

CORPORATE PRESENTATION **2021**

VIOHALCO



Viohalco at a glance

Diversified **metals processing leader** providing a wide range of high quality innovative products and **solutions tailored** to international customers' needs.

Sales
across
the globe



VIO
LISTED
EURONEXT



Listed holding company
of leading metal
processing companies
across Europe



7 business
segments



Serving
21 markets



Investments 2021
EUR 266 million



Focused on
technology
and innovation



80+ years
history



Viohalco

at a glance



Revenue 2021
€5.375 billion



a-EBITDA 2021
€426 million

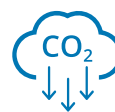
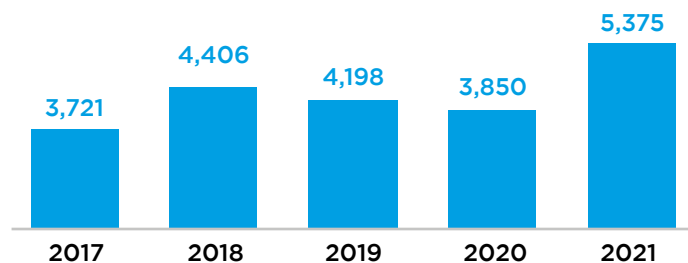


EBT 2021
€276 million



Sales revenue

in EUR million



Aligned with European Green Deal principles through low carbon operations and circular products.
Product line supporting the transition to a climate neutral economy



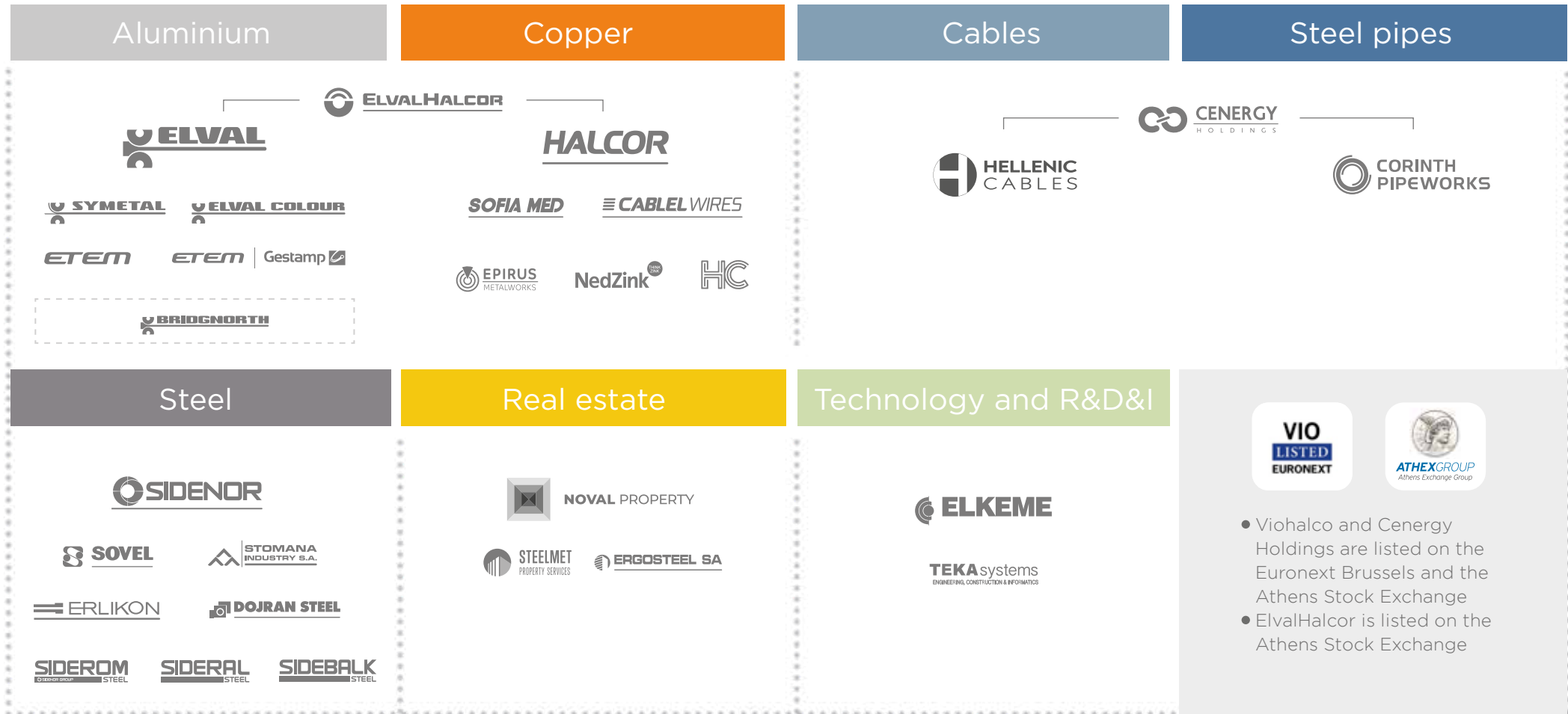
Strong environmentally focused investment programme with annual expenditures in excess of EUR 26 million



Highly experienced personnel with industrial experience and deep expertise in secondary metals production

Segments

Operating through distinct business segments, Viohalco companies provide **high-quality, innovative products and solutions** to a **diverse range** of industries.



