

# Carbon and Climate Change

November 2023

Mosaic Forest Management is a timberlands management company passionate about sustainable forestry. Our commitment to environmental stewardship is unwavering and is at the heart of our business.

One key aspect of sustainable forest management is the consideration of current and potential impacts on the forest landscape due to climate change, which is generally defined as the *long-term shifts in temperature and weather patterns*. Some climate change occurs naturally, but human activity over the last several hundred years has significantly increased its effects.

Forests and forest products play a key role in the fight against climate change. Across our private and tenured lands, more than 650 million trees are storing and capturing carbon. Upon maturity, trees in our managed forests are converted into products like lumber, flooring and furniture, which locks in the store of carbon. Through reforestation the cycle starts again—storing and capturing carbon. Wood products generate substantial benefits in the fight against climate change,



## DID YOU KNOW?

Mosaic produces its own seeds for reforestation to ensure our future forests have optimal genetic quality. Since 1979, our seed orchard in Saanich has produced enough seed for over 300 million seedlings!

particularly when compared to non-renewable building materials.

### Mosaic's Climate Solutions Strategy

Mosaic has developed a climate solutions strategy to help guide our forest management planning and activities that is consistent with the Climate Smart Forestry objectives of the SFI® Forest Management Standard. *Mitigation* and *adaptation* are the primary focus areas of our strategy and are divided into five key categories:

#### 1. Operational

- >> Reductions across the supply chain including the use of electric fleet vehicles and in the future, logging trucks
- >> Preventing carbon emissions from wildfire by ensuring prompt response to wildfires in our forests through our dedicated forest protection team and collaborative agreements with neighbors and the Ministry of Forests

#### 2. Biomass

- >> Continuously reducing our residual debris through the use of on-site chipping methods and greater utilization of small logs to reduce waste

#### 3. Carbon Storage in Old Forests

- >> Conserving old forests on 40,000 hectares of our private timberlands on Vancouver Island and Haida Gwaii, providing valuable carbon sinks that will store and remove carbon dioxide from the atmosphere

#### 4. Weather Monitoring & Prediction Tools

- >> Working closely with colleagues, communities and experts to generate localized climate modeling
- >> Analysing weather patterns and conditions to guide strategic and operational planning

#### 5. Reforestation & Silviculture

- >> Promptly reforesting our harvested areas with ecologically suitable and climate resilient seedlings and carefully monitoring their progress

## Tracking Mosaic's Carbon Footprint

Mosaic is committed to measuring its carbon balance transparently and scientifically. Our science-based target is to be net-zero by 2035 across our operations and to become a positive sequestration business.

- >> 2016: Our carbon accounting journey begins when our carbon footprint is measured & modeled across our supply chain, from seed to customer
- >> 2018: Mosaic commits to expanding our certification of our Scope 1, 2 and selected Scope 3 carbon footprint with the Carbon Trust
- >> 2021+: Improved annual carbon accounting technology resulting in enhanced accuracy, reporting and reduction of emissions

Mosaic reduces its operational emissions and increases carbon removal in several ways including:

- >> Transitioning to electric vehicles
- >> Managing our hauling fleet through centralized dispatch
- >> Reducing pile burning through improved fibre utilization and chipping
- >> Maximizing the use of biosolids for removal of carbon and storage in soils
- >> Improved genetic seedlings and silviculture practices that increase carbon removals

## Carbon Credits

In 2022, Mosaic introduced its BigCoast Forest Climate Initiative, which commits to conserving nearly 40,000 gross hectares (100,000 acres) of private land through Coastal British Columbia. The initiative is the largest of its kind in Canada and will conserve some of British Columbia's oldest trees, sensitive ecosystems, wildlife habitats and drinking watersheds. It will also conserve lands that hold cultural significance to Coastal First Nations. Visit [BigCoastForest.com](http://BigCoastForest.com) to learn more.

Key benefits:

- >> Conserving these unique ecosystems is anticipated to allow for the capture and storage of more than 20 million tonnes of CO<sub>2</sub>e (all greenhouse gases (GHG) that contribute to global warming)
- >> Mosaic is able to sell the carbon credits generated to voluntary market participants that have committed to net-zero goals and other sustainability initiatives

>> Old forests (120 years and older), ecologically significant areas, and culturally important areas are included in the forest carbon project. Ecosystem protection is achieved through the conversion of industrial forest to protected forest, increasing carbon retention and avoiding future greenhouse gas emissions from harvesting operations

>> Mosaic has committed to share a portion of the proceeds with the Pacific Salmon Foundation and the Indigenous Protected and Conserved Areas Innovation Program to support scientific and First Nations cultural research on and around the project lands



**BIGCOAST**  
**FOREST**  
CLIMATE INITIATIVE