# Michigan DNR Forest Carbon Projects

November 2022



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# Why MI DNR Carbon Projects?

#### • Executive Directive 2019-12 Responding to Climate Change

- Implement policies that advance the goals of the Paris Agreement, aiming to reduce greenhouse gas emission by at least 26-28 percent below 2005 levels by 2025.
- •Accelerate new and existing policies to reduce carbon pollution and promote clean energy deployment at the state and federal level.

#### • Executive Directive 2020-10 Building a Carbon-neutral MI

- •Achieve economy-wide carbon neutrality no later than 2050
- •Achieve a 28% reduction below 1999 levels in greenhouse gas emissions by 2025.
- •Implement Michigan Healthy Climate Plan

# Michigan Carbon Projects

Year	Acres	Hectares	Landowner	Developer	Registry	Methodology
2013	229,601	92,918	Hancock Timber	Bluesource	CAR	IFM-CAR
2016	18,816	7,615	Huron Mountain Club	Huron Mountain Club	ACR	IFM-ACR
2017	5,637	2,281	The Nature Conservancy	Bluesource	CAR	IFM-CAR
2017	44,870	18,159	Molpus Woodlands	Finite Carbon	ACR	IFM-ACR
2018	62,091	25,128	Molpus Woodlands	Finite Carbon	ACR	IFM-ACR
2019	25,935	10,496	The Nature Conservancy	Bluesource	CAR	IFM-CAR
2019	22,210	8,988	Greenleaf Timber	Bluesource	ACR	IFM-ACR
2019	16,800	6,799	Keweenaw Bay Indian Community	#334	ACR	IFM-ACR
2020	25,000	10,117	The Rohatyn Group (TRG)	Bluesource	ACR	IFM-ACR
2021	3,971	1,607	East Branch Sportsman's Club	Bluesource		
2021	32,984	13,348	Hiawatha Sportsman's Club	Finite Carbon	ACR	IFM-ACR
2021	12,658	5,123	Keweenaw Land Association	Finite Carbon	ACR	IFM-ACR
2021	100,000	40,469	Michigan DNR	Bluesource	ACR	IFM-ACR
2021	10,550	4,270	The Nature Conservancy	TNC	ACR	IFM-ACR
2021	13,500	5,463	Canada Creek Ranch	Bluesource	ACR	IFM-ACR

### **DNR State Forest Carbon Projects**

- Blue source-Michigan DNR Big Wild Forest
  Carbon Project
  - Over 101,000 acres in the Pigeon River Country
     Forest Management Unit
  - Listed with ACR in August 2020
- Bluesource-Michigan DNR Wolverine-Copper Country Forest Carbon Project

   Over 120,000 acres in the northern lower and
  - western upper peninsulas
  - Listed with ACR in December 2021

### **Big Wild Forest Carbon Project**



 Largest and most contiguous block of state forest land in northern lower peninsula – 109,000 acres

 Coined "The Big Wild" by conservationist P.S. Lovejoy for its scenic beauty and immortalized in the writing and letters of author Ernest Hemingway

The heart of Michigan's elk range

 Contains several premier cold-water trout streams, including the storied Sturgeon, Pigeon and Black rivers

• Hikers, anglers, wildlife watchers and hunters all appreciate this area for its wilderness-like feel

### Wolverine-Copper Country Carbon Project

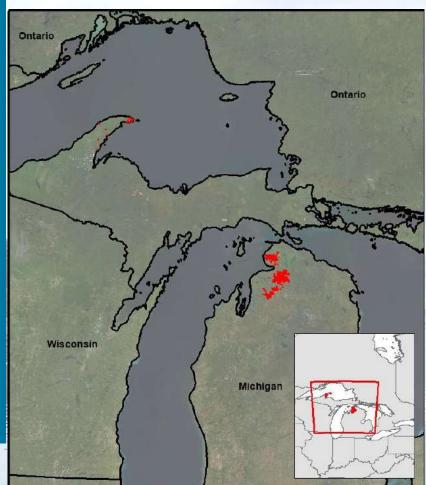
#### State forest management areas:

#### •Wolverine Moraines and Emmet Moraines (NLP)

- Includes Jordan River valley
- Over 93,000 acres of northern hardwood forest
- Heavily degraded by emerald ash borer and beech bark disease

#### Keweenaw(WUP)

- Very remote and difficult to manage
- Premier recreation use





# **DNR Request for Proposals Process**

- Request for proposals issued in March 6, 2020
- Pre-proposal call on March 17, 2020
- Bidder questions due 3/20/2020. Answers posted 3/25/2020
- RFP deadline April 30, 2021
- Evaluation of bids May 4, 2020 3 bids received:
  - The Climate Trust
  - EP Carbon/Nature Bank
  - Bluesource, LLC
- Oral presentations on May 6, 2020
- Contract awarded to Bluesource, LLC on 9/14/2020



