



Portfolio Company Update

17th June 2024

A WORLD FIRST:

Wind Turbine Foundation Made Exclusively of Clinker-free Decarbonated Concrete

33 TONNES OF CO2 SAVED PER TURBINE

Portfolio holding Hoffmann Green have partnered with the VALOREM Group to recently announce the pouring of a wind turbine foundation using 630m³ of 0% clinker decarbonated concrete.

The new innovative process will release 33 tonnes of CO₂ emissions less with every turbine, resulting in a saving of 32% while significantly, requiring no change in the construction method.

The cement has been used on the site of the Plaine des Moulins wind farm in Jazeneuil, France, to erect 5 wind turbines with a total installed capacity of 18 MW, and will generate around 42 GWh of green electricity, the equivalent of approximately 3,500 homes' electricity use for one year, according to the U.S. Environmental Protection Agency.



Cement is the main factor responsible for the greenhouse gas emissions during the manufacture of concrete. This is due to the production of clinker, a highly intensive process involving quarrying, transport, fossil fuel firing and grinding. Clinker occurs as small lumps or nodules, usually 3 to 25mm in diameter and requires high temperatures to bond.



Hoffmann Green have developed the clinker-free cement which involves cold chemical reactions between materials by means of activators, rather than fossil fuel firing used in traditional clinker cement.

The project required five years of testing and collaboration among various technical partners to assess the performance, durability and safety of the cement. It has been described as a 'key milestone' for Hoffmann Green, and demonstrates a significant innovation in reducing the carbon footprint of wind energy infrastructure.

About Hoffmann Green Cement

Hoffmann Green Cement Technologies designs, produces and distributes innovative extremely low-carbon cements – with a carbon footprint 5 times lower than traditional cement – that present, at equivalent dosage and with no alteration to the concrete manufacturing process, superior performances than traditional cement. Hoffmann Green is currently held in the portfolios.

About VALOREM Group

The VALOREM Group is a pioneering independent producer of green energy in France, with expertise in the entire process of harnessing renewable energies, from development to operation and maintenance, including project management, construction and auditing services. VALOREM Group is not held in the current portfolios.

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