



Reducing Landfill Emissions with Woody Biomass Sequestration



MnCIFA FINANCING:

\$500K loan

with 5-year term

carba™

PURPOSE

To reduce landfill emissions, this loan financed the first pyrolysis reactor that converts woody biomass from a compost facility in Burnsville into biocarbon (charcoal), which is then used as landfill cover, then buried to ensure long-term carbon sequestration.

REDUCING LANDFILL EMISSIONS

Carba is an early-stage startup using innovative, autothermal design in its pyrolysis reactor:

- Unique reactor design is portable, scalable and far more energy efficient than alternatives.
- Total cost for first reactor: \$2.49M.
- MnCIFA's \$500K loan is serving as a catalyst to draw in additional private investors and loans.

Key project partners:

- Burnsville Sanitary Landfill: Using Carba's biocarbon for daily landfill cover, which is subsequently buried.
- Microsoft: Carba signed a 5-year agreement with Microsoft for 44,000 tons of carbon off-take.

ABOUT CARBA, INC.

- Cofounders: Carba CEO Andrew J. Jones, PhD, and Paul Dauenhauer, PhD, Carba senior advisor and Jones' former professor at the University of Minnesota Chemical Engineering and Material Science Department.
- Additional project funding: \$7M DOE grant, \$1.9M Program-Related Investment (PRI) by Schmidt Family and other foundations
- Shakopee Mdewakanton Sioux Community has a \$500K Simple Agreement for Future Equity (SAFE) agreement with Carba to plan a project with their Tribal community
- In December 2025, Carba closed on \$6M Seed Round led by Rusheen Capital Management, demonstrating the value of MnCIFA's financing to help draw in additional investors.