

UNITBIRWELCO'S FLARE GAS RECOVERY TECHNOLOGY TURNS WASTE INTO VALUE FOR OFFSHORE LIBYA PROJECT

UnitBirwelco has delivered a tailored Flare Gas Recovery (FGR) solution that is helping operators cut routine flaring, recover valuable hydrocarbons and strengthen environmental performance while delivering clear financial returns. The technology is currently being commissioned as part of a major offshore gas utilisation project in Libya.

The company's Low-Pressure Gas Recovery Package is designed to recover more than 20,000 tonnes of flare gas each year. By capturing gas that would otherwise be burned, the system is projected to avoid approximately 40,000–45,000 tonnes of CO_2 emissions annually. Independent modelling based on actual project cost data and conservative hydrocarbon value assumptions indicates a gas recovery rate of 86.2 percent and a hydrocarbon emission reduction of 64.8 percent. Capital payback is expected in less than 12 months, after which the installation continues to generate ongoing profit.



The package recovers gas at a rate of 2,414.5 kg per hour and condensate at 385.5 kg per hour. These figures illustrate how waste streams that once represented both an environmental liability and a lost revenue opportunity can be converted into a productive operational asset.

Operators face growing pressure to reduce flaring, lower emissions and improve asset efficiency without sacrificing commercial returns. UnitBirwelco's approach addresses this challenge by offering a complete turnkey solution that covers engineering design, fabrication, controls integration, installation and commissioning. By acting as a single point of responsibility, the company reduces interface risk, shortens project schedules and improves cost certainty.

The Libya project is currently in the final stages of commissioning. Once handed over, final performance data will confirm the system's contribution to both operational efficiency and emissions-reduction targets. UnitBirwelco positions the technology as suitable for both new-build and retrofit applications across the global energy sector.

Flexible commercial models are available, including direct capital purchase, lease-to-own arrangements, rental packages and third-party financing partnerships. As a carbon-negative company, UnitBirwelco presents Flare Gas Recovery as a practical pathway for operators seeking to meet ESG objectives while improving the bottom line.

For further information, interested parties may contact Dave Ashby, general manager, or Matthew Demain, senior proposals manager, at UnitBirwelco.

www.unitbirwelco.com