

Standard Biocarbon

An Efficiency Maine Case Study

Standard Biocarbon recently completed construction of a cutting-edge biocarbon production facility in Enfield, Maine. Using pyrolysis, a process that heats biomass in the absence of oxygen, the facility produces biochar, a carbon-rich material used to improve soil health and support environmental remediation. A critical step in the process is drying the biomass before pyrolysis, which typically requires significant energy input.

To increase energy efficiency and reduce fossil fuel reliance, Standard Biocarbon evaluated two biomass drying options: a basic propane-fired system or a more advanced heat recovery dryer that could capture and reuse waste heat from the pyrolysis process. With support from Efficiency Maine's Custom Program, the company was able to choose the high-efficiency option. A \$367,000 incentive from Efficiency Maine made the investment more feasible.



Heat Recovery Dryer

This project is a strong example of how innovative, high-efficiency equipment can lead to meaningful energy savings. The heat recovery dryer is expected to save nearly \$30,000 in energy costs annually. Material drying is often an energy-intensive process, and this installation highlights how Efficiency Maine's Custom Program can help businesses implement energy-saving technologies tailored to their specialized operations.