



DF Oil & Gas

Corporatif brochure

April 2022

DF Oil & Gas

DF : Multinational company based in Spain with over 150 years of experience. Listed on the Madrid stock exchange for 109 years. Present in numerous countries in Europe, America, Asia, Africa and Oceania.

It is among the main companies specialized in the execution of “turnkey” projects in energy generation, oil & gas and mining and handling of raw materials.

We implement engineering, assembly, commissioning, operation and maintenance through our own means.

DF Oil & Gas Incorporated in 2012 as a result of the concentration of all Oil & Gas operations within DF, including Felguera IHI and DF Caldereria heavy.

► Upstream



► Refining & Petrochemicals



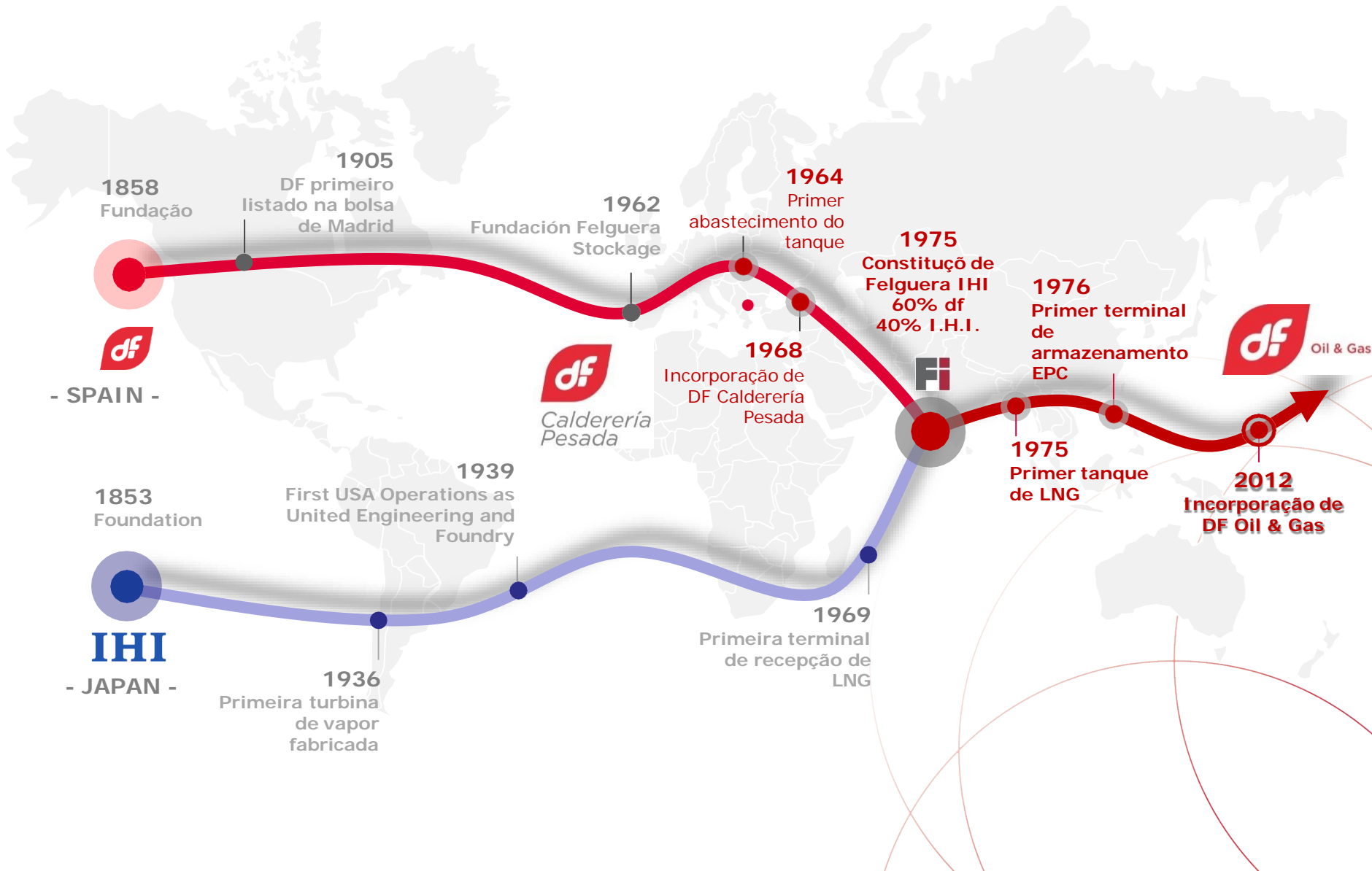
► Storage & Manufacturing

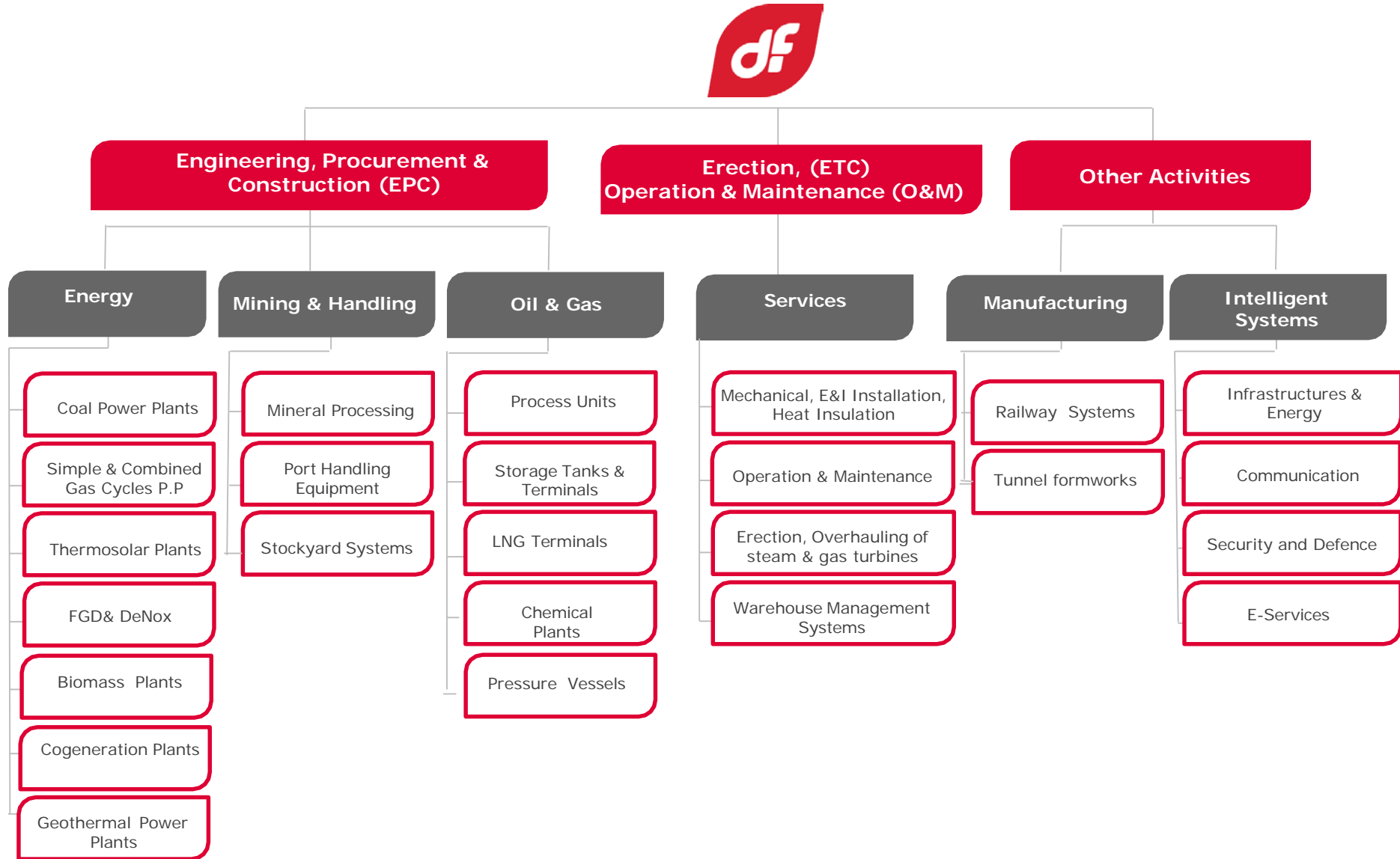


► Natural Gas

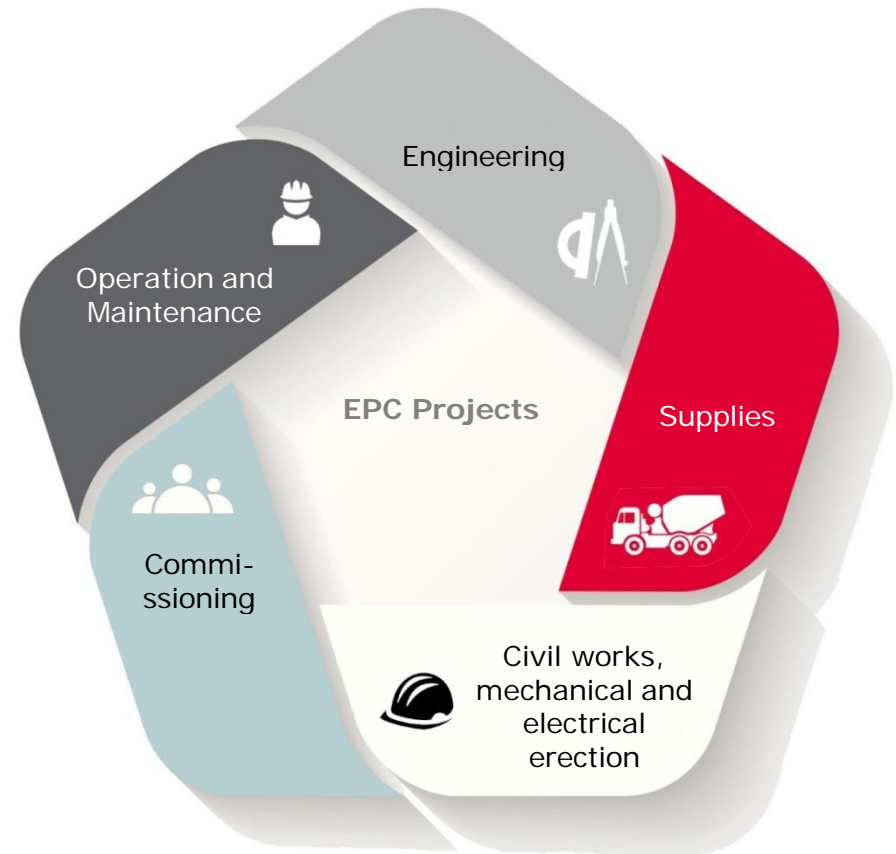
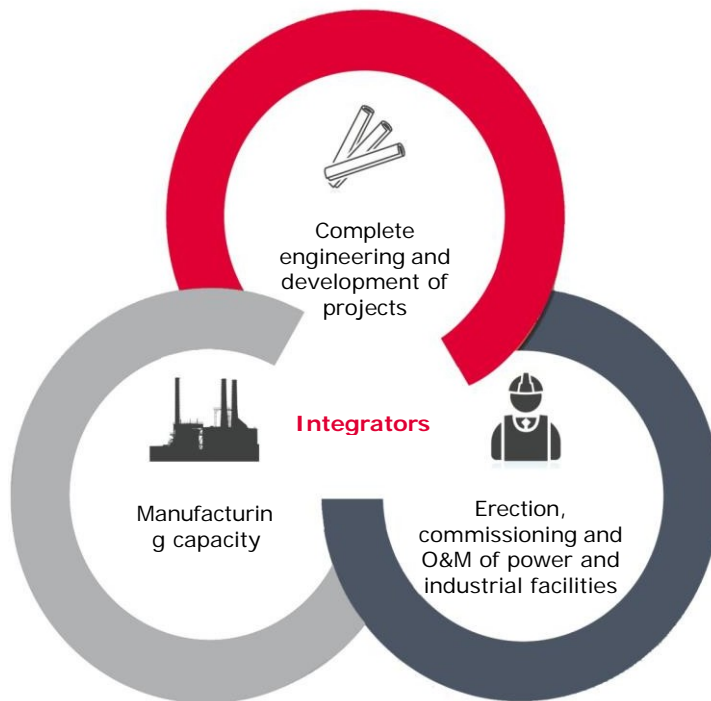


