

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

The MEDGAZ pipeline

The new direct gas entry to Europe via Spain By: Juan A. Vera – General Manager MEDGAZ Date: 6th June

Venue: WOC3, Study Group 3.1





Host

Gas

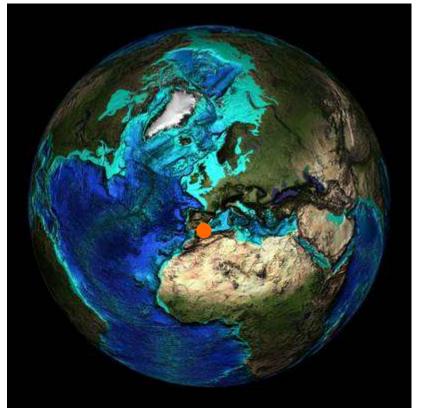
Host Sponsor





Who is MEDGAZ

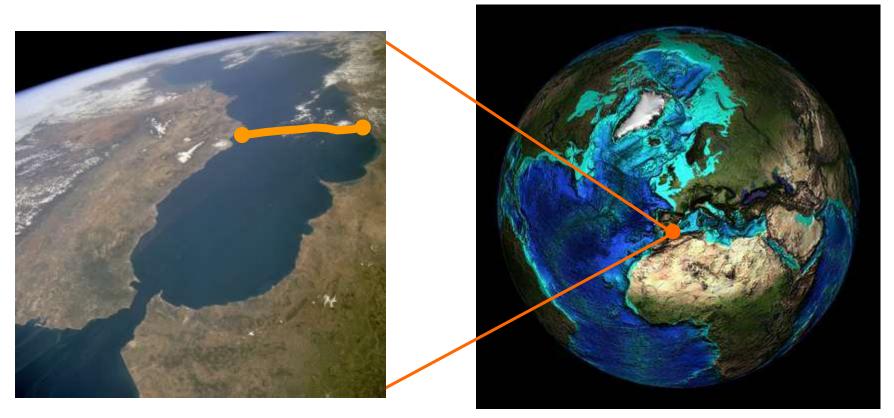
- New direct gas link between Algeria and Europe, via Spain
- MEDGAZ S.A. company incorporated in Spain
 - Responsible for the design and construction– Completed in 2011
 - Since April 2011, operator of the MEDGAZ pipeline system, comprising:
 - a compression station in Beni-Saf, Algeria
 - an offshore pipeline from Algeria to Spain
 - and a reception terminal in Spain.
- Geographical location:
 - North Africa Southern Europe
 - West Mediterranean
 - Algeria to Spain pipeline



Geographical location - North Africa - South Europe

Who is MEDGAZ





West Mediterranean satellite view – Gibraltar straight Location of the MEDGAZ pipeline. Source: NASA

Geographical location – North Africa – South Europe

MEDGAZ Technical data



Reception Terminal, Almeria - Spain

OFFSHORE PIPELINE

- 210 km \checkmark Length:
- ✓ Internal diameter:
- \checkmark Capacity:
- ✓ Design pressure:
- ✓ Maximum depth:

