

## Edmonton's Alternative Fuels Project

## **Project Details**

Location:Edmonton,



**Timeline:** 2023-2024

(m<sup>3</sup>

**Volume:** 3,881 m<sup>3</sup>

Alberta Canada

## Concrete's Sustainability Contribution:

Heidelberg Materials supplied low carbon concrete for the Alternative Fuels Project at our cement plant in Edmonton, Alberta. This project will increase the use of lower CO₂ fuels, saving up to 50 kg of CO₂ per ton of produced cement. The plant required a more environmentally friendly option for its concrete needs, so we worked with the contractor to supply a mix with a low GWP that saved time and money. Utilizing EcoCemPLUS cement, Edmonton's concrete division delivered a Bronze EvoBuild<sup>™</sup> Low Carbon Concrete solution. Giatec SmartRock® maturity monitors were used to track strength gains, accelerating the project schedule. EvoBuild<sup>™</sup> concrete was supplied, reducing CO₂ for the concrete scope by nearly 40%. The SmartRock® sensors successfully demonstrated superior strength development in the EvoBuild<sup>™</sup> mixes compared to traditional alternatives.



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EvoBuild<sup>™</sup> Low Carbon Concrete can help lower the carbon footprint of your project without compromising performance. Available for a broad variety of applications, our product range consists of EvoBuild<sup>™</sup> Bronze, EvoBuild<sup>™</sup> Silver, EvoBuild<sup>™</sup> Gold and EvoBuild<sup>™</sup> Zero. This range considers all of your specific targets, timelines and budget needs, ensuring there is a sustainable solution for your project.

More importantly, these solutions are stackable, meaning carbon savings can add up to different levels, as required to meet your project goals. Carbon savings can vary depending on performance requirements, haul distances, and energy use at the manufacturing facility related to local climatic conditions. However, when measured against national industry average Environmental Product Declaration (EPD)\* values, our EvoBuild™ concrete mixes provide significant carbon savings for your project. These savings are supported by mix-specific, third-party verified EPDs which provide transparent and comparable information about the life cycle impact of our building materials.