



## Overview

### CASE STUDY

DOOLIN FERRY CO | BTMavrasya | FRANCE

### BAUDOUIIN PRODUCTS FOR EACH VESSEL

2x Baudouin 16M33.3 SCR Propulsion Engines  
2x Baudouin 4W105S Service Generators



### CLASSIFICATION SOCIETY

Class BV

### POWER OUTPUT

16M33.3 : 1545 kW (2100 hp) @ 1800 RPM  
4W105S : 100 kVA (80 kW<sub>e</sub>) @ 1500 RPM

### DUTY

P2 Heavy duty

### APPLICATION

High-speed passenger ferry (coastal and island routes)

### PARTNERS

Shipyard: Nova Shipyard (Turkiye)  
Distributor: BTMavrasya

The Cliffs of Moher Express and Jolie France projects illustrate how advanced marine propulsion and safety design come together in modern ferry applications. Constructed by Nova Shipyard and engineered by Mer et Design, both vessels rely on Baudouin's marine engine technology to deliver reliable performance, regulatory compliance, and operational efficiency.

The Cliffs of Moher Express was commissioned by Doolin Ferry Co. as a flagship passenger ferry for Ireland's Wild Atlantic Way. With a capacity of 297 passengers, it is powered by twin Baudouin 16M33.3 marine propulsion engines, each delivering 2,100 hp at 1,800 RPM. These engines are equipped with selective catalytic reduction (SCR) systems to meet IMO Tier III emission standards. Auxiliary power is supplied by Baudouin 4W105S service generator sets supporting all onboard systems. Commissioning and systems integration were carried out by BTMavrasya, ensuring seamless electrical and mechanical interfacing.

Jolie France, operated by Vedettes Jolie France, follows a similar propulsion philosophy with a Baudouin 16M33 engine fitted with SCR after-treatment to meet emission requirements. The vessel has successfully completed sea trials and is finalizing certification under EU Directive 2009/45 (Category B), complying with enhanced safety standards for aluminum passenger vessels over 24 meters in length.

On Cliffs of Moher Express, the propulsion system couples twin Baudouin 16M33.3 engines with ZF Group 5055A gearboxes and CJR fixed-pitch propellers to optimize power delivery and seaworthiness in demanding Atlantic conditions. The auxiliary electrical system is supported by Baudouin 4W105S service generators, providing stable power for hotel loads, navigation, and onboard systems. SCR after-treatment on the main engines significantly reduces NO<sub>x</sub> emissions, ensuring compliance with IMO Tier III limits in environmentally sensitive areas.

For Jolie France, the propulsion architecture similarly integrates the Baudouin 16M33 within a complete marine systems solution designed for performance, emissions compliance, and passenger safety in line with EU certification requirements.

Baudouin's role in both projects highlights its position as a trusted marine propulsion partner. The 16M33.3 engines deliver a balanced combination of power, durability, and environmental compliance through optimized combustion control and after-treatment technologies. The 4W105S service generators provide continuous, reliable electrical power adapted to maritime auxiliary demands. Modular engine design, a global support network, and marine-specific construction contribute to ease of maintenance and long-term reliability.

By supplying propulsion and service generator solutions for both vessel programs, Baudouin enables operators to achieve strong performance, reduced environmental impact, and dependable operations. With their compliant and robust Baudouin propulsion systems, Cliffs of Moher Express and Jolie France are well positioned to serve their respective markets. Cliffs of Moher Express is already in operation, delivering reliable, high-performance, low-emission service along one of Ireland's most scenic ferry routes. Following successful trials, Jolie France is preparing to enter passenger service with validated safety and compliance credentials. Together, these projects demonstrate the effectiveness of Baudouin's marine propulsion and generator platforms in supporting modern passenger ferry design by combining performance, regulatory compliance, and service readiness across diverse operating profiles.

