



# Company profile

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Delivering energy  
to the world





We are proud to deliver energy to the world

## Company profile

Corinth Pipeworks is one of the world's leading manufacturers of steel pipes and hollow sections for the energy and construction sectors. With a successful course and experience of more than half a century, it has implemented very demanding projects with leading energy companies worldwide.

The Company is ready for the energy transformation and is committed in making a positive contribution to the energy transition and to tackle climate change, through the development of innovative products and the reduction of the carbon footprint of our production activities.


Corinth Pipeworks is the steel pipe segment of Cenergy Holdings, a holding company of several leading metal processing companies across Europe a subsidiary of Viohalco S.A. The Company invests in industrial companies positioned at the forefront of high growth sectors, such as energy and telecommunications.

@BSOG

 More than **50** years of experience

 Sales in **45** countries

 Investments **364** Million €

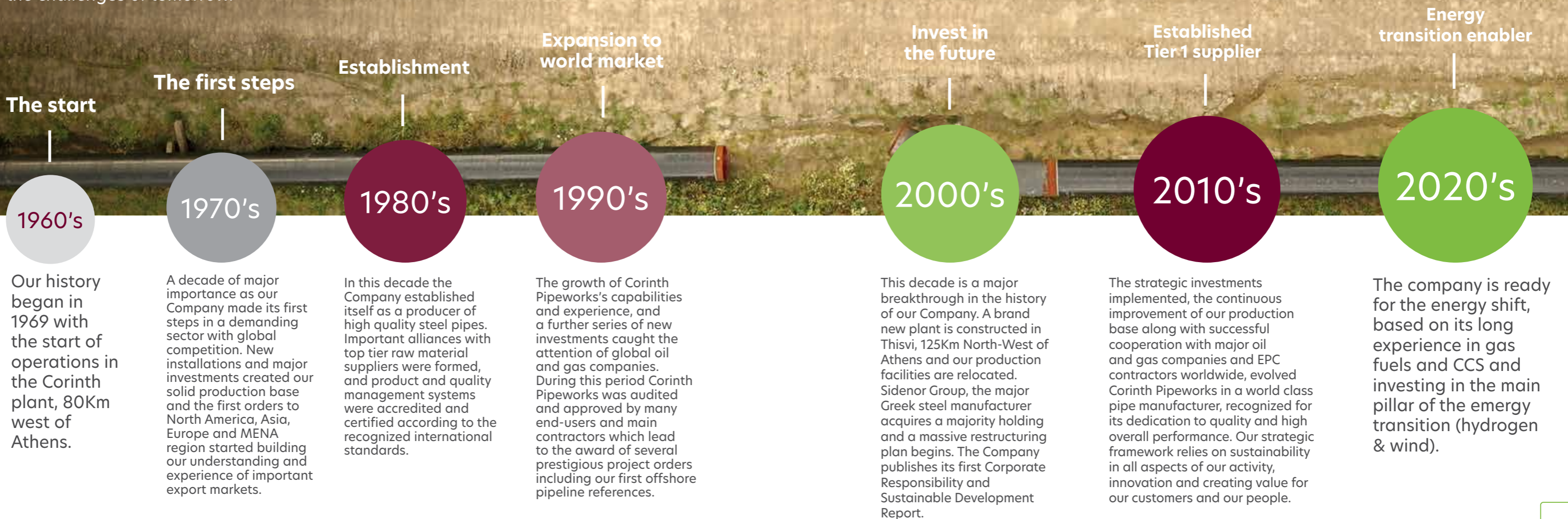
 **925,000** Annual capacity in tons of pipes

“We are a reliable partner to turn plans into reality.”



# History

Investments in the latest technology and the pursuit of excellence culture of our people, makes us ready to face the challenges of tomorrow.



@BSOG

# Our strategy to the future of energy

Climate change is a determining factor, as energy consumption is responsible for about two-thirds of global greenhouse gas emissions.

We envision our future as a net zero-carbon emissions company making a significant contribution to a climate-neutral society. The technological solutions provided by our products allow the increasing use of renewable sources in the energy mix and the successful penetration of hydrogen technologies.

We are committed in making a positive contribution to the energy transition and to tackle climate change, through the development of innovative products and the reduction of the carbon footprint of our production activities.

