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# Corporate presentation 2023

# CENERGY HOLDINGS

## Focus on Energy

**VIOHALCO**

Revenue  
in EUR Billion

**6.99**  
2022

a-EBITDA  
in EUR million

**649**  
2022

Aluminium

Copper

 **ELVALHALCOR**

Cables

 **HELLENIC CABLES**  
Member of CENERGY HOLDINGS

Steel pipes

 **CORINTH PIPEWORKS**

Steel

Real estate

Technology and R&D&I

  
**CENERGY**  
H O L D I N G S

Revenue  
in EUR Billion

**1.43**  
2022

a-EBITDA  
in EUR million

**137**  
2022



# At a GLANCE



More than  
**50**  
Years of  
experience



Sales in  
**45**  
countries  
Leader in energy



Tier 1  
supplier  
  
> 23,000 km pipelines  
> 4,000 km offshore pipelines  
> 1,000 km CO<sub>2</sub> pipelines



Investments  
**364**  
Million €  
\* 1998-2022

\* 2002-2022



# Energy Transition

Enabling the future

## Gas Leading position

Natural gas is considered the transitional mean to clean energy, producing around half the carbon dioxide (CO<sub>2</sub>) and just one tenth of the air pollutants of coal when burnt to generate electricity.

It is a versatile energy sources, helping to meet the growing demand for energy globally and able to partner with renewable energy sources.

We are considered one of the **top manufacturers for gas pipelines** worldwide

## Hydrogen Technology & Innovation

Hydrogen is considered the cleanest fuel of the future. We are the **first pipe manufacturer** to certify pipes for the safe transportation of hydrogen in high pressure network up to **100% of hydrogen**

European Clean  
Hydrogen Alliance



## CCS Carbon Capture & Storage Long experience

Carbon capture and storage technology prevents the release of carbon dioxide into the atmosphere resulting from the combustion of fossil fuels or industrial processes.

We have successfully delivered more than 1,150km of **CO<sub>2</sub> transmission pipelines** and are ready to face any new challenge

## Wind

Today, wind energy offers a technologically mature, economically competitive and environmentally friendly energy choice. It is an inexhaustible source of energy, without an environmental burden. The wind energy sector is one of the fastest growing energy technologies, especially in offshore wind farms and dynamically in floating wind farms.

The company is evaluating the entrance in this dynamic sector

 **CORINTH PIPEWORKS**  
Member of CENERGY HOLDINGS



# Sustainability Strategy

ESG risks mitigation is a priority for the company's responsible operation

> Responsible supply  
Ecovadis Silver Award



**Top 25%**  
of more than 100,000  
accessed companies

> Climate Actions



> Digitalizing to create  
value in Sustainability



## We commit

### Scope 1 & 2

Emissions

**-50% (2030)**

### Scope 3

Emissions

**100% (2025)**

**of main suppliers**

Assess and prioritize suppliers with  
announced emissions reduction targets

### RES electricity

**80% (2025)**

**100% (2030)**

### Standardization

**ISO 14001:2015**

**ISO 14064:2018**

**ISO 50001:2018**

### EPD

Certify Environmental Product Declarations for  
all major product categories

# Developing the Hydrogen infrastructure of the future

Our technologically advanced solution for hydrogen certified pipes, is highlighted with the utilization of a new, state-of-the-art, hydrogen testing laboratory.



SNAM: They are the first, newly manufactured, pipes certified to transport up to 100% hydrogen for a high-pressure transmission gas pipeline in Europe.

*Country: Italia*



DESFA: West Macedonia pipeline is part of the European Hydrogen Backbone, Europe's hydrogen infrastructure needed to achieve its climate and energy objectives.

*Country: Greece*



GAZSYSTEM: a high-pressure gas pipeline from Gustorzyn to Wronow.

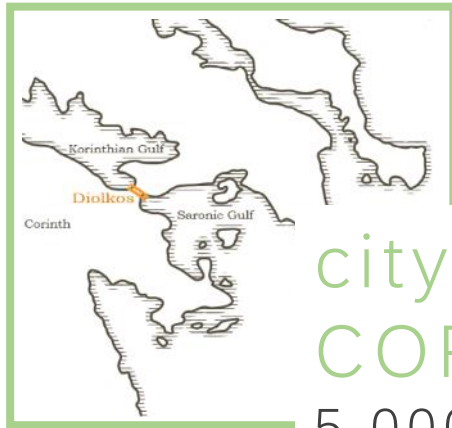
*Country: Poland*



JEMENA: Jemena has selected to utilize Corinth's solution of high-grade steel pipes for the future transmission of up to 100% hydrogen.