A story over three centuries



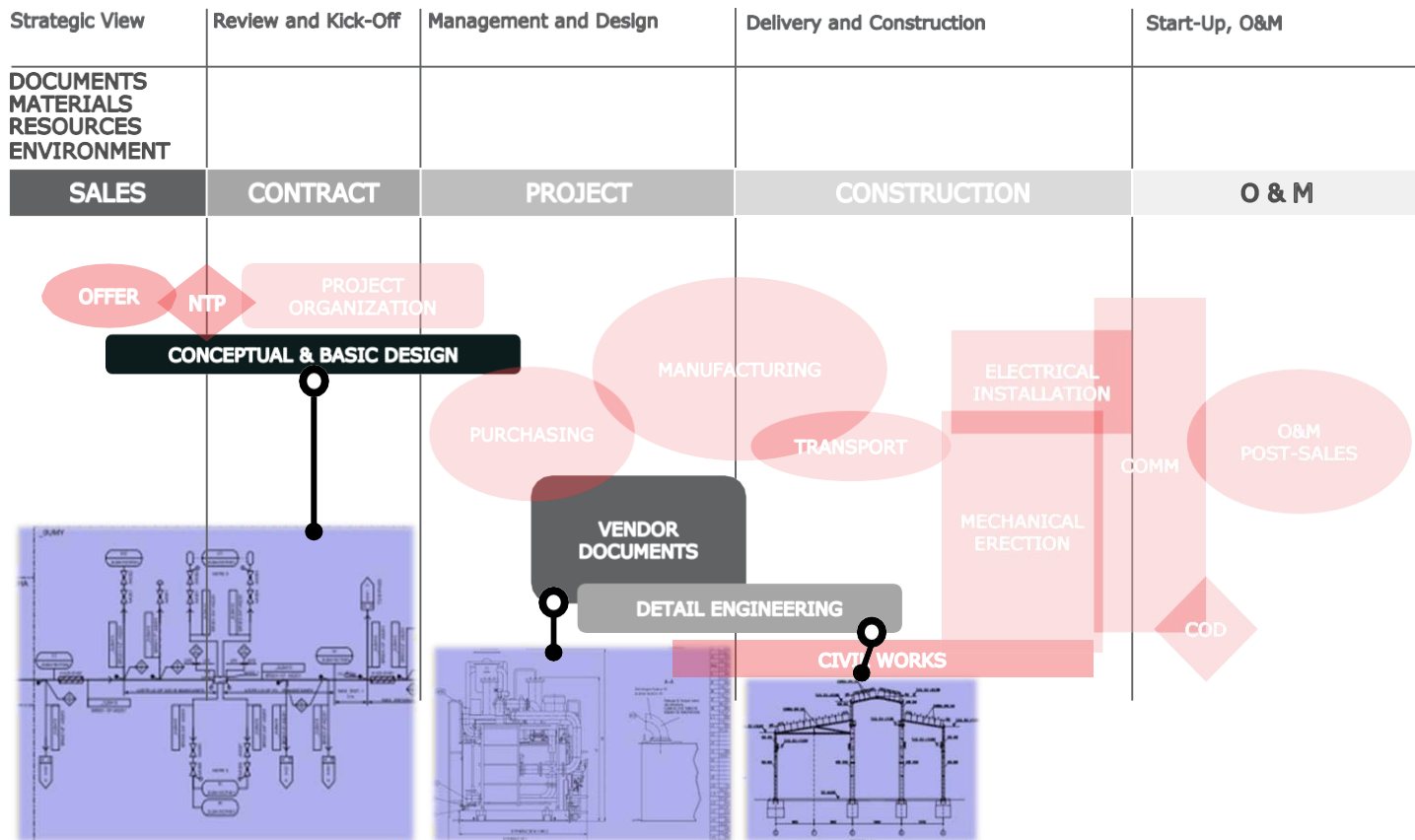


A multi-specialist company... Present throughout the entire value chain...



Our DNA: EPC Projects

The design is programmed to support design, purchase and construction



NTP. Notice To Proceed
 COD. Commercial Operation Date
 O&M. Operation & Maintenance
 COMM. Commissioning

DF Oil & Gas

International presence





Upstream



Upstream

NC-115 GOSP Field (Awbari, Lybia) Oil and Gas Separation Plant (1996-2006)



- Raw water and gas separation appears
- The Gas chargers.
- The Impulse Tanks.
- The Oil handling and storage system before the pipeline to send to the terminal.

