



THE
**Concrete
Connection**

WINTER
2017

LAFARGE
BROOKFIELD

HAPPY HOLIDAYS

On behalf of our management team and employees, I'd like to wish you a joyous and safe holiday season and a New Year filled with peace and happiness.

Fred Bolduc, Plant Manager



BROOKFIELD PLANT UPDATE

We are in the process of reconstituting a Community Liaison Committee composed of local area residents.

This advisory body will provide constructive and productive input from the community on matters regarding operations or approvals/permits that have, or are perceived to have, environmental, social or economic impact.

The Committee's first subject for consideration will be the safe and successful implementation of the Plant's pilot project to assess tire-derived fuel (TDF) and to advise the research team on questions of concerns to the community.

Interested in joining or learning more about the Committee? Please contact our plant manager Fred Bolduc at frederic.bolduc@lafargeholcim.com by Friday, December 15.

LAFARGE BROOKFIELD HELPS PROVIDE BETTER INTERNET FOR SHORTTS LAKE COMMUNITY

Did you know that the top of our silos are used to host internet communication equipment necessary to connect the neighbourhood to the internet tower and re-transmit to the Shortts Lake receiver?

The first Wireless Internet build project started two years ago in collaboration with NCS-Network to ensure better connectivity and speed for residents along Highway 215 - Shortts Lake, Brookfield, Stewiacke, Shubenacadie.

We are currently working with NCS to upgrade the system to "gigabits bandwidth", which means that more of our neighbours will be able to enjoy a faster internet service. With high speed internet, residents can stream Netflix with no buffer time, make clear Skype calls with no delays, and email/receive large files such as videos or pictures without issue.



CLIMATE CHANGE AND LAFARGE'S BROOKFIELD PLANT

Greenhouse gas emissions are making the planet hotter and ambitious decarbonization is needed to keep global temperature rise to less than two degrees.

We have committed to reducing our carbon emissions per tonne of cement by 40% over 1990 levels. This is why the lower carbon fuel (scrap tire) project at Brookfield is so important.

Estimates indicate carbon emissions will be 30% lower for every tonne of coal replaced with scrap tires. This will be measured during the 1-year proposed pilot project.

The plant has already successfully achieved a 30-35% replacement of fossil fuels with lower carbon fuels. The use of scrap tires, subject to successful pilot testing, will increase this to 50%.

NEW CONTINUOUS EMISSION MONITORING SYSTEMS INSTALLED

This fall, we installed new Continuous Emission Monitoring Systems (CEMS) at the plant.

Minute by minute, these analyzers are now measuring concentrations of Sulphur Dioxide, Oxides of Nitrogen (often referred to as NOx), Carbon Monoxide, Carbon Dioxide, Oxygen, and Hydrocarbons, in addition to existing process measurements such as opacity, temperatures, and flow rates.

This \$830,000 investment will enable Dr. Gibson and his Dalhousie University team to establish the baseline plant emission performance in preparation for a thorough analysis of scrap tire use as fuel in 2018. Additionally, the plant team will be able to better optimize the cement making process.

During the proposed 1-year tire pilot project, these systems will garner the scientific evidence needed to assure ourselves, Nova Scotia Environment, and the community that the use of scrap tires in place of coal is not only safe but will also measure environmental benefits expected here, just as seen in Europe and the U.S.



FREQUENTLY ASKED QUESTIONS



Q: Is there any life-cycle assessment that supports your claim that using tires as low-carbon fuel will lower CO2 emissions?

A: Multiple life-cycle assessments point to benefits of using scrap tires in cement kilns. These benefits are typically better than other recovery strategies.

A peer-reviewed paper, published in 2011 in the Clean Technology and Environmental Policy Journal (and available online at www.lafargebrookfield.ca), reports the following:

“The use of scrap tires for fuel in cement plants provides more reductions in most environmental impact categories compared to other scrap tire applications, excluding application in artificial turf.”

The Dalhousie University project team will conduct a life-cycle assessment in Nova Scotia/Atlantic Canada to assess various scrap tire management strategies.

For more frequently asked questions, visit our website www.lafargebrookfield.ca. Can't find an answer to your question? Send an email to our plant manager, Fred Bolduc at: frederic.bolduc@lafargeholcim.com



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