*Country: Australia*



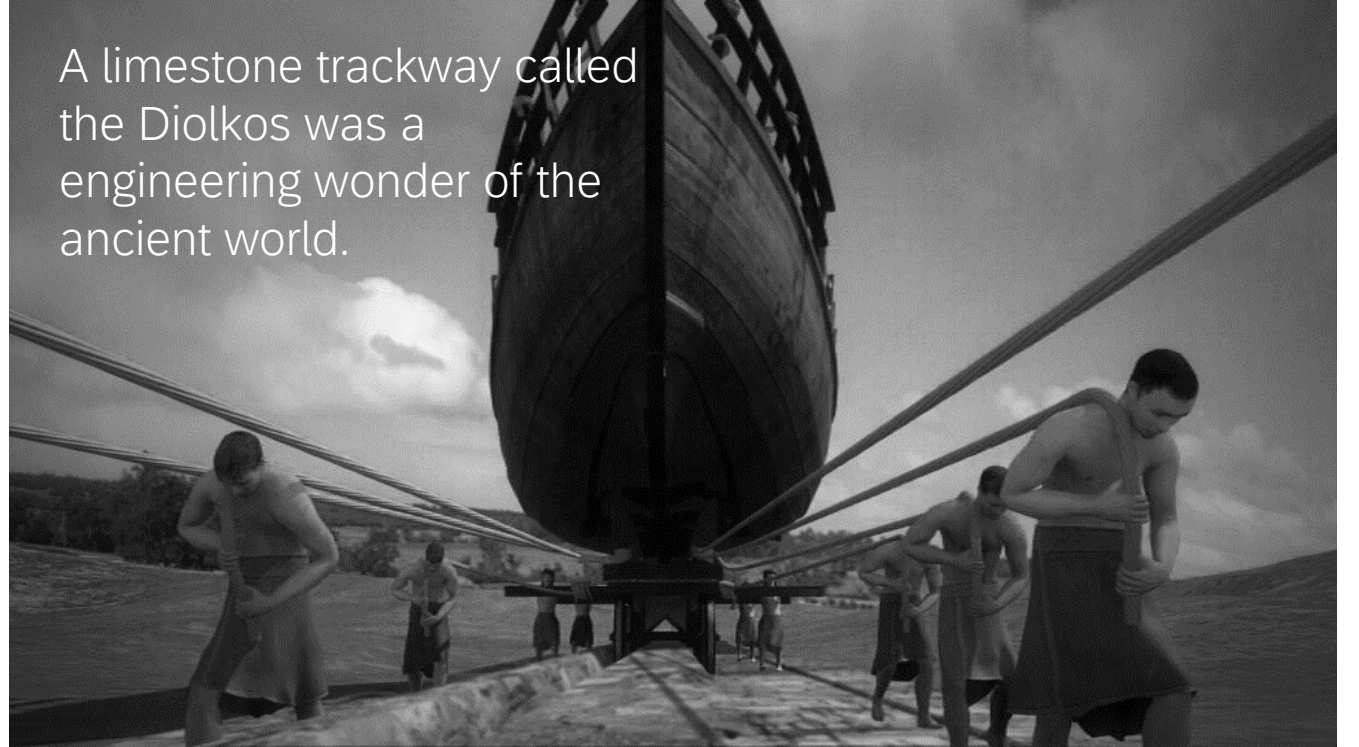


city of  
**CORINTH**  
5.000 years  
of history

Ancient Corinth



A limestone trackway called the Diolkos was an engineering wonder of the ancient world.



# HISTORY

The implementation of strategic investments, combined with the participation in major and demanding projects, firmly establish the Company internationally. Corinth Pipeworks Holdings SA is absorbed by Cenergy Holdings SA.

Foundation

1960's

Going International

1970's

Growth

1980's

International Recognition

1990's

Investments are made to upgrade production processes and the first orders from North America, Asia, Europe, North Africa and the Middle East are undertaken.

The company is ready for the shift, based on its long experience in gas fuels and CCS and investing in the main pillars of the energy transition (hydrogen & wind)

Invest in the Future

2000's

Corinth Pipeworks establishes new, state-of-the-art production facilities in Thisvi, Viotia. The Company also successfully implements a business process re-engineering program and publishes its first Sustainability Report.

Established Tier 1 supplier

2010's

Energy Transition Enabler

2020's



# Our plant



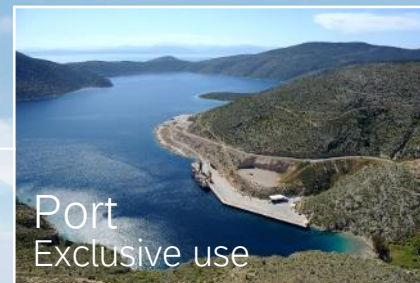
Thisvi plant, Viotia  
125km from Athens



Headquarters  
Marousi, Athens



All you need in  
One location



### Pipe Mills

HFIW 8 5/8" – 26"  
400 KMT/year

HFIW 2" – 7 5/8"  
150 KMT/year

LSAW 16" – 56"  
400 KMT/year

HS AW 24" – 100"  
375 KMT/year

### Coating Solutions

External  
8" – 100"  
4 1/2" – 48"

Internal  
8 5/8" – 56"

CWC  
8 5/8" – 40"

### Supporting/Downstream

Port facilities (exclusive use)

Double jointing facility

Weld on Connectors: 5,000Tn/shift/year

Laboratory (+ sour service conditions)