Refining & Petrochemical



Refining & Petrochemical: Some Global References



Refining & Petrochemical: Some Global References

Petroquímica Pajaritos (Coatzacoalcos, Mexico) Expansion of the Vinyl Chloride Plant (2001)



- Project carried out without interruptions in the existing plant.
- The VCM's production unit is made up of the following areas:
 - The Oxychlorination to produce DCE.
 - The DCE recovery.
 - The Purification of DCE.
 - The Disintegration of DCE.
 - The Purification of MCV.
 - The Direct staining.
 - the Catoxid.
 - The Wastewater treatment.
 - The Incineration of exhaust gas.
 - The Neutralization of HCL.

Refining & Petrochemical: Some Global References

NAFTAN (Belarus) Delayed Coker Unit



- The Process Unit
- The Coke Unit
- The BOP (balance of the plant)
- The Coke handling system

Refining & Petrochemical: Some Global References



Dow Chemical (Tarragona, Spain) Octane production plant



Fertiberia Ammonia Plant

Refining & Petrochemical: Some Global References

Petronor (Muskiz, Spain) Sulfur Management Facility (2001)



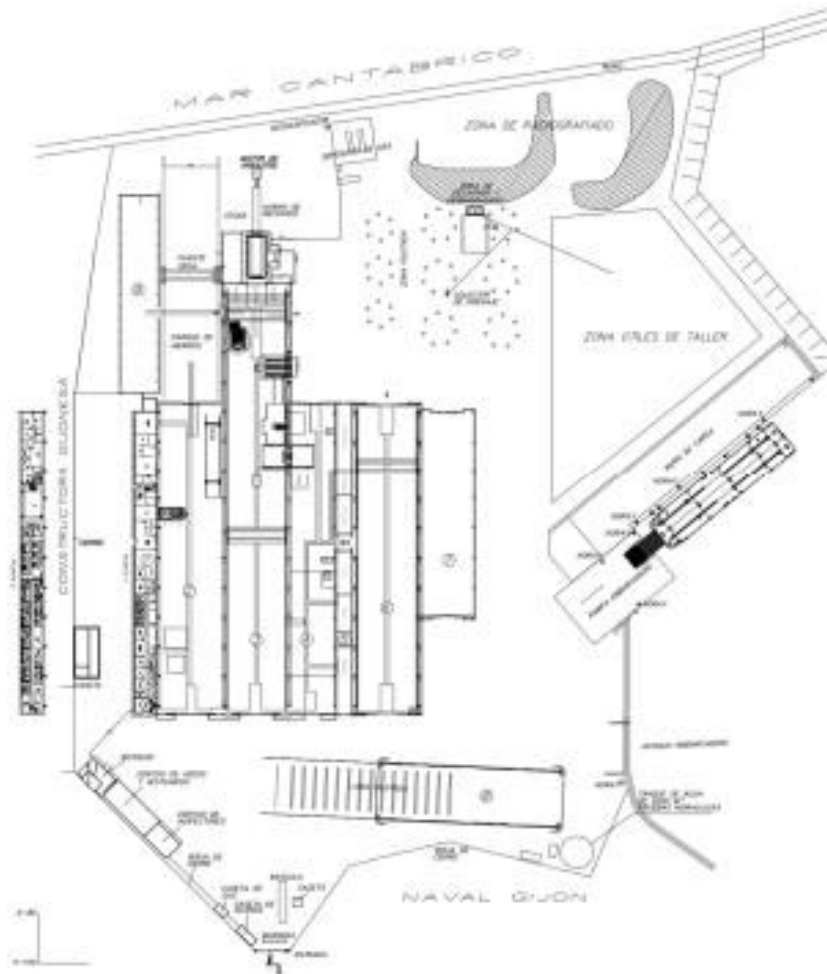
- The automatic weighbridge
- The SO₂ detection system in the hoppers.
- The Sulfur handling system with conveyor belts.
- The Transfer and construction towers of hoppers.
- The Installation of truck loading.
- The Energy harvesting system.

