



SUCCESS STORY

MAJOR REVAMP OF LABY®-GI COMPRESSOR ON FSRU TO MEET NEW PROCESS PARAMETER

Golar Management Norway is one of the world's largest independent owners and operators of LNG midstream infrastructure. They decided to deploy their FSRU (floating storage and regasification unit) vessel Golar Freeze with a new charterer who will deliver gas to Jamaica's sole power utility JPS. In order to meet the new process parameters, a major revamp of the existing Laby®-GI Compressor (used as minimum send-out compressor on board) was required under high time pressure.

CUSTOMER CHALLENGES

- Existing FSRU vessel to be used for new charterer
- Discharge pressure of a Laby®-GI on the FSRU had to be increased from 45 bar to 65 bar
- Compressor hasn't been in operation for several years
- Space constraints on board the vessel, highly compact construction and harsh marine environment
- Tight time schedule

APPLICATION DESCRIPTION

Laby®-GI Compressor as minimum-send-out on FSRU vessel

| | | | |
|--------------|---|--|---|
| Type | Burckhardt Compression before: 4LP250-3A_1 after: 5LP250-4S_1 | Gas | LNG (CH ₄) |
| Power | 1'200 kW / 1'600 hp | Suction pressure Discharge pressure | 1.3 bara / 18 psia before: 45 bara / 650 psia after: 65 bara / 940 psia |
| Speed | 445 rpm | Lubrication | No |



Laby®-GI Compressor as minimum-send-out on the FSRU vessel

BURCKHARDT COMPRESSION SOLUTION

- Engineering study of the complete compressor system and auxiliaries to verify feasibility, including clear definition of necessary changes to fit the new parameters
- Increase discharge pressure from 45 bar to 65 bar by adding a fourth stage of compression, along with extra auxiliaries, piping and other modifications
- Special solution applied avoiding the need for a more powerful motor
- Global network of Service Centers for speed and flexibility
- Round-the-clock supervision by Burckhardt Compression engineers to ensure safe and reliable project execution

CUSTOMER BENEFITS

- Zero incidents
- Existing Golar Freeze vessel could be reused for the new charterer
- On-time project execution despite the tight schedule
- Project goal achieved without the costly replacement of the motor
- Rapid and flexible responses to unanticipated situations



On-site crew in front of the compressor package

"Thanks to the compressor revamp, we were able to repurpose our Golar Freeze vessel within the given tight time frame. The technical solution offered and subsequent project execution completely met our expectations. Burckhardt Compression was proactive, available at the right time, with the right plan, the right offer and the right team. We really appreciated its rapid and flexible responses to unanticipated situations."

Gabriele Pipitone, Vessel Manager,
Golar Management

Burckhardt Compression AG

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