24 inches

- 8 bcm/year
- 220 bar
- 2.155 m

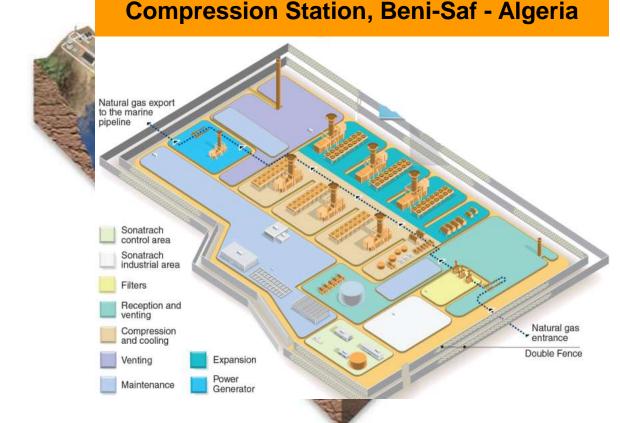
Compression Station, Beni-Saf - Algeria



Total investment: 1.018 M€

MEDGAZ Technical data





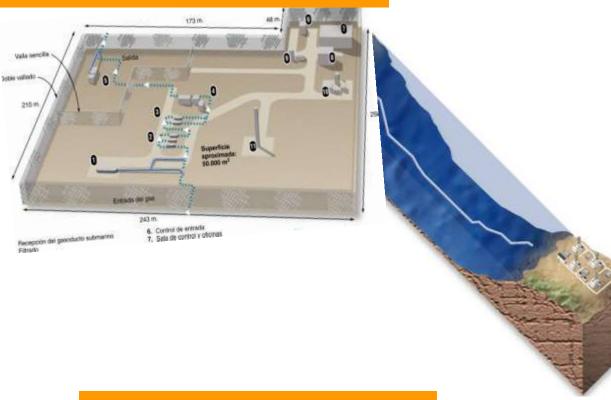
Compression Station, Beni-Saf - Algeria

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MEDGAZ Technical data



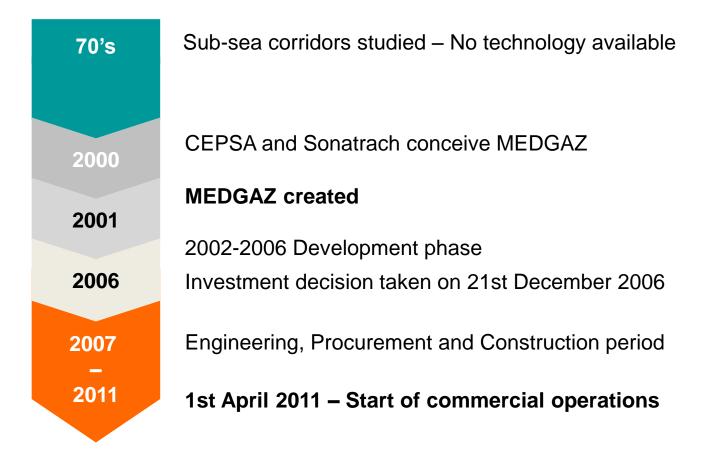
Reception Terminal, Almeria - Spain



Total investment: 1.018 M€

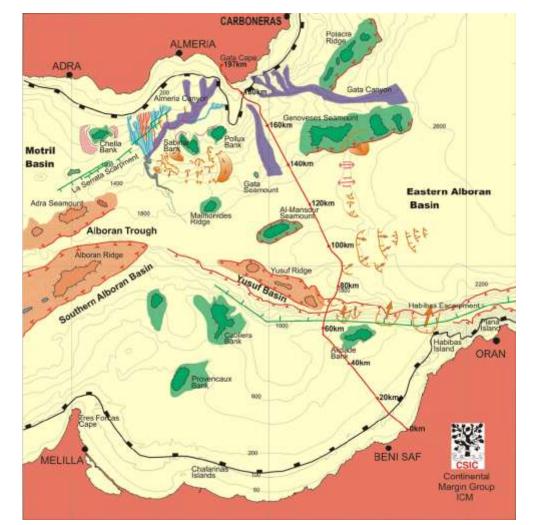
Project background





The offshore project: route selection





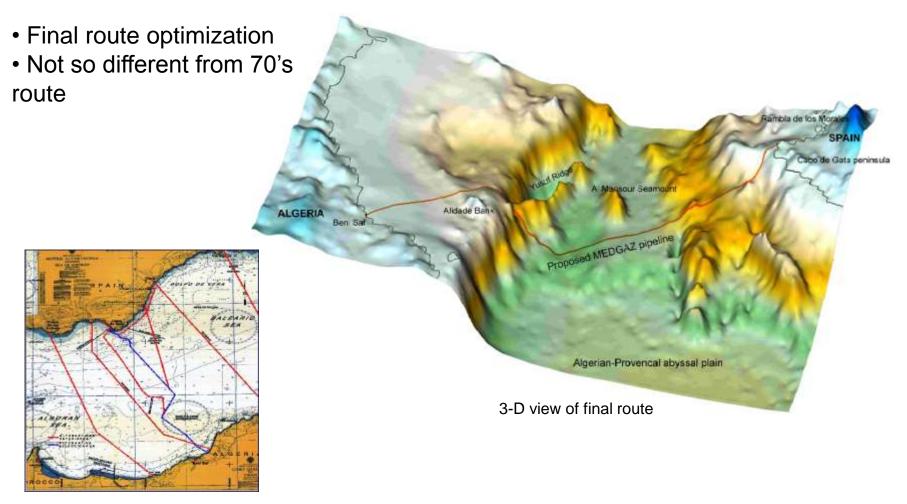
Geohazard map in the Alboran Sea Produced by CSIC for MEDGAZ - 2004