Storage and Manufacturing



Storage and Manufacturing

DFCP installations



- ✓ Own Dock & Own barge
- ✓ 76.000 m2 total surface
- ✓ 21.000 m2 covered (9 workshops)

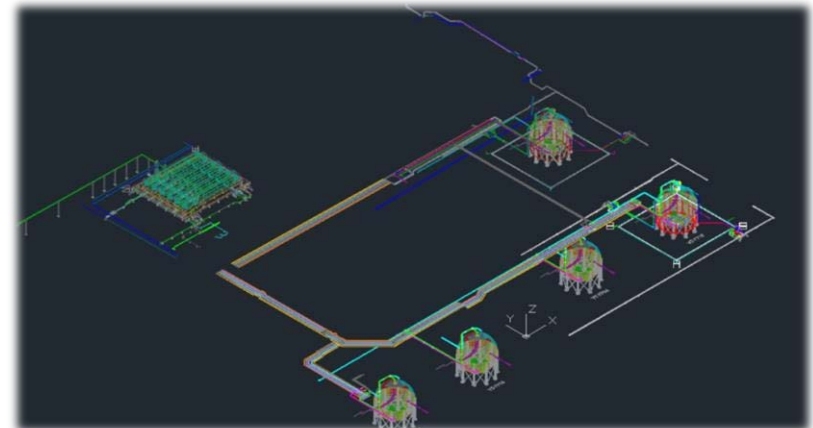
Storage and Manufacturing

Vertical Tanks and Storage Terminals



Storage and Manufacturing

Spherical Tanks and LPG Terminals



Storage and Manufacturing

6x Storage Bullets



Location

netherlands

Year

2013 – 2014

Final user

VOPAK

Description

Range:

Mechanical design; Complete manufacture of equipment in the DFCP store with diameters of 10 m. and length of 100 m. DDP delivery and local installation.

Storage and Manufacturing

3 x HP Input Separators



Location

Oman

Year

2012 – 2014

Final user

RDP

Description

Range:

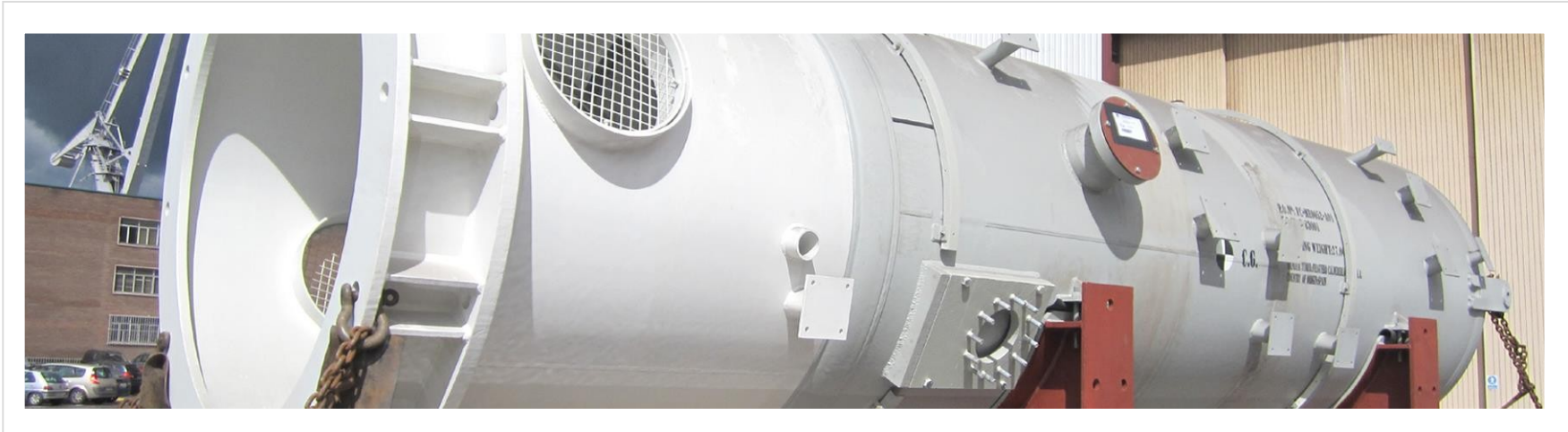
Mechanical design; In-store manufacturing; DDP delivery.

Material quality:

145+3mm thick, blast-bonded plates SA516-65 + Alloy 825

Storage and Manufacturing

Process equipment. Separators, Purifiers, Drums



Location

North Sea

Year

2011 – 2013

Final user

BP

Description

Range:

Mechanical and process design; Internals, instrumentation and fabrication of containers.

Material quality:

P500 QL2 + SS904L, Alloy 825, SS316L

Storage and Manufacturing

FCC Reactor Head



Location

Saudi Arabia

Year

2011 - 2012

Final user

SAUDI ARAMCO

Description

Range:

Mechanical drawing; In-store manufacturing, horizontal insertion

of 1RY and 2RY cyclones; FAS delivery.

