

25th world gas conference "Gas: Sustaining Future Global Growth"

Adding Value to Plant Performance

Integrated Management System on LNG Terminals

By: Olivier DENOUX, HSE Manager of ELENGY

Date: 06-Jun-12

Venue: Plenary Theatre





INTERNATIONAL GAS UNIT

Host







Summary

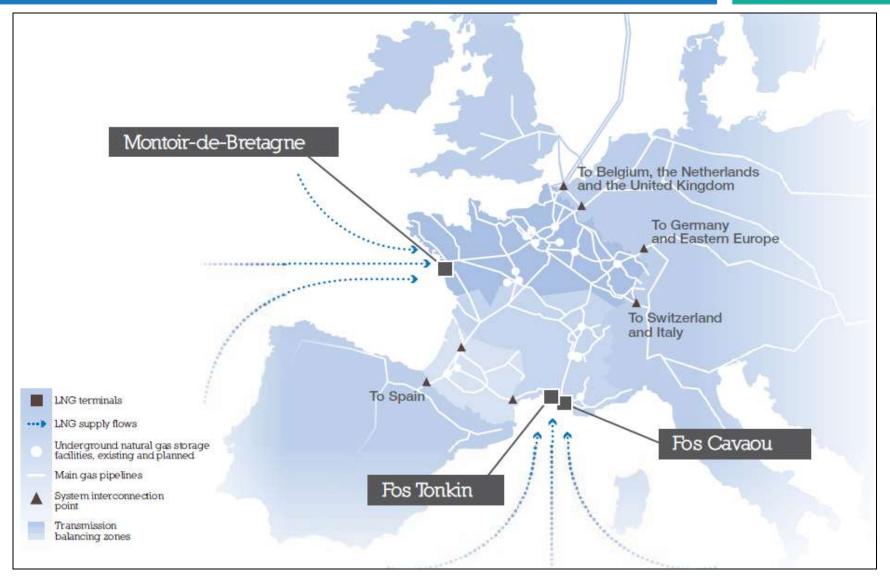


- Presentation of Elengy
- Why an integrated management system on LNG terminals?
- > The choice made by Elengy
- > The results
- Conclusions















Montoir-de-Bretagne

Fos-Tonkin

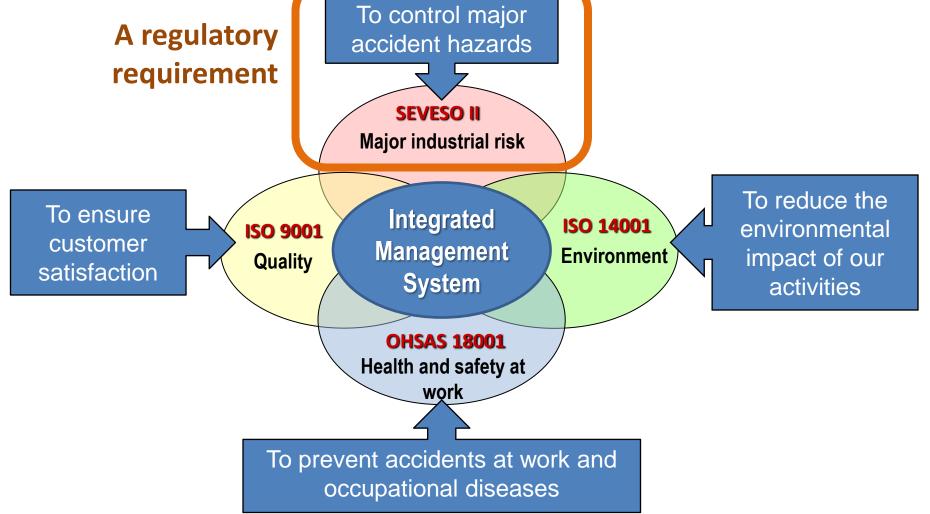
Start in 1980 Capacity: 10 Bm³/year Tank capacity: 360 000 m³ Ships up to 267 000 m³ Start in 1972 Capacity: 5.5 Bm³/year Tank capacity: 150 000 m³ Ships up to 75 000 m³ Fos Cavaou

FOSTIRX HLHG

Start in 2010 Capacity: 8.25 Bm³/year Tank capacity: 330 000 m³ Ships up to 267 000 m³

72% owned by Elengy Operated by Elengy through an O+M agreement

Why an integrated management system on LNG terminals?