2001 – 2004 Feasibility studies

- Alternative routes
- Geohazard study
 - Faults
 - Slopes
 - Landslides
- 3-D sea floor mapping

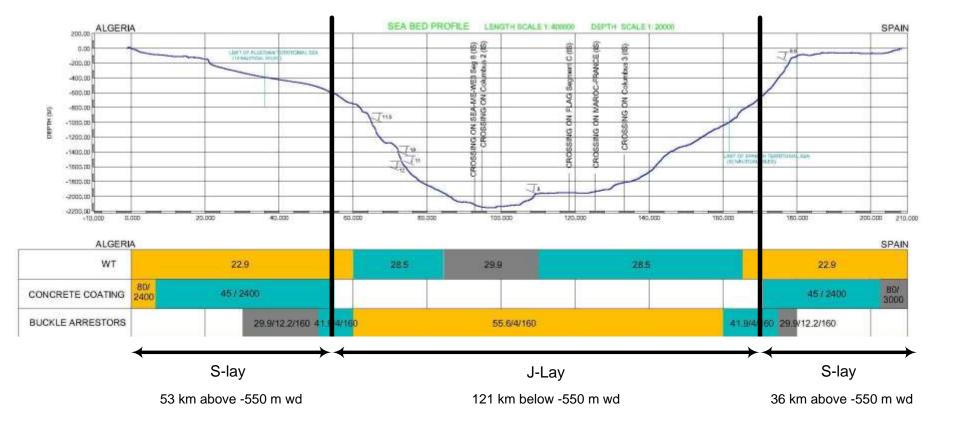
The offshore project: route selection





Routes studied in the 70s











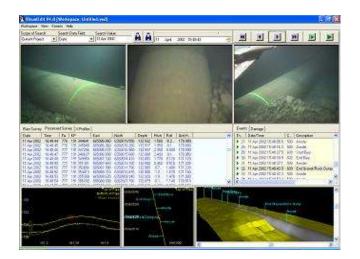
Algerian side – S-lay close to the coast

Spanish side landfall



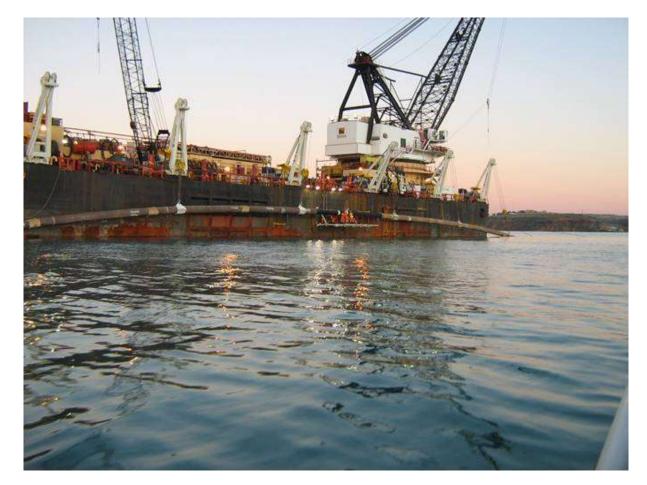


J-lay – Saipem 7000 Depths beyond -550 m wd



Live pipe lay touch-down survey





Last offshore pipe weld

The "non-technical" project

Milestones:

- **2001-2004**:
 - MEDGAZ part of EU TEN
- **2004-2006**:
 - Included in Spanish and Algerian gas infrastructures' plans
 - Algerian Concession
- **2007-2011**:
 - EIB financing up to 500 M€



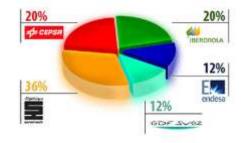
Signature of the Algerian Concession - Oran 2006



Financing agreement signed with EIB

Key project support levers:

- Shareholders
- Spain, Algeria
- European Union
- Sonatrach participation



KUALA LUMPUR

IGU

MEDGAZ Shareholders



