Princess Elisabeth Island: the last 2025 caisson installed at sea

In September, the last caisson of 2025 for the Princess Elisabeth Island was installed in the North Sea. The operations involved a team of over 300 people and a fleet of 15 specialised vessels. The caissons, which are massive concrete structures weighing up to 22,000 tonnes, will form the outer walls of the world's first energy island. Preparations for the next phase are already under way, with offshore activities expected to resume in spring 2026, weather permitting. Once completed, the island, located 45 km off the Belgian coast, will connect offshore wind farms and will be able to serve as an energy hub for interconnectors. The project is being carried out by Elia Transmission Belgium, the project owner, in collaboration with TM Edison - a consortium led by DEME Group and Jan De Nul Group - as the contractor.

Watch the video

2025 CRM auction results: security of supply guaranteed for winter 2026–2027

Elia organised three capacity remuneration mechanism (CRM) auctions simultaneously for the first time: Y-1, Y-2, and Y-4. These coordinated auctions have ensured full security of supply for winter 2026–2027, while also laying solid foundations for subsequent delivery years. All three auctions – each with its own focus and time horizon – ran smoothly and to schedule. A total of 4,556 MW was contracted for 2026–2027, at significantly reduced cost, while 2,177 MW was contracted for 2027–2028.

Read the press release

Ventilus: public consultation taking place from 8 November to 7 December

The Ventilus project consists of a new high-voltage line from Zeebrugge to Avelgem. This will be vital for bringing new wind power generated in the North Sea onshore, while also reinforcing the electricity grid to ensure security of supply and support the further industrial development of West Flanders. The public consultation follows Elia's submission of the environmental permit applications, which were declared complete and admissible by the relevant administration. During this period, anyone is free to submit comments and/or objections. Elia is also holding seven information sessions for local residents in November.

Watch the video

Read the press release

Eurogrid successfully issues first German green bond in line with new EU standard

In a first for Germany, Eurogrid GmbH - the parent company of transmission system operator 50Hertz - has issued an EU green bond in line with the new EU standard. In total, Eurogrid secured €1.1 billion worth of financing through this public offering. This capital will be used for the further grid development required for the energy transition.

Read the press release

50Hertz commissions two new 380-kV high-voltage lines

The first line, running for 105 km between Pulgar and Vieselbach, connects the federal states (Länder) of Thuringia, Saxony-Anhalt, and Saxony. The second - linking Röhrsdorf, Weida, and Remptendorf over a total distance of 109 km - crosses the federal states of Saxony and Thuringia. Efficient conductors have been used on both lines, boosting transmission capacity by up to 40% compared with the existing lines. This grid upgrade in the 50Hertz control area is necessary to safely and efficiently integrate the growing volumes of renewable energy into the electricity system.

Read the press release

Strategic round table on maritime security

At a strategic round table on maritime security organised by Elia and attended by King Philippe and Queen Mathilde of Belgium, security officials from Elia Group met with government and industry representatives to discuss best practices for strengthening the protection of critical offshore infrastructure. Recent incidents have highlighted new vulnerabilities, underscoring the need for cybersecurity and physical security at sea. Security is a top priority for Elia Group. Our initiatives in this area include monitoring submarine cables, securing the perimeter of the Princess Elisabeth energy hub, and testing advanced drone detection systems.

Special transport for Achêne substation upgrade

Two transformer units, each weighing over 500 tonnes, have been shipped from Germany to our Achêne substation. Their arrival in Dinant, passing beneath the Charlemagne viaduct, required meticulous logistical planning. This dramatic operation marks a strategic step forward in upgrading our grid. Built by Hitachi Energy, the new phase-shifting transformer (PST) will be able to vary the direction and volume of power on the relevant power lines. It will play a key role in optimising electricity transmission by avoiding overloads, strengthening grid stability, and making it easier to exchange power between

interconnected grids, particularly between Belgium and France.

Watch the video

Oostkerk–Buizingen project: dismantling of high-voltage line completed

The dismantling of the 150-kV high-voltage line between Oostkerk (in Tubize) and Buizingen (in Halle) took a total of 10 months. The work was finished on time and the project as a whole has now been completed. The high-voltage (150-kV) overhead line between Tubize and Halle dated from 1959 and was nearing the end of its life. A 150-kV underground line proved to be the best option for replacing it. To maintain uninterrupted security of supply in the region, the new underground line had to be commissioned before dismantling of the overhead line could begin.

Learn more

INNOVATION NEWS

Success for FLEX AT SCALE

On 30 September 2025, Elia brought together nearly 200 representatives from businesses, associations, and solution providers to discuss smart mobility and photovoltaics. The aim of this first FLEX AT SCALE event was to simplify flexibility, demonstrate its value through representative case studies, and accelerate the implementation of flexibility-related projects for a sustainable, reliable, and affordable energy system.

While photovoltaic panels and electric mobility are gaining ground, flexible energy management (such as smart charging and adaptive photovoltaic generation) remains underutilised. FLEX at SCALE aimed to change that.

Watch the video

SUSTAINABILITY

Successful recycling of Zandvliet substation phase-shifting transformer

The fire at the Zandvliet substation in January 2025 caused serious damage to one of the four phase-shifting transformers (PSTs), which are key components in cross-border electricity exchanges between Belgium and the Netherlands.

Turning the incident into a catalyst for innovation, an interdisciplinary Elia team worked in partnership with Hitachi Energy to recover and reuse materials from the PST, mainly copper and steel, for future use in a transformer. This initiative perfectly encapsulates our ActNow sustainability programme.

Watch the video

Responsable publisher:
Pascale Fonck | Keizerlaan 20 B- 1000 Brussels