The choice made by Elengy





- ISRS© Det Norske Veritas (DNV)
 - ✓ A collection of good practices and an assessment tool
 - ✓ Initially based on Frank E. Bird's works
 - Structure based on 15 processes embedded in a continuous improvement loop
 - Includes the main standards:
 - ✓ ISO 9001
 - ✓ ISO 14001
 - ✓ OHSAS 18001
 - ✓ OSHA 1910.119 Process Safety Management
 - ✓ Seveso II Directive 96/82/EC
- \circ $\,$ Level of performance between 1 and 10 $\,$
 - Target level of performance decided by management team
 - ✓ Target for French LNG terminals: 6 or 7

The last decade – A period of major changes for the French LNG terminals





2 LNG terminals

Operated by regional entities, parts of a public vertically integrated company

One "internal" customer

Low number of different ships

Organisational changes

Evolution of the market

Strengthening of regulations

3 LNG terminals

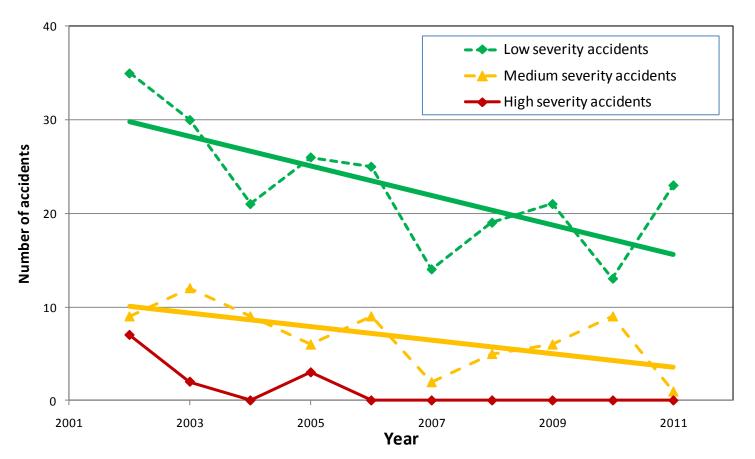
Operated by a small subsidiary of a private international group