Markets

Diversified portfolio of businesses serving dynamic markets, such as building and construction, packaging, transportation (automotive, shipbuilding & rail), energy networks (offshore energy, utilities & power grids, renewable energy, gas & liquid fuels), HVAC&R (heating, ventilation, air conditioning & refrigeration), water supply, telecommunications, printing, and various industrial applications.



Energy & power networks

- Utilities and power grids
- Gas and liquid fuels
- Offshore and submarine networks
- Telecommunication and data networks
- Renewable energy industry



Packaging

- Rigid
- Cigarette
- Pharmaceutical
- Semi rigid
- Flexible
- Confectionery
- Household



Building & construction

- Building and architectural
- Construction
- Water supply and sanitation



Transportation

- Automotive
- Road and rail
- Shipbuilding



Industrial applications

- Industrial engineering
- Power and electronic equipment



HVAC&R

- Refrigeration
- Air-Conditioning Systems
- Heating equipment
- Solar absorbers



Real estate

- Offices
- Hospitality
- Retail
- Logistics



Other markets

- Signage and Corporate ID
- Mining and tunneling
- Fish farming
- Household appliances
- Refractories
- Coin blanks



Technology and R&D



Printing



Resource recovery

Matching the Megatrends

Across all segments, the **Viohalco companies** offer products and solutions that closely align with current global **sustainability megatrends**

01. Megatrends

Clean, circular economy



Low carbon and recyclable products

Products with high recycled content

Sustainable packaging

Toxic free materials

Plastic replacement

Transition to climate neutrality



Electrification

CCS

Green hydrogen

Power storage

RES growth

E-mobility

Replacement of solid carbon fuels by natural gas as transition fuel

Interconnected power grid

Urbanization



Sustainable buildings

Smart housing

Energy efficiency in buildings

Reduction in plastic pollution

Cleaner and healthier forms of private and public transport

Technological advancements



Digitalization

Industry 4.0

Smart grid

Operational excellence



02. Segments' offerings

● Aluminium

- Strong momentum for sustainable packaging
- Consistent growth in global construction utilizing circular materials
- Increased use of aluminium in mobility
- Lightweighting solutions

● Copper

- Circular products utilizing secondary copper
- Product line used in RES
- Decarbonisation of heating in buildings
- Increased needs for energy efficient HVAC&R units
- Green refrigeration applications
- Low-lead products for drinking water applications

● Cables

- Increased use of underground cables
- Digitalization
- Decarbonisation of transportation
- Product line enabling expansion of RES and electrification

● Steel pipes

- Business activity towards energy transition pillars
- Hydrogen transportation and CCS technology

● Steel

- Production of highly circular, low carbon products

● Real estate

- Green and smart buildings
- Urban regeneration projects
- Logistics

Production Base / Main plants and ports

Aluminium



Oinofyta - Greece



Oinofyta - Greece



Mandra - Greece



St. Thomas - Greece



Bridgnorth - UK



Sofia - Bulgaria



Magoula - Greece

Copper



Oinofyta - Greece



Oinofyta - Greece



Oinofyta - Greece



Sofia - Bulgaria



Livadeia - Greece



Ioannina - Greece



Budel - Dordrecht
The Netherlands



Gebze - Turkey

Cables



Corinth - Greece



Thiva - Greece



Oinofyta - Greece



Bucharest - Romania



Blagoevgrad - Bulgaria



Thisvi - Greece

Steel



Thessaloniki - Greece



Almyros - Greece



Pernik - Bulgaria



Nikolic - N. Macedonia



Corinth - Greece



Thisvi - Greece



Almyros - Greece



West port - Bulgaria

01

Aluminium



ELVALHALCOR



ELVAL



SYMETAL



ELVAL COLOUR



BRIDGNORTH

ETEM

Gestamp 

ETEM



Aluminium at a glance

The aluminium segment companies **manufacture a variety of aluminium rolling and extrusion products** for a wide range of markets and applications.