Storage areas



# Our business

## Gas & liquid fuel



Onshore  
pipelines



Offshore  
pipelines



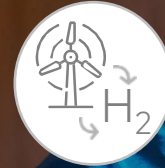
Drilling &  
extraction

## Construction



Hollow  
sections

## Hydrogen



Hydrogen  
certified pipelines

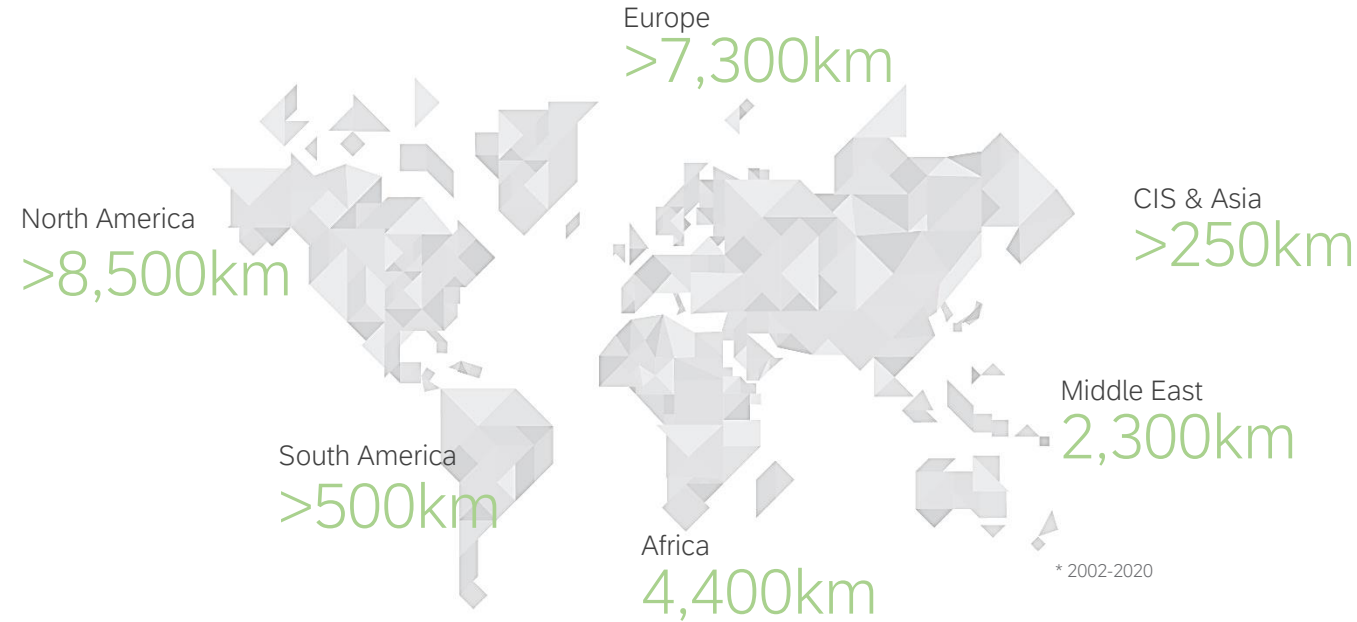
## CCS

Carbon Capture Storage



CO<sub>2</sub> pipelines

# Global presence





# Latest Awards



CHEVRON Tamar opt. project, Israel – 155 km  
20" SAWL Pipeline



TOTAL AUSTRAL-Fenix, Argentina - 40km of gas pipeline  
SAWL Pipeline Coating: 3LPE/ROUGH +CWC



Shell Crux, Australia – 157 km  
26" SAWL Pipeline



Shell Jackdaw, UK – 31km  
HFW pipes / Coating: 3LPP



HANZ project in the Norway  
Reel lay using HFW pipes / Coating: 3LPP



Alexandroupolis FSRU pipeline - 30km gas pipeline Greece  
SAWL Pipeline Coating: 3LPE/ROUGH +CWC



Collahuasi, Chile – 201km  
44" SAWL Pipeline / Coating



West Macedonia / HYDROGEN certified, Greece – 163km  
SAWL + HFI Pipes / Coating



Gustorzyn – Wronow, Poland - 80km of gas pipelines  
HFIW & SAWL Pipelines Coating: PE/EPOXY



440km of gas pipelines – HYDROGEN certified  
HFIW & SAWL Pipelines Coating: PE/EPOXY



Colibri Shell, Trinidad & Tobago - 93km  
HFIW X65 16"x18,3mm Coating: FBE



2nd award from Energinet (LOT3)  
142km LSAW/HS AW L485 32"-36"-40" , 3LPE/Epoxy





> Karish gas export pipeline  
SE Mediterranean  
Gas, Offshore deep (max 1.750m)  
100 Km



> Baltic Interconnectors  
& Polish network  
Denmark, Finland,  
Estonia, Poland  
Gas >450 Km



> Trans Adriatic Pipeline  
Greece, Gas, Onshore gas  
495 Km



> Plains all American  
USA, Onshore oil & gas  
> 2,000 Km



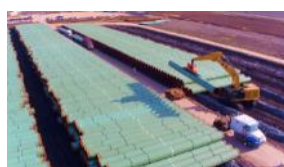
> Reel lay projects  
North & Norwegian sea  
Gas & carrier, Offshore reel lay  
>900km



