

25th world gas conference

"Gas: Sustaining Future Global Growth"

Montoir LNG Terminal Development

Matching European Gas Market needs by enhancing the maritime compatibility

Jean-Marc LE GALL, ELENGY, Asset Manager

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New LNG market developments Expert Forum



Patron



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Montoir LNG Terminal



 LNG is going East – Temporary weakness of the European LNG Market

- Opportunity for European Terminals:
 - To expand their maritime compatibility
 - To develop new service features



Relevant features for market players



A large development potential

A positive local insertion

A reliable maritime configuration

A dynamic hinterland

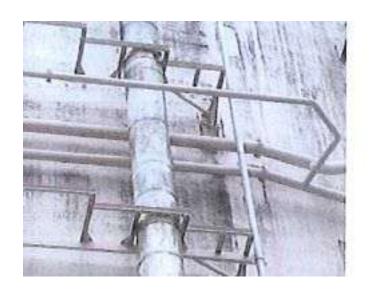


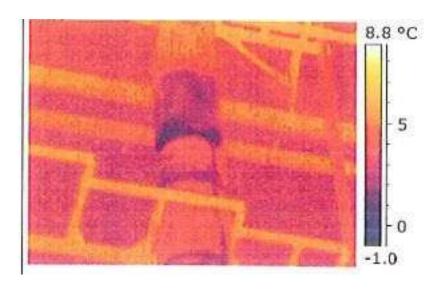


Preliminary technical reviews LNG Tanks investigations



- Concrete ageing
- Thickness measurements of reinforcement steel cables
- Drilling of concrete sample
- Infra red thermography





Preliminary technical reviews Process expertise



- Identification of main corrosion locations
 - Pipe supporting systems
 - Platform supporting frames
 - Electric boxes
 - ORV support structures



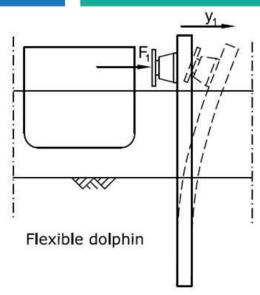


Preliminary technical reviews Maritime expertise – Qmax

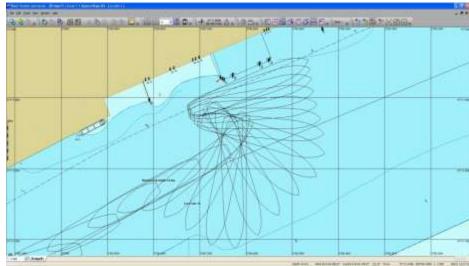


Assessment of berth structural features

- Assessment of Port environment
 - Navigation simulations
 - Required tug capacity







Focus on works LNG tanks and process



- Full refurbishment of the insulation on tank domes
- Valves replacement
- New overhead bridge



- Full 6,6 kV power transmission network replacement
- New ORV supporting structures



Focus on marine works to achieve Qmax compatibility



- Fenders and associated piles upgrading
 - Head of each dolphin pile replaced
 - Prefabricated fender module installed





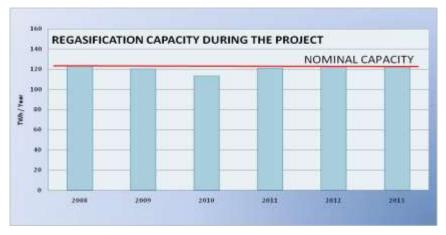
- Increased safe working load
- New foundations
- Additional hooks
- Rock slope reshaped



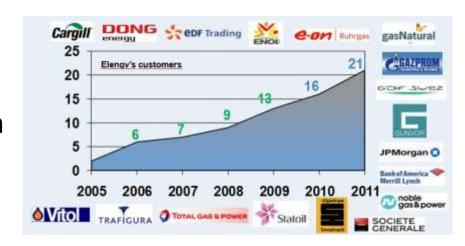
Limited commercial impact



- The regasification capacity has not been affected by the project
 - Specific execution methodology
 - Dedicated operations team



- Development of the customer portfolio
 - Validation of this life expansion strategy



Conclusion



- Current market situation is considered as an opportunity:
 - To strengthen existing facilities
 - To develop their maritime compatibility
 - To develop new service features
- From this strong basis, new issues can be addressed:
 - Enhance arbitrage possibilities
 - Develop small scale LNG logistics
 - Identify new environmental innovations