

Forest Carbon Markets

Forest carbon markets are where businesses, municipalities, and other organizations can purchase carbon credits to offset their CO_2 and other greenhouse gas emissions (GHG). A forest carbon credit is created when landowners undertake specific projects to increase their forests' ability to absorb CO_2 and store carbon. Reducing emissions of CO_2 and other GHG's can be difficult and expensive, so forest carbon markets provide these entities with an alternative to reduce their impacts on climate change. In this way, the increased CO_2 intake from forests in one location offsets CO_2 emissions in another.

How can landowners participate in a forest carbon market?

Landowners can sell their carbon credits directly through a forest carbon market, but undertaking a carbon offset project is expensive, so many landowners participate through forest carbon programs where third-party companies assist with the up-front and ongoing costs of the project in exchange for a share of the profits.

Key Attributes of Forest Carbon Projects



There are three main types of carbon offset projects that can be used to participate:

Note: The content of this publication draws heavily on several similar publications produced by the Vermont Department of Forests, Parks and Recreation.

- Avoided conversion: protecting the forest from future development to keep the carbon in the forest's trees and soils. These projects usually include the establishment of a conservation easement or the transfer of private land to public ownership.
- Afforestation, reforestation, or revegetation: growing new trees to remove CO2 from the air and store carbon. For these projects, trees are planted and/or conditions are created that will encourage the growth of trees in an area.
- **Improved forest management:** using practices that increase the amount of CO2 removed from the air and carbon stored in an existing forest. One way to do this is to limit the number of trees that are cut in the forest.

To be considered a valid carbon offset project:

- The amount of CO2 absorbed by a forest, and/or the amount of carbon it stores, must be higher than it would have been had the project never taken place;
- There cannot be a loss of forest carbon in another area (e.g., a landowner reduces the number of trees cut in one forest, but cuts more in another to compensate);
- It must have a long-term time commitment to ensure the additional CO2 absorption isn't short-lived; and
- It must be periodically checked to verify that the impact of the project continues to meet the carbon credits awarded.

Example Forest Carbon Project Development