Through new technological solutions that allow the increasing use of renewable sources in the energy mix and the successful penetration of hydrogen technologies, carbon capture and storage, as well as energy storage, Corinth Pipeworks is ready for the energy shift.

The technological solutions provided by our products focus on the main pillars of energy transition which are:



Corinth Pipeworks has extensive experience and a strong track record of implementing complex projects for the energy sector worldwide, both onshore and offshore. The Company offers one of the widest product ranges in the industry, as well as top-quality tailor-made solutions to demanding projects.

Combining cutting-edge technology, advanced machinery and equipment with a unique team of experts, eager to respond and find solutions to custom



At the forefront of technological innovation, our research and development in the field of hydrogen transportation, through existing or new energy networks, developing technology and new products will enable the clean transformation to a coal-free, clean energy economy. As a result, Corinth Pipeworks along with international energy infrastructure companies is leading the hydrogen era with the first high pressure gas pipeline network, certified to transport up to 100% hydrogen. At the same time, we are one of the first companies, globally, to participate in the European Alliance for Pure Hydrogen (Hydrogen Alliance) as well as in Hydrogen Europe.

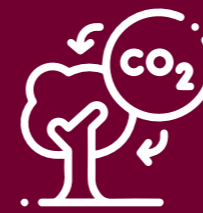


For the last 15 years the Company has produced CO<sub>2</sub> transmission pipelines with a total length of over 1,150 km and is ready to face any new challenge in the immediate production of products that will allow the application of this technology on a large scale.



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 parks and dynamically in floating wind parks. Steel products are broadly used in these dynamically developing sectors fit our competencies and are under study, fully in line with the company's diversification strategy.

# Megatrends adapting the challenges



## Carbon footprint, our commitments

The Company closely follows the initiatives and commitments as set out in the European Green Deal and takes the necessary measures in its production processes and in close cooperation with its supply chain with the view to reduce its environmental impact and carbon footprint. Furthermore, the Company carries out environmental protection training in all aspects of operational environmental protection, from waste management and disposal to water quality issues.



## Energy Efficiency

Corinth Pipeworks uses operational excellence practices at a pilot level that cover a wide range of best energy efficiency applications and was recognized through the Energy Mastering Awards 2019. In addition, for the smooth operation of the equipment and machinery, the Company invested in the transmission of electricity through a High voltage Station. Through this investment the Company will immediately achieve reduction of carbon emissions. Furthermore, the company implements a certified Energy Management System, in accordance with the international standard ISO 50001:2018.



## Supply Chain

We care to deliver a positive social impact, which indicates the importance of responsible sourcing. Our company wide cultural effort is to accelerate the shift to responsible sourcing, as supply chain can have a substantial impact on the overall environmental and social footprint, as well as transparency as it relates to labor and human capital.



## Circular Economy

Corinth Pipeworks is committed to act in a sustainable manner and to assist the transition to a low carbon, circular economy. We are launching actions to create a circular future by utilizing wastes or by-products and generate industrial value-added products. A successful initiative that has been undertaken in conjunction with our partners Wasco Energy Group and AEIFOROS S.A., is the use of Electric arc furnace (EAF) slag, in special concrete applications such as heavy concrete for the coating of pipes for offshore pipelines.



## Electricity from RES

We aim to fully cover our needs for electricity directly from renewable sources, a commitment set by the company's management. To this direction and until this option is available, we cover 100% of our electricity with the purchase of GOs (Guarantees of Origin).

# Integrated services

- > Port facilities (exclusive use)
- > Laboratory (including hydrogen & sour service)
- > Coating (internal-external)
- > Concrete Weight Coating
- > Double jointing
- > Project management
- > Logistics, etc.



# All you need in one location

Corinth Pipeworks has risen to become a world leading manufacturer of steel pipes and hollow sections to the energy and construction sectors. We have managed this as a result of our ability to combine our strong customer focused approach with an optimum balance of technical capability and commercial competitiveness.

# Demanding applications

SAWL pipes for deep offshore pipelines

- > Hydrogen certified linepipes
- > CO<sub>2</sub> pipelines
- > Reel laying expert (HFI & LSAW)
- > Sour service

# One of the widest production ranges in the world

Pipe length up to 24.4m

Pipe production range



# Our global presence

Corinth Pipeworks is a global leader in steel pipeline solutions for the energy and construction markets.

