

TUBACEX

-FIFTH IEF KAPSARC THOUGHT LEADERS' ROUNDTABLE-

February 28, 2019







FOCUSED ON CLIENTS: Transforming the most demanding needs into customized solutions of high technological value developed in co-creation with customers



KEY FACTS

- Sales: 770 M\$ (500M\$ from Oil & Gas sector)
- **Upstream** is our main focus
- 2500 professionals
- Full Range of Seamless Stainless tubular Products
- **15 mills** in Spain, Austria, Italy, Norway, USA, KSA, Dubai, India and Thailand.
- Commercial presence in over 30 countries
- An own global master distributor (TSS) with 12 service centers

NORWAY FINLAND SWEDEN RUSSIA ETHERLANDS GERMANY UKA ACERALAVA LPOI AND - CANADA FRANCE TTI LLODIO TSS FRANCE SREE TTI AMURRIO JAPAN SREP PU TTI OCTG AUSTRIA TTA SALEM TUBE **'TSS CENTRAL EUROPE** TUBACEX SERVICES" TSS/CENTRAL WAREHOUSE* S KOREA LUSA TURKEY CHINA *TSS HOUSTON TUBACEX AMERICA TUBOS MECANICOS' SPAIN MOROCCO KSA IBF-TUBES + INDIA MEXICO ITALY + TAIWAN "TSS INDIA *TSS MIDDLE TUBACEX EAST 📥 AWAJI STAINLESS SINGAPORE INDONESI BRAZIL TSS BRASIL AUSTRALIA CHILE SOUTH AFRICA ARGENTINA

A worldwide leading supplier of Seamless Stainless Tubular solutions

Tubacex Group Markets



OIL&GAS: EXPLORATION AND PRODUCTION AND MIDSTREAM

- CRA Oil Country Tubular Goods (OCTG)
- Umbilical tubes along with a wide range of seamless stainless and high nickel alloys for subsea applications (risers, flowlines, manifolds)
- Tubular solutions for FPSO, FLNG, platforms (piping systems, separation...

REFINING, PETROCHEMICAL AND CHEMICAL

• Regas facilities, refineries, heat exchangers, reactors, furnaces, Heater and Reheaters, other process industries

FERTILIZER PRODUCTION

- Strippers
- Condensers
- Scrubbers
- Reactors
- Piping



POWER GENERATION

- Critical equipment
- Ultra Super Critical (USC) equipment
- Industrial power plants
- Nuclear power plants

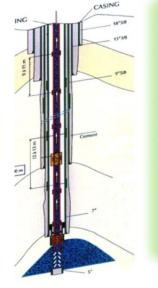


STOCK FOR DISTRIBUTION AND OTHER INDUSTRIES

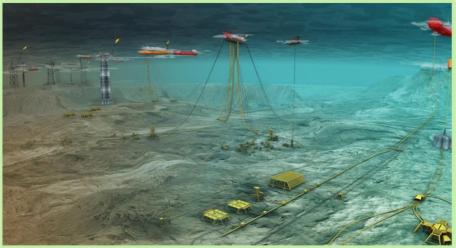
- Pipes and tubes according to all relevant standars
- Hollow bars for metal-mechanic industry through our master distributor COTUBES
- Instrumentation and hydraulic tubing for a wide range of high added value industries

Is Steel industry an agent to support transition energy supply?









TechnipFMC



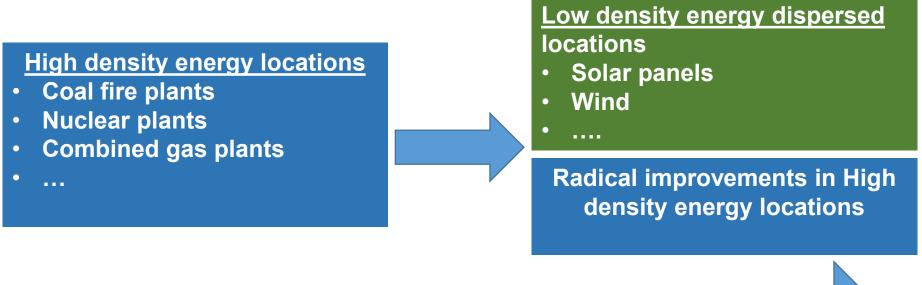




Industry	Gtons C02	% share
Cement	3	7%
Steel	2,9	7%
Ammonnia	0,5	1%
Ethylene	0,2	0,5%

Source: Decarbonization of industrial sectors. McKinsey. June 2018

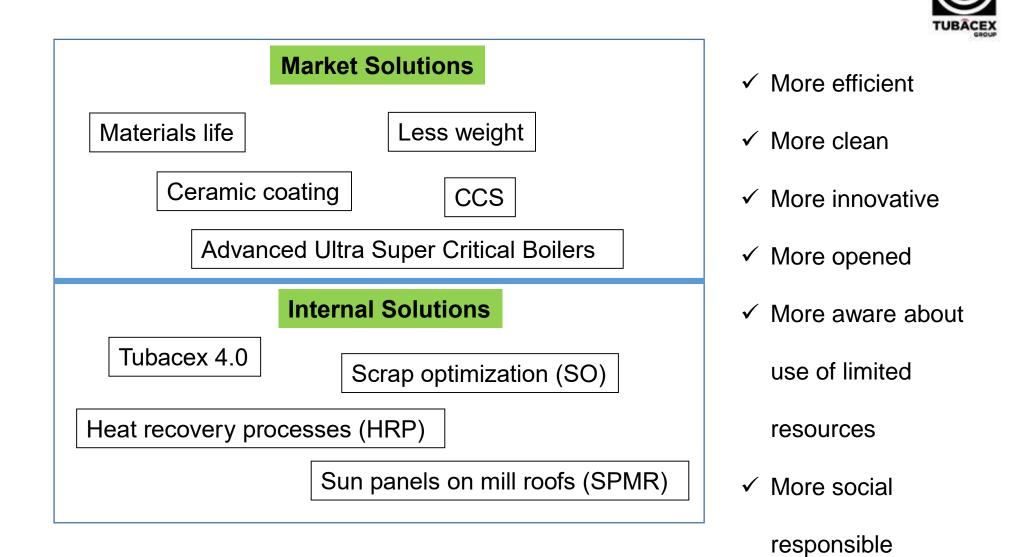




Use of material with better performance, more resistant to corrosion, high temperatures

Main challenge for the whole value chain: how to manage energy transition to more clean energy and at the same time bringing now energy to more 1,2 billion people do not have access to any energy

Some examples roadmap Tubacex Group



Ceramic coating solution example

Opex Optimization



Lower maintenance
Higher lifetime
Improve efficiency



TUBACOAT



- Smooth
- Anti-adherent
- Passive

Advanced ceramic coatings to improve the functionality



Several innovation concepts are being discussed with customers and validated:

- New materials
- Powder technology and Additive manufacturing
- Mechanical connections and welding technology
- Integrated sensors
- Digitalization



Internal R&D capability available to collaborate in research projects driven by customers and partners around the world.



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