Management
- **Jeff Spiritos** | Spiritos Properties
- Richard Campbell | American Forest Foundation/FFCP
- Ted Wright | Trust for Conservation of North East Forests
- Tim Stout | Northam Forest Carbon

Discussion and Q&A With Webinar Participants

Please post your questions in the chat





Participant Input to USDA

Please post your comments in the <u>Q&A Box</u> (and note question by #1, #2, #3

- 1. What excites you most about the New England Climate-Smart Forest Partnership in terms of building climate-smart markets for producers?
- 2. What are your biggest questions/concerns as the project begins?
- 3. What do you most want to learn and/or how do you hope to benefit from engagement in the Partnerships Network?



Questions for Project Team

Please post questions for the project team in the Q&A Box

Team members will address a few of the most interesting & illustrative questions (from more than 250 participants)



USDA Climate-Smart Commodities Webinar

Partnerships for Climate-Smart Commodities Projects Launch Event

WHEN: Thursday, April 27 at 11 a.m. EST

WHAT: Virtual Kick-off Event for Partnerships for Climate-Smart

Commodities Projects

WHO: USDA leadership and other invited speakers

Registration: USDA Climate-Smart Commodities website

NEFF will provide a follow-up email with USDA CSC Webinar Registration link





Remember: In the Climate Emergency, Forests Offer Hope

Private forests are climate mitigation powerhouses—the U.S. EPA Greenhouse Gas Inventory shows 84% of current carbon sequestration is happening on private forestlands.

The IPCC has made it clear that carbon dioxide removal is key to climate goals, and that forest management holds the key.

New England is positioned to lead the way on incentivizing climate-smart forestry for the future of our forests and our climate.



Thank You

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