Decades of experience provide an in-depth understanding of what our clients expect.

The Company's ability to add value to a client's project whether the application is a challenging offshore subsea flow line, a high criticality onshore gas transmission pipeline, transportation of 100% hydrogen at high pressures through large diameter/high strength steel pipelines, or a specialized structural steel requirement.

North America  
> 8,500Km

South America  
> 300Km

Europe  
> 7,000Km

CIS & Asia  
> 250Km

Africa  
4,400Km

Middle East  
2,300Km

# Our customers

- Total Energies
- JEMENA
- DESFA S.A.
- Aker BP
- GAZ - SYSTEM
- COMPANIA MINERA DONA INES DE COLLAHUASI
- INGL
- ANGLO AMERICAN

- NET4GAS
- BALTIC CONNECTOR OY
- BLACK SEA OIL & GAS SRL
- Energean
- Sasol
- ConocoPhillips
- Chevron
- Shell
- Exxon Mobil

- TechnipFMC
- Subsea 7
- Saipem
- Allseas
- Noble Energy
- Plains All American
- Williams
- Gaz System
- Perenco

- Wintershall
- GRTGAZ
- Snam
- EDF
- TIGF
- National Grid
- RWE
- Spectra Energy
- Energy Transfer

- Denbury Resources
- Saudi Aramco
- DCP Midstream
- Qatar Petroleum
- GASCO
- KPO
- MRC Global
- Spartan
- Enbridge

- Cheniere Energy
- DNOW
- STEG
- Sonatrach
- PDO
- OGC



Corinth Pipeworks has the ability to add value to clients' projects, whether the application is:



High depth offshore pipelines of high-end specifications

## Value adding services



Demanding onshore gas and liquid fuels pipelines



### Ultra long lengths & tolerances

Our company is one of the very few in the world that offer ERW/HFI pipes with a length up to 24m and SAWL & SAWH pipes up to 18,3m. Our modern manufacturing mills are able to guarantee upon request much tighter dimensional tolerances on key parameters such as out-of-roundness on pipe ends and pipe body, pipe wall thickness, and pipe straightness.

### Own port & storage

We have an exclusive use port with 3 docks, just 1,5Km from our plant, giving us the advantage of importing raw materials and exporting our products with no surprises and minimum delays. This port is a well-organized port providing accuracy of operations and safety for both people and products. The port is equipped with the necessary equipment such as dock and harbor cranes, forklifts etc. We also offer storage of finished or semi-finished products either at our Thisvi facility in Greece, or at other agreed locations as required by our client.

### All you need in one location

We are one of the few steel pipe manufacturers in the world that can offer all available welded pipe manufacturing methods with a range up to 100", external and internal coating, concrete weight coating, storage, own port facilities and downstream services in one place. Corinth Pipeworks is a value-adding partner and a trustworthy supplier... to your success.



Pipes for hydrogen transportation

### Hydrogen lab

Corinth Pipeworks is leading the development for the energy market and takes action to provide solutions for the European Hydrogen Backbone scheme and the increasing needs of our clients for hydrogen certification of new pipelines. Our, state of the art, hydrogen laboratory has been designed to test pipeline material in hydrogen gas in pure or blended form under static load conditions and high pressure (up to 207bar), in full compliance with the requirements of the ASME B31.12 code. This new facility will support primarily qualification testing of new hydrogen pipeline projects, as well as R&D testing. New development plans for 2022 include the further upgrade of the hydrogen lab for fracture toughness testing under rising load conditions and evaluation of fatigue resistance.

### Offshore: Set up for success

State of the art SAWL and HFI pipe manufacturing, innovative real-time control in the forming process, outstanding geometrical characteristics, quality assurance using the latest technology in non-destructive testing and dimensional measuring systems, combined with years of experience and long-term cooperation with the top steel manufacturers. Anti-corrosion coating, concrete weight coating and test laboratories complete the full scope of work. We are well equipped... to go deep.

### Project management & multimodal delivery to site

We safely and efficiently deliver pipes by sea, rail, and road to our customer's storage yard, fabrication site or spool base for many years. We have hands-on experience of multi-modal transport, regulatory requirements and associated delivery documentation requirements to over 40 countries across the globe, often under very challenging conditions and with very basic facilities. As part of our overall project management plan, we prepare a detailed logistics proposal which ensures a step by step plan for the safe transit and delivery of all items within our scope to the agreed delivery location.

