BUILDING FOR LIFE

Press release

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BOUYGUES CONSTRUCTION AND ECOCEM ANNOUNCE A GLOBAL PARTNERSHIP TO REDUCE THE CONSTRUCTION INDUSTRY'S CARBON IMPACT USING ACT, ECOCEM'S SCALABLE LOW-CARBON CEMENT TECHNOLOGY.

Bouygues Construction, a leading global construction company, and Ecocem, Europe's independent leader in low-carbon cement technologies, have signed a global innovation partnership involving ACT, Ecocem's scalable low-carbon cement technology.

This partnership marks a pivotal step in their shared commitment to significantly reducing the carbon footprint of construction projects.

Following thorough laboratory and rigorous full-scale testing by Bouygues Construction's R&D and Innovation team in collaboration with Ecocem, the goal is to advocate and facilitate the use of Ecocem's ACT cement technology in Bouygues Construction's projects.

The partnership is focused on three key areas designed to independently test, evaluate and validate Ecocem's ACT technology:

- **Laboratory testing:** Bouygues Construction will conduct a comprehensive testing program at its COFRAC (French Committee for Accreditation) accredited Materials Engineering Lab (*Laboratoire Ingénierie Matériaux*) to evaluate the performance of ACT technology under laboratory conditions.

- **Initial full scale field testing:** Structural concrete walls will be built at Bouygues Construction's Scale One® facilities in Chilly-Mazarin, France, during both winter and summer conditions, starting in early 2025. The walls will be monitored using instrumentation to ensure thorough testing on all aspects of preparation, handling, pouring, maturity measurements, and early formwork removal of the concrete. The process will be overseen by Bouygues Construction's on-site production team and the Materials Engineering Lab.

- **Full-scale mock-up construction:** After successful initial full-scale field testing, a full-scale model, including all structural components (slabs, walls, columns, beams), will be constructed by Scale One® under typical site conditions. This will allow for full evaluation of the in-situ use of ACT technology, in parallel with the ACT technology certification process by Ecocem.

Commenting on the partnership:

Edward Woods, Head of R&D and Innovation at Bouygues Construction said "At Bouygues Construction, our focus is on "Building for Life", and essential to that is the need to address the critical imperatives of the environmental transition. We are committed to making construction sustainable and less resource-intensive. Any low carbon solution deployed by Bouygues Construction must deliver the required concrete performance, using standard working practice, and must be globally scalable and cost efficient. Together with Ecocem, we share a focus on and commitment to innovation and finding scalable solutions that drive down emissions at speed. Validating ACT technology in a variety of applications and conditions, with the ambition of incorporating it into our projects is an integral part of Bouygues Construction's R&D and Innovation team's remit in tandem with Bouygues Construction's Procurement department."

Conor O'Riain, Ecocem's Managing Director for Europe said "This commitment to validating Ecocem's ACT technology by a major player like Bouygues Construction marks a decisive turning point in the decarbonization of the construction sector. This partnership will demonstrate that scalable, cost-effective solutions to drastically reduce the carbon footprint of concrete are ready for large-scale deployment.
As the construction sector accelerates its environmental transition, speed, scale and cost efficiency are what matters. This collaboration highlights the convergence of technological innovation and climate commitment and will create an immediate and measurable impact on CO_2 emissions."

Learn more about ACT Technology
Developed over nearly a decade of intensive research, ACT represents a major advancement in cement manufacturing. It enables a 70% reduction in CO2 emissions compared to the European average for cement. ACT delivers this result by maximising the use of locally available alternative materials, known as Supplementary Cementitious Materials (SCMs), while delivering all the performance characteristics required of any concrete it is used to make – namely durability, workability and strength and cost-
Performance. ACT is a propriety technology which uses a specific blend of mineral, and some chemical admixtures combined with a particular particle size distribution design. It can be produced at almost all existing cement plants without significant investment or modifications and requires no change to working practices on the job site.

Learn more about Scale One®
Bouygues Construction's Scale One® is an innovative facility designed to accelerate the environmental and digital transformation of the construction industry. Located in Chilly-Mazarin, near Paris, Scale One® provides a space where new construction materials, equipment, methods, and technologies can be tested under real-life conditions
The facility features test zones, a works team, and storage facilities, allowing innovators to validate new solutions more quickly. It includes roughly 2,500 m^2 of testing, coworking, and creative spaces, encouraging collaboration among companies, academics, and research institutes. This initiative aims to promote rapid change in the construction industry by fostering innovation, research, and training. This project is oc-financed by the Île-de-France Region and the French government as part of the France 2030 Program.

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About Bouygues Construction

Bouygues Construction employs 32,500 people around the world, all driven by a single ambition: building for life. In more than 50 countries, we improve daily life for millions of people by creating sustainable infrastructures and buildings that serve life and address all our needs: housing, healthcare, education, work, entertainment, mobility, contribution to low-carbon energy production, natural resources management, etc. At every stage of a project, we put all our expertise and our experience into designing, renovation and building differently so that we can meet the critical imperatives of the environmental transition and achieve construction that is sustainable and less resource-intensive. Every day, we make sure that everyone is safe, and that human rights and ethical standards are respected. Committed to strong values, the men and women of Bouygues Construction work passionately alongside their customers and partners so that our footprint becomes more positive. In 2023, Bouygues Construction generated sales of €9,8 billion.

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About Ecocem

Ecocem is a pioneer in high-performance technologies that significantly reduce CO2 emissions in the cement and construction sectors. Our mission is to build a sustainable future by leading the way with low carbon cement technology. For more than 20 years, Ecocem has been developing, manufacturing, and supplying low carbon cement and construction solutions to markets in Europe. Operating factories in France, the Netherlands, and Ireland, Ecocem produces over 2 million tons of low-carbon cement annually. To date, Ecocem has reduced CO2 emissions by over 18 million tons through projects such as the Grand Paris Express, the athletes' village for the Paris Olympics, the Aviva Stadium in Dublin, and the HS2 high-speed rail line in the UK.

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