> GoM offshore projects  
Gulf of Mexico  
Gas & carrier, Offshore  
230 Km

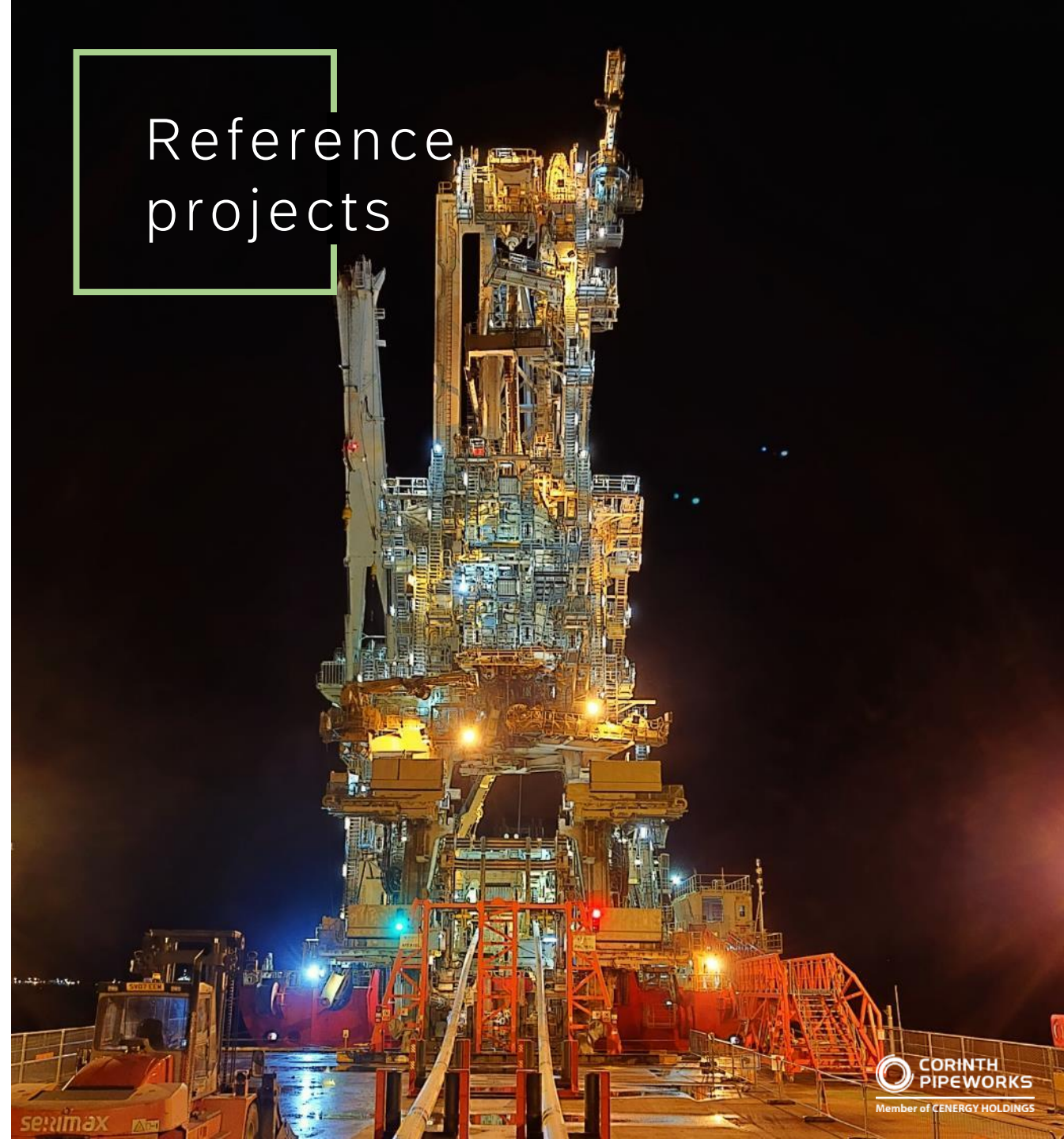


> Snam projects  
Italy, Gas, onshore  
>1,200km



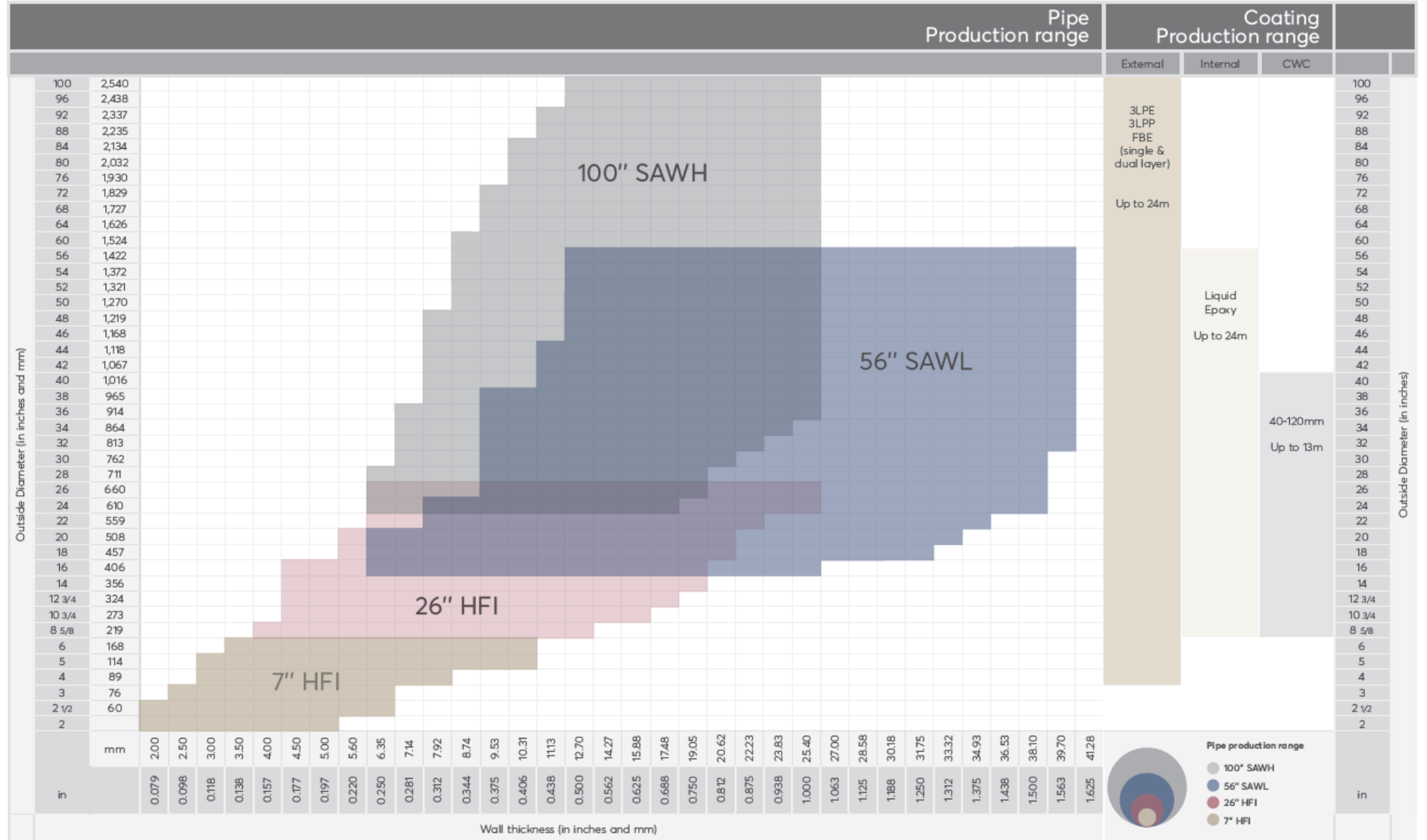
> Energy Transfer  
USA, Onshore gas  
> 1,000 Km

# Reference projects





# Production range



# Our Advantages

SAWL pipes for  
deep offshore  
pipelines

Diameter  
from 16"

Pipe length  
up to 24,4m

**Demanding**  
applications

- > Reel-laying
- > CO<sub>2</sub> pipelines
- > Sour service

Pipe length  
up to 24,4m

Copyright Wintershall

One of the  
**widest production ranges**  
in the world

100" SAWH

56" SAWL

26" HFIW

8" HFIW

Copyright T

**Integrated services**

Coating (Int-Ext)  
Concrete Weight Coating CWC  
Double jointing  
Project management  
Logistics  
etc.