Specialized, hollow sections



# Onshore pipelines and demanding applications

“Our people tailor our wide range of services to meet your requirements handle any circumstances and deliver on time.”

## Onshore pipelines

We offer all sizes and grades of pipe used for onshore gas and oil pipelines, downstream CO<sub>2</sub> reinjection, petrochemical and fuel transportation lines.

Our pipes are in compliance with all major international standards used for onshore applications such as API 5L, ISO 3183 and CSA Z245.1, supplemented where necessary by additional client specification requirements.

Pipes can also be supplied with external anti-corrosion coatings and internal linings such as FBE single and dual layer, three layer PE/PP and internal epoxy lining for flow efficiency and/or anticorrosion protection. Pipe length can reach 24m and give significant cost benefit in the final laying phase.

## Sour service

The development of new fields and reserves in harsh environments worldwide is needed in order to reach new energy resources. Sour service pipelines transporting gas having high concentration of H<sub>2</sub>S need advanced properties to withstand hydrogen induced cracking (HIC) and Sulfide Stress Corrosion Cracking (SSCC).

Our experienced technical team, our cooperation in the development of steel grades with top steel suppliers, state of the art equipment and our in-house HIC laboratory facilities guarantee top performance in the realization of such highly demanding projects.

“You can find our products and satisfied customers all over the world.”

# Offshore pipelines

All around the world new pipeline projects are being developed offshore, often in very harsh environments involving very low temperatures, sour conditions, or deepwater where pipes require improved collapse resistance.

We have specifically developed our range of welded linepipe products to satisfy just such onerous conditions and now have a strong track record of supply for a range of subsea applications including linepipe for subsea-tie backs to existing facilities installed by the reel-lay method, and major export pipelines for new field developments installed by S or J lay.

Our range of pipe coatings is also tailored to offshore applications, including anti-corrosion coatings such as three layer polypropylene or polyethylene which also offer physical protection, high performance fusion bonded epoxy coatings, epoxy lining for flow assurance, and concrete coating where needed for negative buoyancy.

Manufacturing of high quality welded pipes and pipe coating is just part of Corinth Pipeworks' capability which also includes a number of unique value adding proposals such as 24m pipe joint capability significantly reducing time and cost for on-site or lay-barge welding and field joint coating.

Class leading dimensional tolerances coupled with advanced measuring systems developed in close cooperation with end-users and installation contractors offers a detailed report on of every pipe's dimensional characteristics to give a clear advantage with reduced sorting or manipulation during offshore installation.

We make a difference to offshore projects all around the world.

“Ultra long lengths and tight dimensional characteristics are offering reduced project installation costs and improve fit up times.”

Pipe manufacturing + Coating + CWC in one location to minimize project complexity and potential damages.



Corinth Pipeworks signed the declaration "European Hydrogen Alliance", which is an integral part of its Sustainable Development Strategy, while at the same time, being in line with the Paris Agreement on climate change, sustainable development goals and the EU Green Deal.

This Alliance aims to an ambitious development of hydrogen technologies by 2030, linking hydrogen production from renewable and low carbon source to industry demands, transportation, other industries, as well as hydrogen.



Corinth Pipeworks actively supports the technological efforts and research in developing products and solutions that will bring the hydrogen era one step closer and help achieve a greener future. In this context, Corinth Pipeworks became a member of Hydrogen Europe Industry, the leading European organization that promotes hydrogen as a catalyst for a zero carbon-emissions society.

## Enabling the Hydrogen infrastructure of the future

Our goal is to contribute to the energy sector and have an impact on climate change by achieving net zero carbon emissions and developing innovative solutions that can bring the hydrogen age one step closer. Whether hydrogen is produced in offshore wind parks or in photovoltaic parks, modern solutions are needed to transport hydrogen, to the natural gas network or to the consumption end point.

At the forefront of technological innovation, our research and development in the field of hydrogen transportation, through existing or new energy networks, developing technology and new products will enable the clean transformation to a coal-free, clean energy economy. As a result, Corinth Pipeworks along with international energy infrastructure companies is leading the hydrogen era with the first high pressure gas pipeline network, certified to transport up to 100% hydrogen.