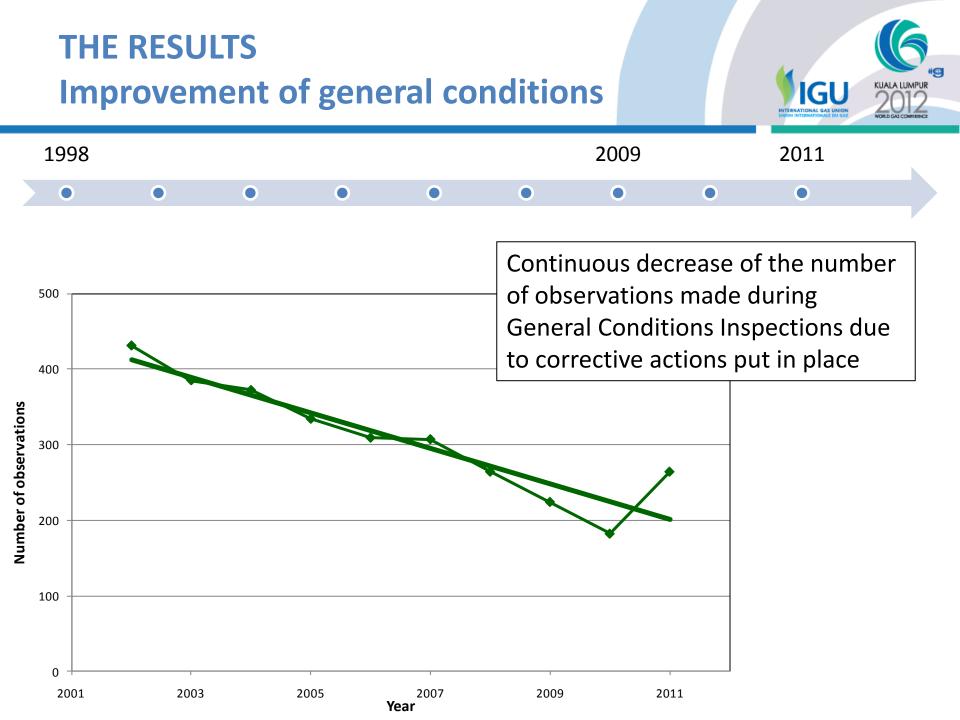
More than 20 customers

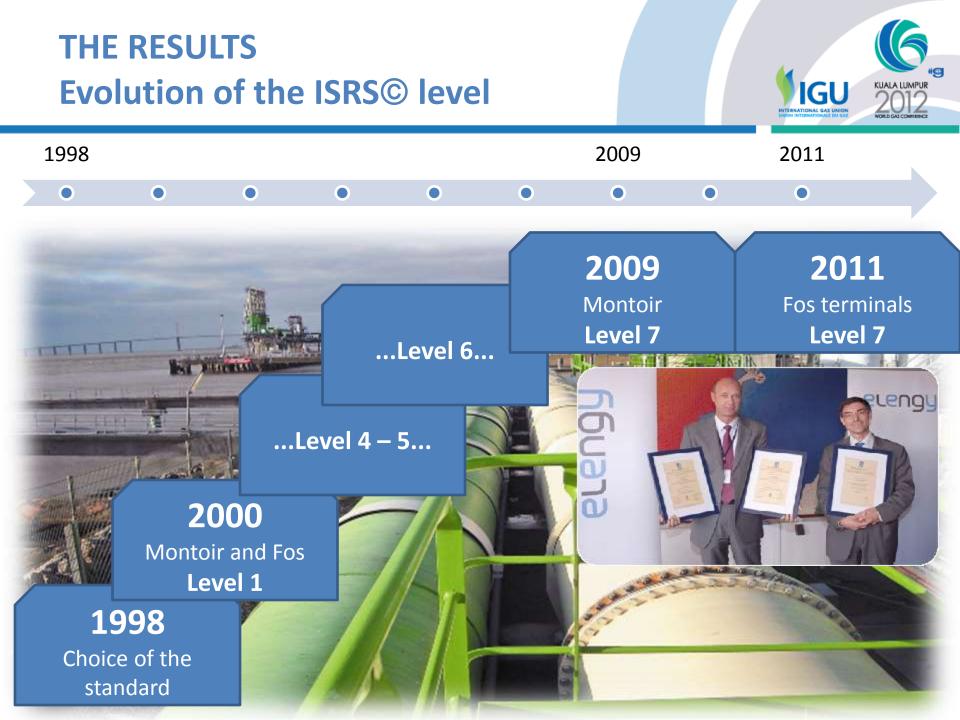
Large number of different ships



Continuous decrease of the number of accidents at Montoir LNG terminal







CONCLUSION





Establishment of an integrated system

- ✓ To comply with a regulatory requirement (Seveso II European Directive)
- ✓ To comply with standard based on an improvement loop (ISO 9001 / ISO 14001)
- $\checkmark\,$ To enable a better identification of risks
- \checkmark To have a better control of these risks

Since 1998 and despite major organisational changes, ISRS© has been the point of reference, adding value to plant performance whatever the reorganisations



THANK YOU FOR YOUR ATTENTION...

GOOD SAFETY IS GOOD BUSINESS