**Port facilities**

Exclusive use



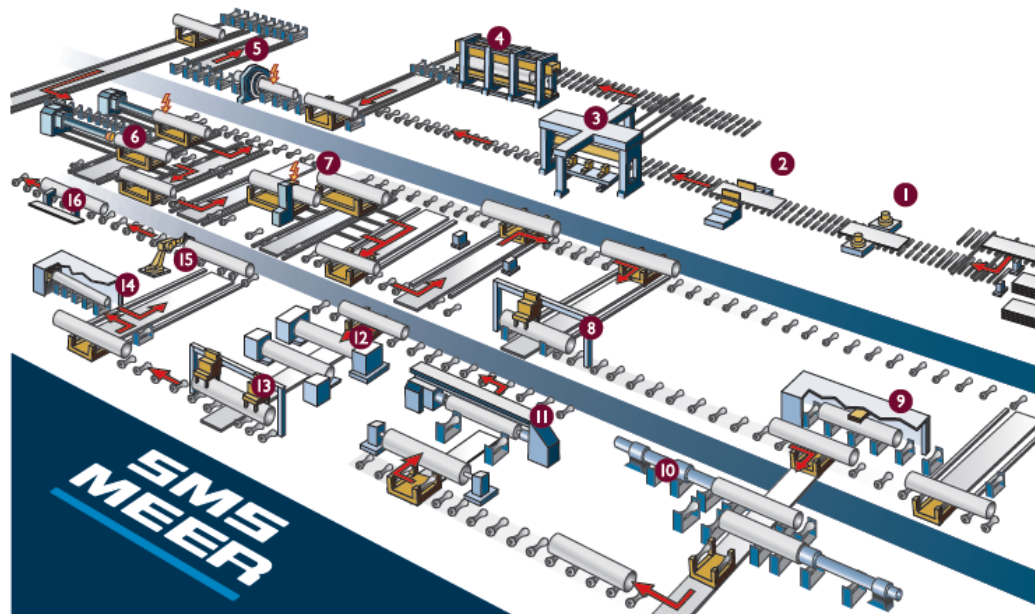


# Pipe mills

## LSAW 56"

### Production capabilities

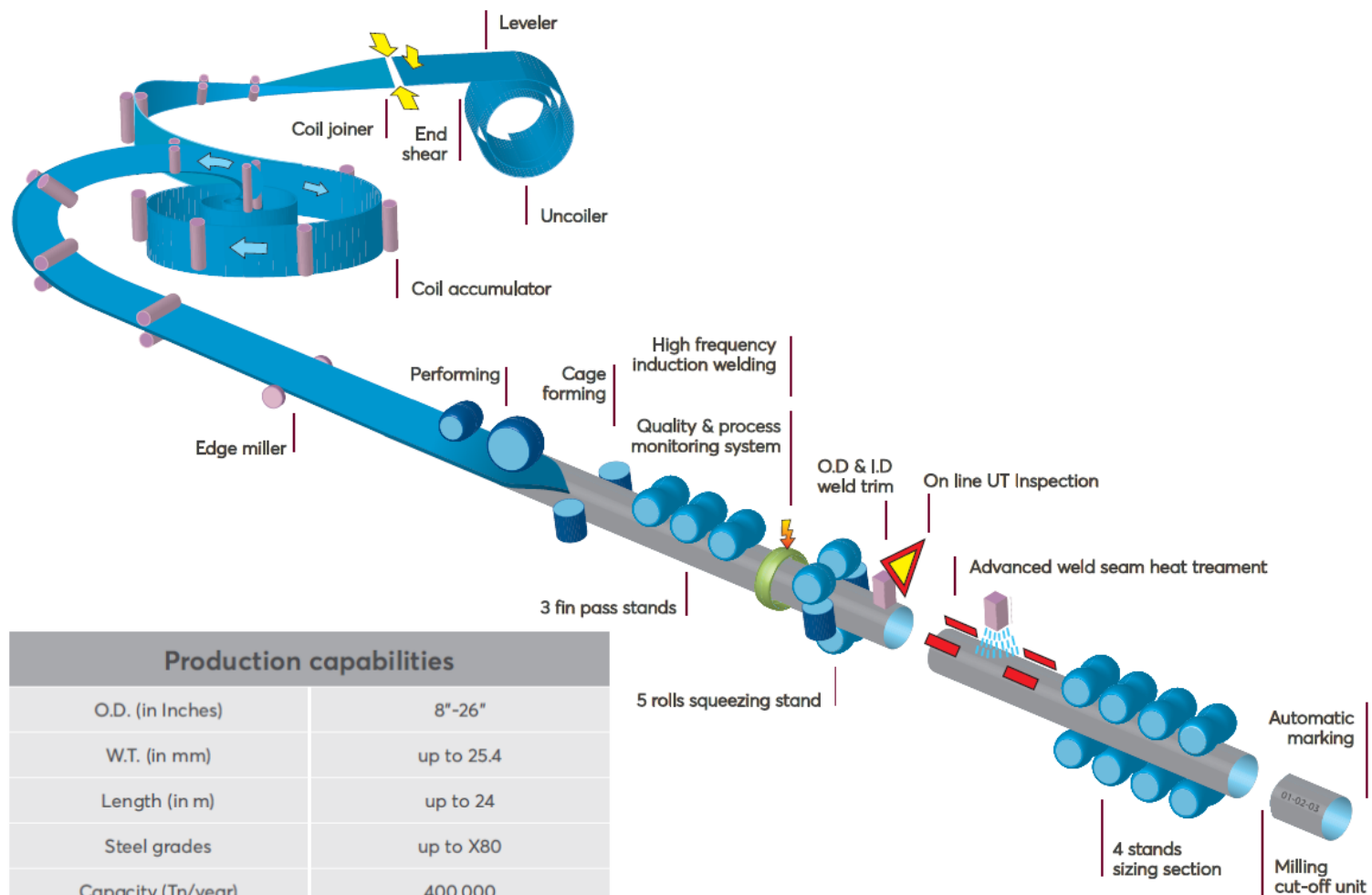
O.D. (in Inches)	16"-56"
W.T. (in mm)	up to 40
Length (in m)	up to 18.3
Steel grades	up to X100
Capacity (Tn/year)	400,000
Standards & specifications	API 5L, EN ISO 3183, DNVGL ST F101, EN 10219



- 1 Plate edge milling
- 2 Crimping of plate edges
- 3 JCO-press
- 4 Finishing press
- 5 Tack welding (temporary seam)
- 6 Inside welding (ID)
- 7 Outside welding (OD)
- 8 Ultrasonic testing I
- 9 X-ray testing I
- 10 Mechanical expansion
- 11 Hydrostatic pipe testing
- 12 Pipe end bevelling
- 13 Ultrasonic testing II
- 14 X-ray testing II

# Pipe mills

## ERW/HFI 26"



### Production capabilities

O.D. (in Inches)	8"-26"
W.T. (in mm)	up to 25.4
Length (in m)	up to 24
Steel grades	up to X80
Capacity (Tn/year)	400,000