**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 (West Macedonia)**



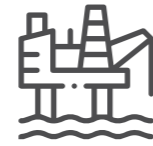
**GAZSYSTEM:**  
A high-pressure gas pipeline from Gusterzyn to Wronow.

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**



## Offshore projects

### Karish gas export pipeline

SE Mediterranean

Gas, Offshore deep (max 1.750m)

100 Km

### Reel lay projects

North & Norwegian sea

Gas & carrier, Offshore reel lay

>300 km

### Baltic Interconnectors & Polish network

Denmark, Finland, Estonia, Poland

Gas

>450 Km

### GoM offshore projects

Gulf of Mexico

Gas & carrier, Offshore

230 Km

# Major projects and long-term partnerships



## Onshore projects

### Trans Adriatic Pipeline

Greece

Gas, Onshore gas

Deliver in time big and prestigious projects with complex multimodal transportation

495 Km

### Snam projects

Italy

Gas, Onshore

including pipes certified to transport up to 100% hydrogen for a transmission gas pipeline in Europe

>1,000 km

### Plains all American

USA

Onshore oil & gas

>2,000 Km

### Collahuasi

Chile

Onshore gas

200 Km



"Finding new energy resources is a way of securing sustainable access to energy for everyone."

## OCTG, Conductors & Casing pipes

Corinth Pipeworks offers a wide range of high quality Casing & Conductor pipes, for use in all types of oil and gas drilling and well completion activities for both onshore and offshore exploration and production.

CPW's core range in casing pipes is based in the unique capabilities of our 26" HFW mill. Now combined with our new 56" LSAW line casing and conductor pipes can be supplied from grades J55 PSL1 API 5CT up to X80M in 20.62mm PSL2 API 5L (HFW) and from API5L GrB up to X70M in 38.1mm PSL2 API 5L (LSAW).

CPW's Thisvi deep water sea port within 1.5km distance from the mill, ensures high operating efficiency, reduced handling costs and improved delivery times.

Product	OD	Production Mill
Tubing	2 3/8" - 7 5/8"	ERW
Casing	8 5/8" - 24"	ERW
Conductor-Casing	24" - 36"	LSAW

# Structural tubes

## Hollow Structural Sections

CPW is serving the steel construction market with its extensive range of Structural Pipes and Hollow Structural Sections in Square, Rectangular and Round shapes, used in Architectural, Industrial and Infrastructure applications.

Our Structural Tubes family of products pushes the envelope in steel construction by providing high-strength & fine-grain steels according to EN10219, EN10225, API and ASTM standards, in a wide range of geometries and wall thickness in HFW, HSAW and LSAW production, suitable for very demanding highly-stressed steel structures such as:

- Road and Pedestrian Bridges
- Roofs, Hangars and various Superstructures widely used in airports, stadiums, shopping malls etc.
- Long-span and slender steel structures
- Cranes, booms and masts
- Earth-moving, agricultural & machinery equipment frameworks
- Road, railway-car and trailer frames
- Lighting and traffic-poles, road-sign frameworks
- Jacket foundations for offshore OG & wind power
- Offshore platform top-sides
- Jack-up rig frameworks
- Pile foundations

Our Structural Tube product-range starts from 50mm up to 500mm and 20mm WT in Square and Rectangular shapes and from 2" up to 100" in round shapes. Additionally our Structural tube QC processes builds in our production methods, implements weld-seam heat treatment, on-line Ultrasonic inspection and superior tolerance control.



Square

50x50mm-500x500mm  
max. WT: 25.4mm



Rounds

60.3mm-2,540mm(2"-100")  
max. WT: 39.7mm



Rectangular

60x40mm-600x400mm  
max. WT: 25.4mm

"We push the envelope in tube production by offering a wide range of high quality casing & structural tubes."



## Sustainability

Corinth Pipeworks has a strong commitment to operate according to sustainability principles and is very well positioned to operate and contribute to a low carbon, circular economy.

The company will continue to demonstrate sound business practices in an ethical and responsible manner while staying committed to providing a safe work environment and a continuously improving environmental footprint, while engaging and creating partnerships with our customers and community stakeholders and building a sustainable future for everyone in order to preserve long-term value for our shareholders.