Material Quality:

Storage and Manufacturing

Pressure vessels for delayed coking unit (DCU)



Location

Belarus

Year

2010 – 2015

Final user

NAFTAN BELARUS

Description

Range:

Mechanical design; Manufacture of the coke unit in the store; Fractionator, purge drum and balance balance of the containers at the pressure of the coking unit; Engineering and assembly of coking teams in constructions.

Storage and Manufacturing

3 x Coke Drums



Location

Argentina

Year

2010 – 2013

Final user

YPF

Description

Range:

Mechanical design; in-store manufacturing, DDP delivery.

Material quality:

SA387-11+410SS

Storage and Manufacturing

2 x Coke Drums



Location

Germany

Year

2009 – 2010

Final user

ConocoPhillips

Description

Range:

Mechanical design; in-store manufacturing; Delivery DDP.

Material quality:

SA387-12 + 410SS

Storage and Manufacturing

DHT Reator



Location

Germany

Year

2009 – 2010

Final user

ConocoPhillips

Description

Range:

Mechanical design; In-store manufacturing, DDP delivery.

Material quality:

110+4mm plate thickness, SA387-22+347SS

Storage and Manufacturing

HDS Reator



Location

Portugal

Year

2009 – 2010

Final user

PETROGAL

Description

Range:

Mechanical design; in-store manufacturing; DDP delivery.

Material quality:

95+5mm plate thickness, SA387-11+347SS

Storage and Manufacturing

HDS Reator



Location

netherlands

Year

2009 – 2011

Final user

SHELL

Description

Range:

Mechanical design; in-store manufacturing; delivery DDP.

Material quality:

110+3mm plate thickness, SA542-D-4A + 347SS

Storage and Manufacturing

RECOPE (Limon, Costa Rica) LPG Terminal Expansion (2012)



- The 4nos. 4000cum spherical propane tanks
- The 5 Nos. 250cum horizontal deposits
- The Process design
- The Stacking, civil works, FFS
- The Electromechanical interconnections with existing installations.
- The control
- The Commissioning

Storage and Manufacturing

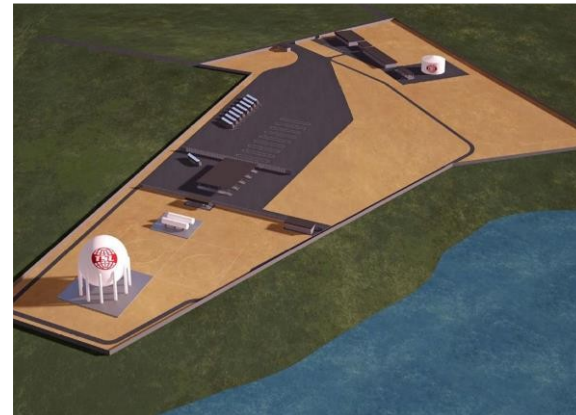
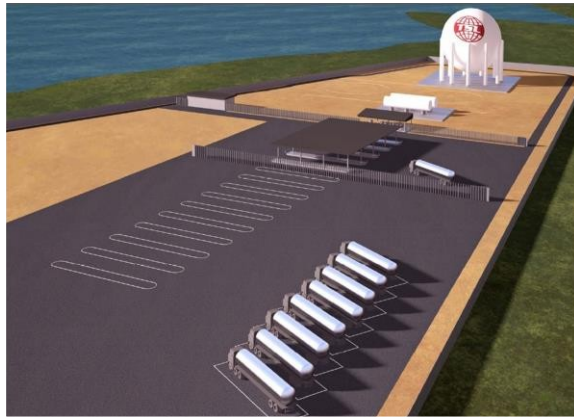
PETROPERU (Talara, Peru) Expansion of the LPG Terminal (2012)



The 3nos. 3,200cum LPG spherical tanks
The Process design
Stacking, Civil Works, FFS
The Electromechanical interconnections with existing
Installations
The control
The Commissioning

Storage and Manufacturing

TSL (Port Harcourt, Nigeria) LPG Terminal Expansion(2015)



The 1 No. 8,500cum Spherical Propane Tanks
The Truck loading facilities
The laboratory
The Process design
The Stacking, Civil works, FFS
The Electromechanical works
The control
The Commissioning