Standards & specifications

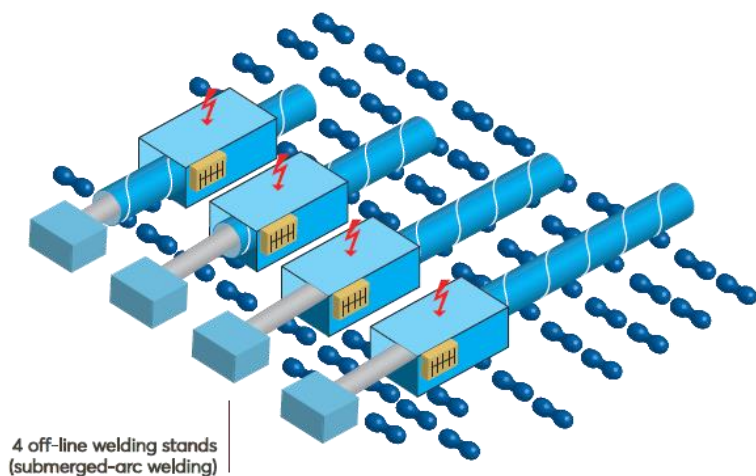
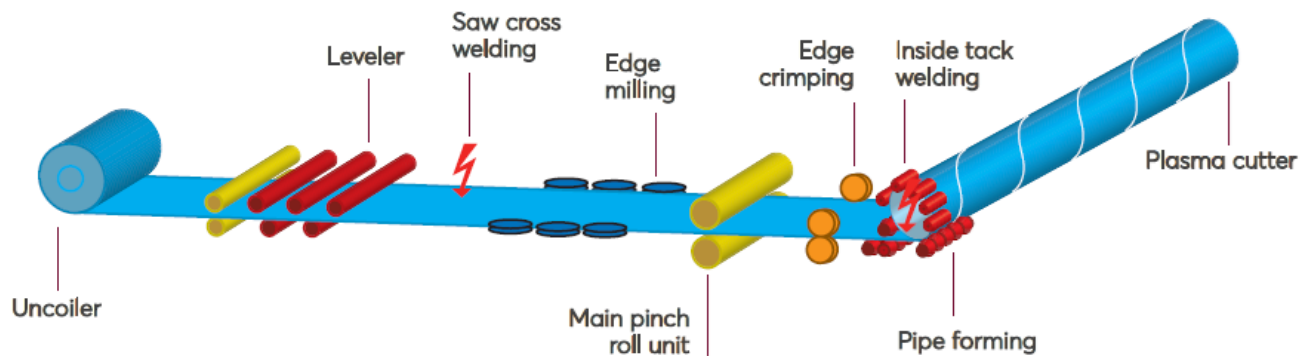
API 5L, API 5CT, EN ISO 3183, DNVGL ST F101, EN 10219





# Pipe mills

## HSAW 100"



### Production capabilities

O.D. (in Inches)	24"-100"
W.T. (in mm)	up to 25.4
Length (in m)	up to 18.3
Steel grades	up to X80
Capacity (Tn/year)	375,000
Standards & specifications	API 5L, EN ISO 3183, EN 10219



# Coating mills

External  
3LPE  
3LPP  
FBE  
FBE/ARO  
CWC

Internal  
Epoxy

Coating and lining facilities			
	External coating		Internal coating
	TCP 48	TCP 100	TLP 56
Outside diameter (inch)	4 1/2"-48"	8 5/8"-100"	8 5/8"-56"
Max. Length (m)	18.3 m	24 m	24 m
Types	3LPE, 3LPP, FBE (single or dual layer)		Liquid epoxy
Capacity (per year)	7,000,000 m <sup>2</sup>		2,000,000 m <sup>2</sup>

Coating application process					
Specification	External coating				Internal coating
	3LPE	3LPP	FBE	FBE/ARO	EPOXY
ISO 21809-1	•	•			
ISO 21809-2			•		
DIN 30670	•				
DIN 30678		•			
DNVGL-RP-F106	•	•	•		
NFA 49-710	•				
NFA 49-711		•			
SHELL DEP	•	•	•	•	•
CAN CSA Z245.20-21	•		•	•	
API RP 5L2					•
ISO 15741					•
AWWA C210					•
EN 10301					•

Concrete weight coating	
Application method:	Compression
Outside diameter (inch)	8 5/8"-40"
Max. length (m)	13
Concrete thickness (mm)	40-120
Specification	ISO 21809-5