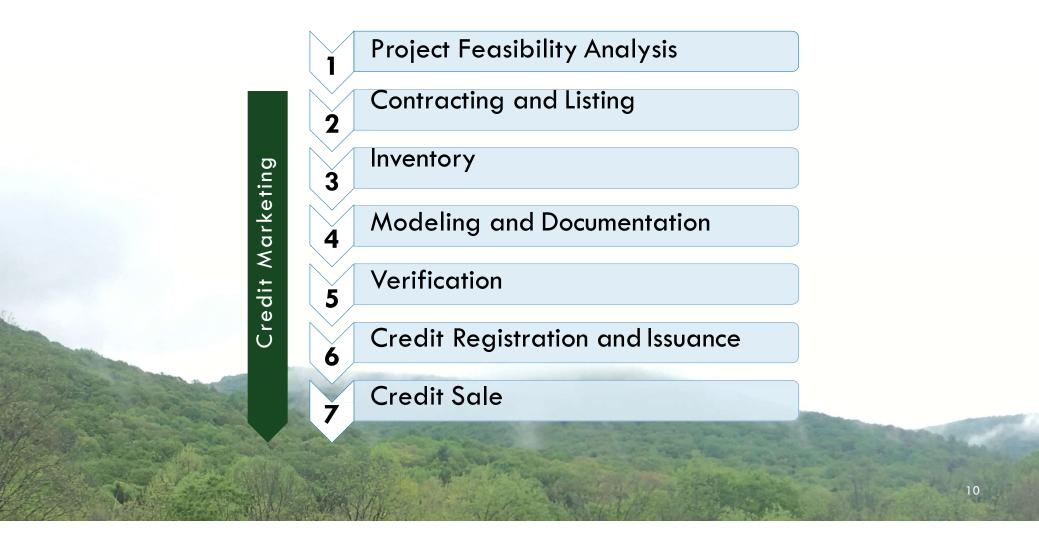
# **American Carbon Registry**

- Using The American Carbon Registry Improved Forest Management Methodology for Non-Federal U.S. Forestlands as the project registry.
- The ACR is a nonprofit enterprise, founded in 1996 as the world's first private, voluntary greenhouse gas registry.
- Focused upon certified managed forestland.
- Required carbon pools:
  - Above- and below-ground standing live wood
  - Above-ground standing dead wood (also in un-managed stands)
  - Harvested wood products
- Accounts for leakage and risk of reversal (acts of God)
- 40-year minimum project length (two 20-year crediting periods)

# About Anew Climate (Formerly Bluesource)

- Oldest and largest carbon offset developer in North America (20 years)
- 200+ projects, 20+ project types, and 150+ million tonnes of emissions reductions
- Voted Environmental Finance's Best Project Developer (North America) and Best Offset Developer (California) for five years running
- 45+ forest carbon projects under management
- Over 1 million acres of forestland enrolled in carbon projects
- Dedicated forestry team: in-house finance, marketing, and legal experts, plus 10 professional foresters with unparalleled forest carbon experience
- Purchased 29,000 acres from Lyme Timber Co in the east UP for a forest carbon project.

#### **Anew Climate Services**



### **Project Development Timeline**

Development Period (months)																		
Stage		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 Establishment of ACR Account and Project Listing																		
2 Forest Carbon Inventory																		
Inventory Sampling Design																		
Inventory Field Work																		
Data Cleaning																		
3 Credit Marketing & Contracting																		
4 Carbon Calculations																		
Project Growth and Yield Modeling																		
Baseline ScenarioModeling																		
Quantification of Carbon Offset Generation																		
5 Project Document Drafting																		
6 3rd Party Verification*																		
Project Orientation and Document Submittal																		
Site Audit																		
Responses to Verifier Questions/Findings																		
7 Registration																		
Verification Report Reviewed by Registry																		
Respond to Registry Questions/Findings																		
Credit Issuance																		
8 Credit Sales																		
Credit Delivery to Buyer																		
Payment Made to Landowner																		

Development Period(months)

\*Note - Verification begins at the conclusion of the project's one-year reporting period. This accounts for the three-month gap between the conclusion of document drafting and the commencement of verification activities.

#### Big Wild Project Development Timeline

#### COMPLETED WORK

- Establishment of CFI plots (Green Timber Consulting Foresters, Inc. Pelkie, MI)
- DTE Energy commitment to purchase the first 10-years of carbon offset credits
- Final carbon model baseline to determine the volume of credits
- Third party verification of the model by SCS Global Services
- Offset credit registration and issuance
- Sale of credits

#### NEXT STEPS

• Invoicing and DNR receipt of funds

# Wolverine-Copper Country Project Development Timeline

#### COMPLETED WORK

- Registration of project with ACR
- Establishment and measurement of CFI plots

#### NEXT STEPS

- Marketing for a buyer
- Develop carbon model baseline to determine the volume of credits
- Third party verification of the model by SCS Global Services
- Offset credit registration and issuance
- Sale of credits



# **DNR Public Outreach**

#### • Dedicated project website

- Early and sustained conversations with key stakeholder groups
  - Pigeon River Country Advisory Council
  - Timber and Forest Products Advisory Council
- Communication with native American tribes
- Virtual panel discussion on carbon offset credits
- Legislative briefs
- Press releases and other media efforts
- Many discussions with other states

### **Anew Marketing Strategy**

Develop marketing content

Portfolio development vs. single offtaker

Also selling the project co-benefits

- Largest block of contiguous undeveloped land in Michigan's Lower Peninsula
- 100-year history

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- Habitat and biodiversity conservation including unique elk herd, trout streams, caerulean sinkhole lakes, etc.
- Significant public access and community benefits



# **Marketing Result**

DTE Energy has committed to purchasing the first 10-years of carbon offset credits (1.38 million) generated by the project.
\$13,876,208 over first 10 years of the 40

• \$13,876,308 over first 10-years of the 40year project.

•First payment in FY23.



### **DTE Energy**<sup>®</sup>

### **Impacts Upon Forest Use and Values**

- Some decrease in forest management for timber production
- No impact upon public use for forest-based recreation – Camping, hunting/fishing, trail use, etc.
- Increase in forest carbon storage an ecosystem service

### **DNR Management Obligations**

- Update management plans on required schedule.
- Implement approved management plans per usual procedures.
- Annually report harvest species, volumes and shape files for completed payment units within project area.
- •Advise Bluesource of any pending and actual changes in ownership within the project area.



### Questions?