Storage and Manufacturing

VTTI (Vassilikos, Cyprus) New Gasoline and Gasoil Terminal (2011)



- The 3nos. 40,000 cum tanks
- The 6nos. 21,000cum tanks
- The 6nos. 11,000cum tanks
- The 4nos. 10,000cum tanks
- The Piping, FFS
- The Instrumentation
- The Commissioning

Warehousing and Manufacturing

SK-REPSOL (Cartagena, Spain) New Lubricants Terminal(2013)



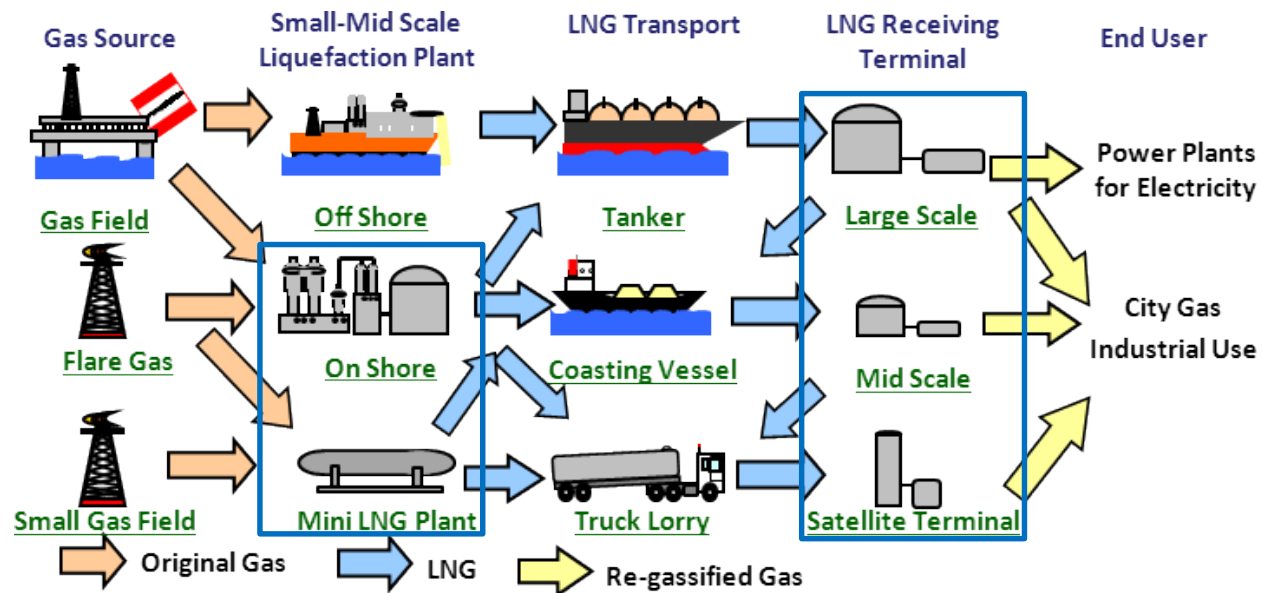
- The 13Nos. lubricant tanks
- The Piping, FFS
- The Instrumentation
- The Commissioning

Natural gas



Natural Gas: Range of

LNG solutions product range



Natural Gas: Some References

ANAGAS 7Nos. 150,000cum prestressed concrete tank(2002)



2In the wall Tanks PC 150.000m³ El Musel



1No PC wall tanks 150.000m³ Cartagena



4In PC 150.000m³ Barcelona wall tanks

Natural Gas: Some References

Expansion of Fluxys plant regasification. 1 No. 180,000 cum PC wall and BoG compression system



Natural Gas: Some References

PECEM & GUANABARA (Brazil) LNG/CNG Marine installations



Each location consists of:

- The 3+3 loading/unloading arms for LNG (16" – 5,000 m³/h)
- The Skid interconnection including all piping, insulation, valves, etc.
- The 2 CNG Load arms (100 kgf/cm² up to 20 Millions m³/d).
- The fender.
- The Access walkways for LNG carriers.
- The Monitoring system of lashing devices, including hooks
- The Including connections from the ship to the shore
- The Control system including ESD.
- The Electrical substation for powering the terminal.
- The fire fighting system



Thanks!

Corporate brochure

April 2015

Natural gas

Coverage of IHI companies in the LNG market

