



Engineering
excellence



Success Story: Enhancing energy security by giving compressors a new lease of life

To enhance Europe's gas supply security and reduce pipeline reliance, cost-efficient FSRUs are being used as temporary measures until new LNG terminals are ready. A leading maritime energy firm was asked by European nations to station multiple FSRUs for energy independence. Two vessels feature Burckhardt Compression Laby® compressors, which, due to limited use, necessitated comprehensive checks. Our service offer included our revamp and consultancy capabilities, starting with a pre-inspection to establish the work required.

Customer challenges

- One FSRU required to be operational within three months
- Limited use led to an uncertain scope of work
- Issues discovered with auxiliaries, incl. anti-vibration pads, electric motor, and safety valves
- Rusted anti-vibration pads caused stress on the compressor
- Need for **one** single service company to provide a full-service solution for both the compressor and its auxiliaries

Application description

| Compressor manufacturer: Burckhardt Compression | | | |
|---|---------------------|--|---|
| Type | Laby® 5LP250 | Gas | CH ₄ |
| Power | 2'000 kW / 2'680 hp | Suction pressure Discharge pressure | 12 barg / 174 psi 101 barg / 1'465 psi |
| Speed | 509 rpm | Lubrication | None |



Compressor internals inspection.

Burckhardt Compression solution

- Proactive pre-assessment of full skid to understand required scope of work
- Express manufacturing and delivery of compressor components
- Express delivery of new anti-vibration pads with partner
- Overhaul of other auxiliaries with subcontractors
- Execution by Field Service Representatives respecting highest safety standards under all circumstances
- Proposed future maintenance outlook (10 years) based on customer's operational requirements

Customer benefits

- On-time job completion to enable successful hand-over of FSRU
- Burckhardt Compression acted as the one-stop shop for the whole compressor system and auxiliaries
- Compressor system equipped with custom-fit components
- Extended uptime with highest reliability
- Full access to Burckhardt Compression expertise and service network
- Higher OPEX transparency



Inspection findings: no maintenance hatch in compressor room.

"Your team understood the assignment and they executed the task within a tight timeframe. The compressor start-up was a great achievement and stands as a testament to your expertise and dedication. Furthermore, the thorough overhaul the team conducted eliminated the persistent vibration issues, ensuring optimal functionality."

Our customer

Burckhardt Compression AG

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