

# Case Study

## Cushaling Wind Farm Cushaling, Co. Offaly



**Developer:** Statkraft Ireland Limited

**Contractor:** Adman Civil Projects Limited

**Architect:** Malachy Walsh & Partners

**Civil & Structural Engineer:** Malachy Walsh & Partners

**Sector:** Infrastructure

**Region:** Leinster

**Year of Completion:** 2024

Cushaling Wind Farm represents a landmark achievement in delivering renewable energy infrastructure on some of Ireland's most challenging terrain. Constructed on cutaway peat bog with high water tables and poor drainage, the project required exceptional engineering precision, meticulous logistical planning, and robust collaboration to ensure successful delivery.

The development consists of nine Vestas wind turbines, generating enough clean electricity to power over 35,000 homes. By producing renewable, locally generated energy, Cushaling Wind Farm reduces carbon emissions, lowers dependency on imported fossil fuels, and supports Ireland's national renewable energy and climate-action targets.

Kilsaran played a central role in the project, supplying approximately 10,700 m<sup>3</sup> of Ready-Mix Concrete from its Curragh, Clonard, and Portlaoise plants to service the extensive civil works and the large continuous turbine base pours. Each turbine foundation required up to 900 m<sup>3</sup> of structural concrete, with over 100 individual deliveries and a continuous pump rate of approximately 120 m<sup>3</sup> during the first six hours of each pour

A verified 63% reduction in embodied carbon during construction demonstrates environmental leadership and sets a benchmark for low-carbon infrastructure delivery.

## Kilsaran PRODUCTS

### Concrete Products & Aggregates:

- Ready-Mix Concrete
- Aggregates

