



The *Maison de nos Aïeux* house

in Sainte-Famille on île d'Orléans



▲ A successful marriage between past and present!

The Fondation François-Lamy, owner of the *Maison de nos Aïeux* (house of our forebears) in Sainte-Famille on île d'Orléans, has met the challenge of putting in a heating system that is both economical and ecological after deciding to replace its antiquated oil-fired boiler with one that burns wood pellets. Rapidly rising heating costs for this heritage home built in 1888, and the advanced age of the boiler installed in 1895, prompted Foundation officials to acquire a wood pellet heating system. The 32-kW ÖkoFEN Pellematic boiler can now heat the house's 416 square metres of living space for half the previous cost. A five-tonne hopper called a FlexiTank delivers the pellets to the boiler with an auger combined with a suction system. A sensor sends an e-mail to the manager's office when it's time to refill the hopper. All the house's hot-water heating pipes were kept, therefore contributing to lower costs compared with other options.

The boiler's high-performance ECO-system™ combustion technology is based on a volcano combustion chamber that offers very high combustion stability. Associated with a flame sensor and negative pressure control, the volcano combustion chamber is located in the center of a circular heating current for optimal exchange of heat. Combustion requires less permanent correction and offers high performance while ensuring clean fumes. What is more, even the ashes are recovered and used to fertilize plants at the *Parc des Ancêtres-de-l'île-d'Orléans* (local park)!





▲ Wood pellets: A renewable energy option

In Québec, the main source of raw material (sawdust, wood shavings and chips) for making the pellets comes from wood processing. These industry by-products are reclaimed and compressed uniformly to ensure a consistent quality product.

The manufacturing processes introduced by Québec wood pellet producers guarantee that the final product meets the highest quality standards, without adding glue or binders. The result is a standardized fuel, with low moisture content and excellent heat performance, which can be used in residential wood stoves or in multi-residential, commercial, industrial or institutional boilers, as is the case with the *Maison de nos Aïeux*.

Opting for wood pellets from Québec is opting for an alternative solution to fossil fuels, which helps fight climate change. It is also opting to stop the consumption of non-renewable and polluting fuel and contribute to lowering greenhouse gas emissions. With its small environmental footprint when it comes to the emission of fine and polluting particles, wood pellet heating represents a sustainable solution for all heating needs.

At a time when people are concerned about energy efficiency and reduction of CO₂ emissions, the use of pellets offers tremendous potential, regardless of the sector. In short, wood pellet heating not only offers excellent calorific, economic and environmental performance, but also contributes to Québec's regional development.



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Guidance: **RésoMASS**
Distribution and service: **LS Énergie**
Installation: **Michel Latulippe inc., plumbing and heating**
Pellet supply: **RésoMASS/Coopérative forestière de Girardville**
Photos: **PhotoMAG** and **Fondation François-Lamy**

Despite no conversion grant, the savings will provide a great return on investment period and free up funds for other projects.