

Zug, July 25, 2019

## LafargeHolcim launches carbon capture project in Canada

LafargeHolcim is increasing its efforts to further improve the carbon-efficiency of its cements with the launch of the CO<sub>2</sub>MENT project in Canada. The objective is to build the world's first full-cycle solution to capture and reuse CO<sub>2</sub> from a cement plant while also reducing greenhouse gas emissions. The project is a partnership between Lafarge Canada, Inventys and Total.

Over the next four years, Project CO<sub>2</sub>MENT will demonstrate and evaluate Inventys' CO<sub>2</sub> Capture System and a selection of LafargeHolcim's carbon utilization technologies such as curing and upcycling at its Richmond, British Columbia, Canada cement plant. The project has three phases and is expected to be fully operational by the end of 2020. Subject to the pilot's success, the vision is to scale up the project and explore how the facility can be replicated across other LafargeHolcim plants.

During the first phase the partners will work on purifying the cement flue gas in preparation for CO<sub>2</sub> capture. The second phase will focus on the separation of CO<sub>2</sub> from flue gas using a customized for cement version of Inventys' carbon capture technology at pilot scale. As part of the final phase, the captured CO<sub>2</sub> will be prepared for reuse and support the economical assessment and demonstration of CO<sub>2</sub> conversion technologies onsite, such as CO<sub>2</sub> injected concrete and fly ash.

Apart from increasing its focus on new innovative breakthrough solutions such as the CO<sub>2</sub>MENT project, LafargeHolcim is also further investing into measures to reduce the clinker-to-cement ratio and consume less energy per tonne of cement by using lower carbon fuels and improving the efficiency of the company's processes. At its Richmond plant, the company recently launched a new and improved lower carbon fuel (LCF) system to reduce greenhouse gas emissions associated with the production of cement. It will also help minimize landfill waste; specifically, non-recyclable plastics that are creating a backlog for municipalities across Canada.

The CAD 28 million system is expected to replace up to 50 per cent of fossil fuel use with lower carbon fuels and could result in a 20 per cent reduction of combustion emissions. It also allows Lafarge Canada to divert approximately 100,000 tonnes per year of waste from local landfills, the equivalent of about 8,300 loaded garbage trucks.

René Thibault, Region Head North America: "LafargeHolcim is committed to reducing CO<sub>2</sub> emissions and we are excited to join forces with Inventys and Total through Project CO<sub>2</sub>MENT. We hope to discover ways to capture emissions from our production processes and reuse them in our products, advancing a circular economy even further than today."

The recent launch of the new LCF system at our Richmond plant aims to make the facility the most carbon efficient cement plant in Canada. Our investment alongside funding support from the British Columbia Ministry of Environment and Climate Change Strategy has made the system economically viable and demonstrates a long term commitment to the environment as well as the British Columbia cement market."

LafargeHolcim cement is already among the most carbon efficient in the world. Since 1990, the company has reduced its net carbon emissions per tonne of cement by 25 percent, making LafargeHolcim the leader of international cement companies, with the highest reduction compared to

the 1990 baseline. Canada will be pushing to reduce its carbon footprint even further through expanded lower carbon fuels, growth in supplementary cementitious materials and energy efficiency initiatives.



*Richmond Cement Plant*

## **About LafargeHolcim**

LafargeHolcim is the global leader in building materials and solutions. We are active in four business segments: Cement, Aggregates, Ready-Mix Concrete and Solutions & Products.

With leading positions in all regions of the world and a balanced portfolio between developing and mature markets, LafargeHolcim offers a broad range of high-quality building materials and solutions. LafargeHolcim experts solve the challenges that customers face around the world, whether they are building individual homes or major infrastructure projects. Demand for LafargeHolcim materials and solutions is driven by global population growth, urbanization, improved living standards and sustainable construction. Around 75,000 people work for the company in around 80 countries.

More information is available on [www.lafargeholcim.com](http://www.lafargeholcim.com)  
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## **About Inventys**

Inventys Thermal Technologies Inc., headquartered in Vancouver, BC, Canada, is a leading carbontech company with a vision to be a global leader in building a CO<sub>2</sub> marketplace and enable the mass market for bulk distributed CO<sub>2</sub> supply by being a focused low-cost supplier. Inventys is working to create new market spaces by leveraging its breakthrough carbon capture technology. For more information, please visit [www.inventysinc.com](http://www.inventysinc.com)

## **About Total**

Total is a major energy player that produces and markets fuels, natural gas and low-carbon electricity. Our 100,000 employees are committed to better energy that is safer, more affordable, cleaner and accessible to as many people as possible. Active in more than 130 countries, our ambition is to become the responsible energy major.

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