The Company recognizes the precautionary principle as a factor of utmost importance to Sustainable Development and performs actions, which facilitate the management of its waste, implements measures in order to address the issues relating to climate change and ensure protection of the natural environment.

"Reducing our environmental footprint is a fundamental priority held by Corinth Pipeworks and its employees."



# Environment

- Continuous efforts for energy efficiency
- Steel mill slag used as heavy weight aggregate in concrete coating in steelpipes. Circular economy, in action.
- Continuous improvement of our environmental and carbon footprint
- Waste minimization regimes in place
- Applying responsible practices and preventive actions

# Social

- Providing a safe working environment is of critical importance.
- Protecting workforce during the pandemic crisis a top priority.
- Support local communities
- Empowering our people through continuous education programs
- Continuous improvement in material issues by investing human and capital resources

# Environment Social Governance

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


# Governance

- Internal and external due diligence mechanisms for policy compliance
- Board of Directors oversight of ESG risks
- Data privacy and protection
- Code of Conduct incorporating business ethics in company's' operation
- Track record highlighting actions for continuous improvement

# Production & port facilities

**ERW/HFI**  
  
**400,000**  
 per year

- Grade: up to X80
- Outside Diameter: 8<sup>5/8</sup>"-26"
- Wall Thickness: up to 25.4 mm
- Pipe Length: up to 24m (80')

**SAWH**  
  
**375,000**  
 per year

- Grade: up to X80
- Outside Diameter: 24"-100'
- Wall Thickness: up to 25.4mm
- Pipe Length: up to 24.4m (with Double Jointing)

**SAWL (JCOE)**  
  
**400,000**  
 per year

- Grade: up to X80 (X100 in the future)
- Outside Diameter: 16"-56"
- Wall Thickness: up to 40mm
- Pipe Length: up to 18.3m (60')

**ERW/HFI**  
  
**150,000**  
 per year

- Grade: up to S355J2H
- Outside Diameter: 2"-75/8"
- Wall Thickness: 2.0-10.0mm

## Coating

- TCP 100**
- Pipe Diameter: 85/8"-100"
  - Max pipe length: 24m

- TCP 48**
- Pipe Diameter: 41/2"-48"
  - Max pipe length: 18.3m

**7,000,000 m<sup>2</sup>**  
per year

## Lining

- TLP 56**
- Pipe Diameter: 85/8"-56"
  - Max pipe length: 24m

**2,000,000 m<sup>2</sup>**  
per year

## CWC

- Outside pipe diameter: 85/8"-40"
- Max pipe length: 13m
- Concrete thickness: 40-120mm

**Connectors**  
  
**5,000**  
 /shift/year

- Connector Grade: up to X100 (pipe grade : up to X80)
- Joint length range: 3-18m

## Port facilities (exclusive use)



Port facilities (exclusive use)

ERW/HFI Pipe mill

Weld on Connectors

Laboratory (sour service + hydrogen)

ERW/HFI Pipe mill

Storage areas

SAWL/JCOE Pipe mill

Laboratory for HIC

SAWH Pipe mill

Coating (2 mills)