## Strategic cooperation with steel producers



DILLINGER HÜTTE

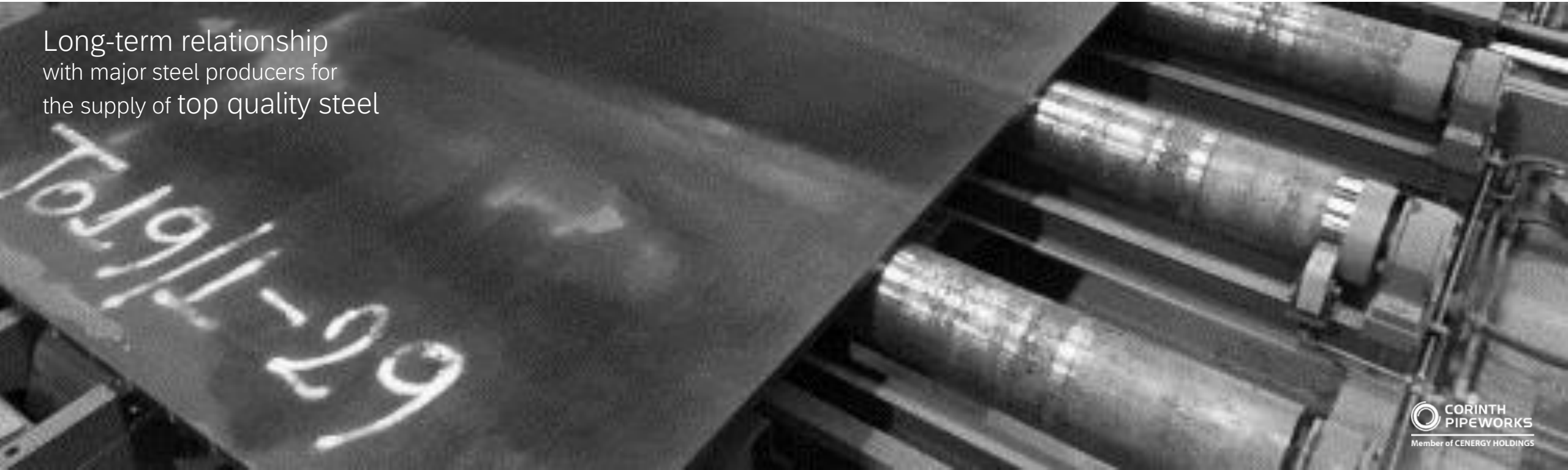
voestalpine



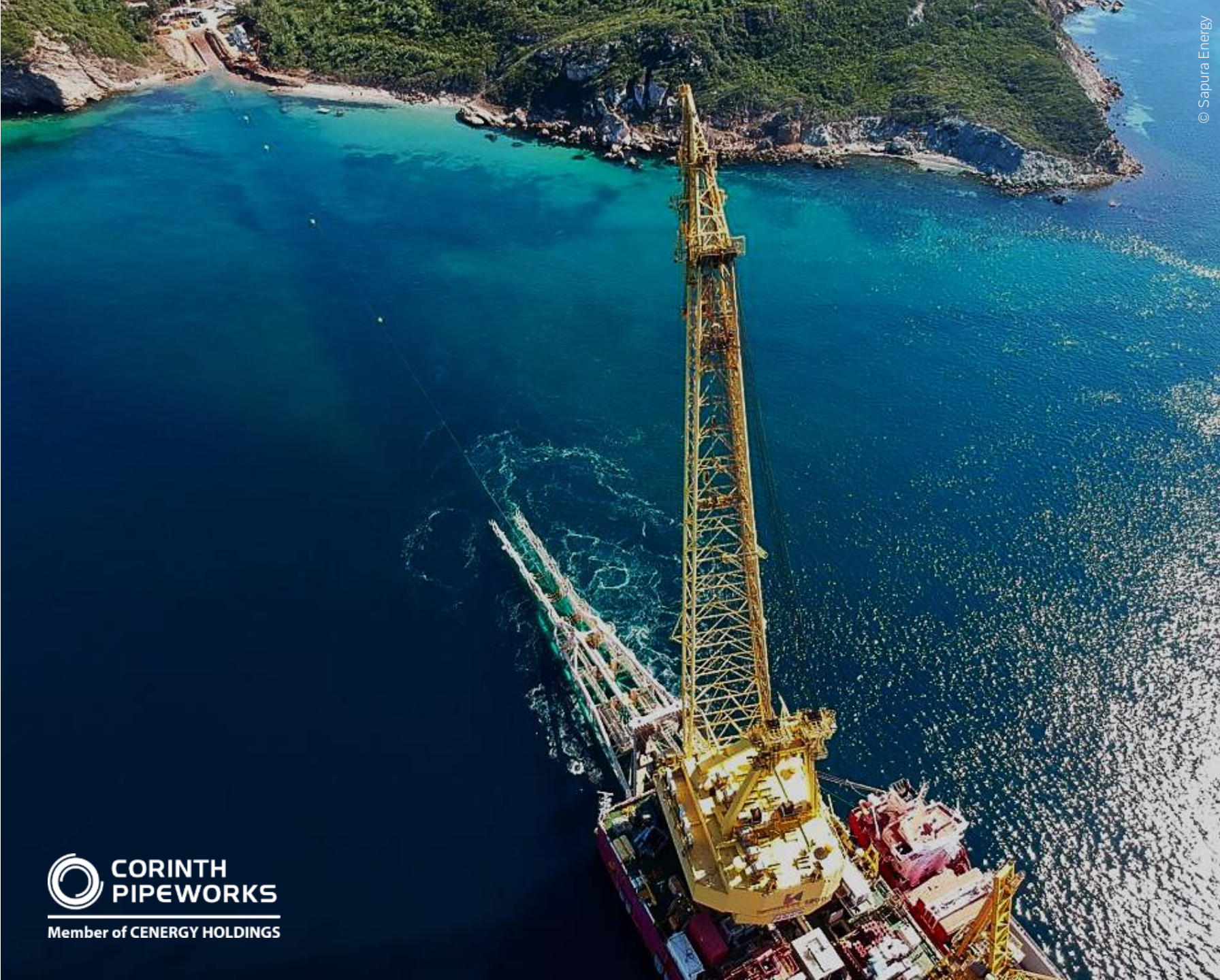
NIPPON STEEL &  
SUMITOMO METAL



Long-term relationship  
with major steel producers for  
the supply of top quality steel







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