

Flare Gas Recovery

A Cleaner Solution from UnitBirwelco

EXECUTIVE SUMMARY

Birwelco's Flare Gas Recovery (FGR) technology helps operators reduce routine flaring, recover valuable hydrocarbons and improve environmental performance while generating measurable financial returns. This offshore Libya project demonstrates how a tailored FGR solution converts waste gas streams into a valuable operational asset.



COMMERCIAL HIGHLIGHTS

1. Designed to recover more than 20,000 tonnes of flare gas annually
2. Potential to avoid ~40,000-45,000 tonnes of CO2 per year
3. Rapid ROI
4. Payback in less than 12 months
5. Single-source engineering, fabrication, installation & commissioning
6. Ongoing profit generation

Rapid ROI

Strong Economic Returns

<12 mo

Capital Payback

86.2%

Gas Recovery Rate

~45k t

CO2 Avoided / yr

THE BUSINESS CHALLENGE

Operators face increasing pressure to reduce flaring, lower emissions and improve asset efficiency while maintaining commercial returns.

THE BIRWELCO SOLUTION

We designed and fabricated a bespoke LP Gas Recovery Package for an offshore Libya gas utilisation project - now in commissioning - to recover hydrocarbons that would otherwise be flared.



LP Gas Recovery Package - offshore Libya

ENVIRONMENTAL BENEFITS

Significantly reduces routine flaring, improves resource efficiency and supports operator ESG objectives through the recovery and reuse of valuable hydrocarbons.

FLEXIBLE COMMERCIAL MODELS

1. Direct capital purchase
2. Lease-to-own arrangements
3. Rental packages
4. Third-party financing partnerships

PROJECT STATUS

The LP Gas Recovery Package is in the final stages of commissioning as part of a major offshore gas utilisation project in Libya, designed to recover more than 20,000 tonnes of flare gas annually. Final performance data will follow project handover.

As a carbon-negative company, Birwelco delivers bespoke FGR systems for new-build and retrofit applications - a proven pathway to reduce operating costs, recover valuable hydrocarbons and support emissions-reduction objectives across the global energy sector.

COMMERCIAL VALUE

Indicator	Projected Value
Annual Gas Recovery	>20,000 tonnes
Recovered Gas	2,414.5 kg/hr
Recovered Condensate	385.5 kg/hr
Gas Recovery Rate	86.2%
CO2 Emissions Avoided	40-45,000 t/yr
HC Emission Reduction	64.8%

Financial modelling based on actual project cost data and conservative hydrocarbon value assumptions. Detailed assumptions available on request.

WHY BIRWELCO

Unlike many engineering contractors, we provide a complete turnkey solution - engineering design, fabrication, controls integration, installation and commissioning - giving clients a single point of responsibility. This reduces interface risk, shortens schedules and improves cost certainty.

CONTACT BIRWELCO

To discuss how Flare Gas Recovery can support your operational, environmental and financial objectives:

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