Double jointing welding plant

Lining mill

Storage areas

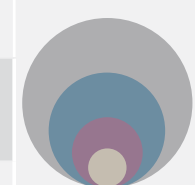
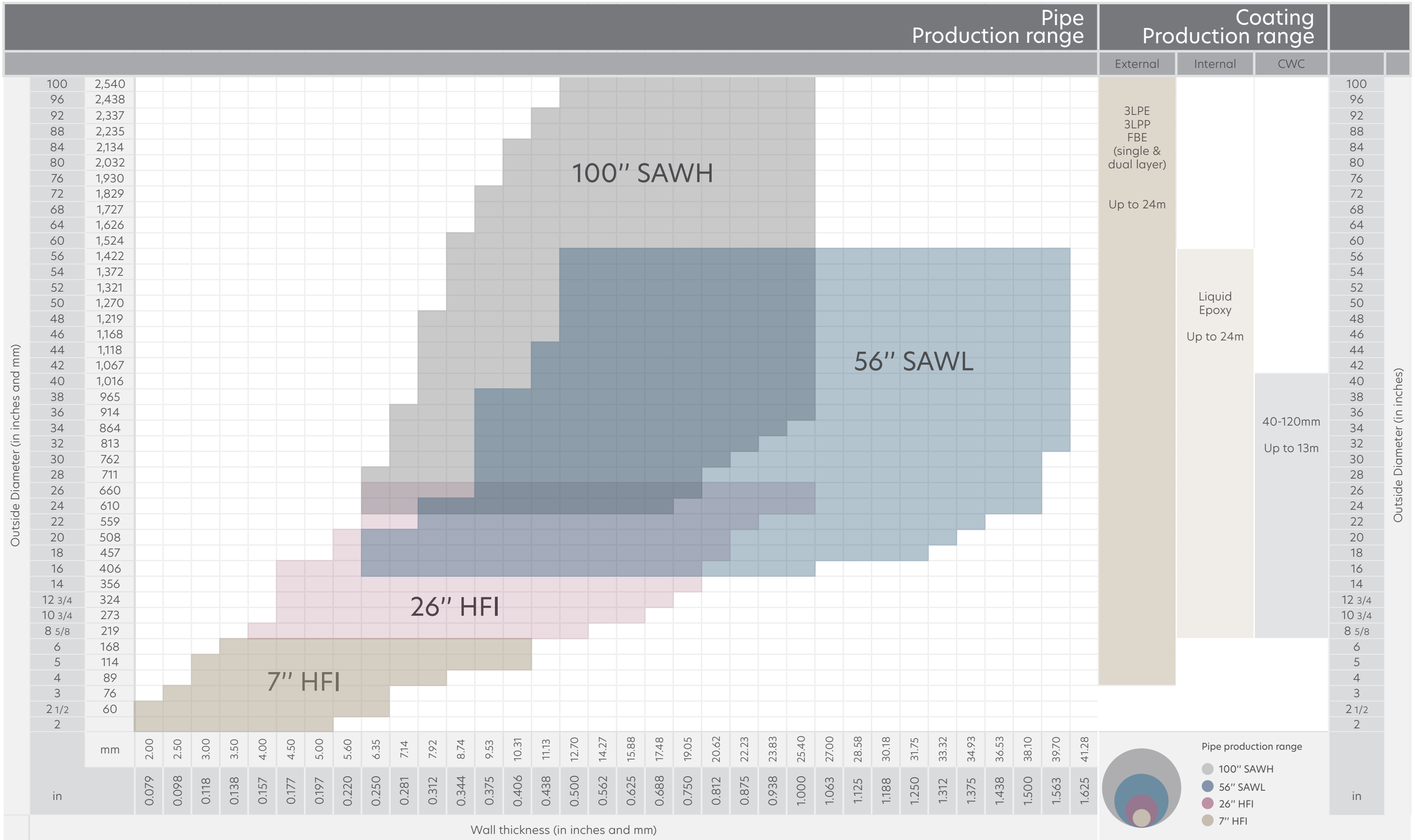


CWC Plant

# All welded pipes manufacturing methods

Pipe production, test labs, coatings and port in one site to decrease project complexity, simplify communication and assure on-time execution

www.cpw.gr



Pipe production range

- 100\"/>

Wall thickness (in inches and mm)

Outside Diameter (in inches)


Outside Diameter (in inches and mm)

in

mm	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.60	6.35	7.14	7.92	8.74	9.53	10.31	11.13	12.70	14.27	15.88	17.48	19.05	20.62	22.23	23.83	25.40	27.00	28.58	30.18	31.75	33.32	34.93	36.53	38.10	39.70	41.28
in	0.079	0.098	0.118	0.138	0.157	0.177	0.197	0.220	0.250	0.281	0.312	0.344	0.375	0.406	0.438	0.500	0.562	0.625	0.688	0.750	0.812	0.875	0.938	1.000	1.063	1.125	1.188	1.250	1.312	1.375	1.438	1.500	1.563	1.625



Shaping the future

 **CORINTH  
PIPEWORKS**  
Member of CENERGY HOLDINGS



Member of CENERGY HOLDINGS

Corporate Headquarters:  
33, Amarousiou - Halandriou Str.,  
151 25 Marousi, Athens, Greece  
Tel.: (+30)-210-6787111  
Fax: (+30)-210-6787520



[info@cpw.gr](mailto:info@cpw.gr)



[www.cpw.gr](http://www.cpw.gr)