State of the art manufacturing plants



Leading position in Europe in aluminium products



10 manufacturing plants across 3 countries



Technologically advanced and innovative custom-made solutions



More than 50 years' experience





Aluminium at a glance



Revenue 2021

€1.68 billion



a-EBITDA 2021

€123 million



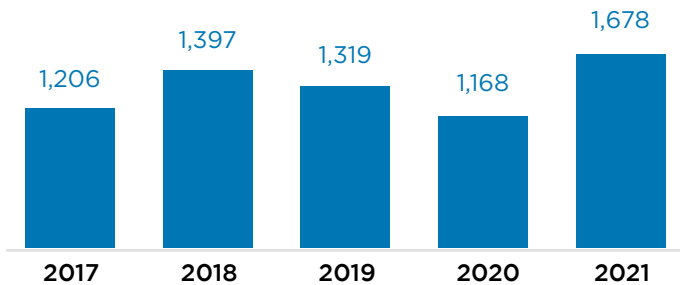
Investments 2021

€166 million



Sales revenue

in EUR million



Aluminium Stewardship Initiative (ASI) Performance Standard and Chain of Custody Standard certifications were achieved for ElvalHalcor's aluminium rolling division. ASI Performance Standard accomplished for Bridgnorth Aluminium and Symetal.

Strong commitment of ElvalHalcor's aluminium segment to more than double the utilization of secondary raw materials from 13% in 2019 to over 40% by 2025 contributing significantly to a low carbon, circular economy.



Aluminium aligning with Megatrends

01. Megatrends

Clean, circular economy



Low carbon and recyclable products

Plastic replacement

Transition to climate neutrality




Electrification

Power storage

E-mobility

Urbanization



Sustainable buildings

Energy efficiency in buildings

Smart buildings

Technological advancements



Digitalization

Industry 4.0



02. Segment's products & solutions facilitating the shift



- Sheets and coils for beverage cans, food containers, closure caps and aerosol valves



- Foil for food pouches and pharmaceutical blister packs



- End of life recycling for the packaging, building and transportation sector



- Sheet, plates, coils and profiles for marine applications and road, rail transportation vehicles



- Sheets and coils for automotive applications, heat exchangers, foil for rechargeable battery cells, foil for battery pouch



- Sheets and coils for bus ducts, telecommunication cabins, energy and power networks



- Tread plates and wide sheets for windmill platforms and nacelles



- Anodized or coated profiles for bicycle rims



- Mill finish or coated sheets and profiles for building and construction applications



- Coils for multilayer tubes for water supply and sanitary systems and extruded profiles for heat sinks



- Brazing strips for residential heat exchangers



- Sheets, coils and profiles for solar panels and photovoltaic applications



- Big data, data mining and cloud computing



- Machine learning and predictive analytics



- System Integration and optimization tools

- Smart Factory



Aluminium / Main plants



ELVAL

Flat rolled aluminium products and solutions for the packaging, building and construction, sea, road and rail transportation, energy, industrial, cookware and HVAC&R market



Capacity:
375,000Tn/year



Location:
Oinofyta - Greece



SYMETAL

Plain aluminium foil in various gauges and alloys for a variety of usages such as flexible and pharmaceutical packaging, food containers, automotive rechargeable batteries and several technical applications



Capacity:
52,000Tn/year



Location:
Oinofyta - Greece



SYMETAL

Conversion of aluminium foil into packaging applications: aluminium foil coating and/or paper lamination for products used in food, pharmaceutical and tobacco industries



Capacity:
26,000Tn/year



Location:
Mandra - Greece

A complete range of products and solutions in coated aluminium for building envelope: Etalbond® Aluminium Composite Panel for fayade and digital printing. Elval ENFTM Solid Coated Aluminium Sheets for fayade. Orofe® Pre-painted Aluminium Coils and Sheets for roofing applications. Ydoral® Pre-painted Aluminium for rain gutters. Agraphon® and arypon® Functional Coating Systems. Elval EZTM False Ceiling System. Coated Aluminium Strips for flashings and rolling shutters.



Location:
St. Thomas - Greece



ELVAL COLOUR

Surface-critical rolled aluminium products, litho coils for offset printing, foilstock, packaging feedstock, aluminium products for transformer windings, cable wrap and for automotive



Capacity:
127,000Tn/year



Location:
Bridgnorth - UK



BRIDGNORTH

Extrusions of a wide range of aluminium profiles for automotive and industrial market. The plant is certified from biggest automotive OEMs



Capacity:
30,000Tn/year



Location:
Sofia - Bulgaria



ETEM | Gestamp

Manufactures aluminium extruded profiles for the building and construction, transportation, shipbuilding, electronic and photovoltaic industries



Capacity:
18,000Tn/year



Location:
Magoula - Greece



ETEM



Aluminium / Markets and products

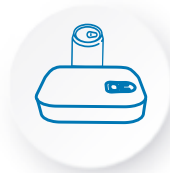
Energy & power networks

Aluminium coils for the production of bus-ducts in power plants and for LNG storage tanks, wide tread plates for windmills, profiles for photovoltaic applications, electrical strips for transformer windings



Packaging

Sheets and coils for beverage and food cans, closures and aerosol valves, flexible packaging for food, pharmaceutical and household applications



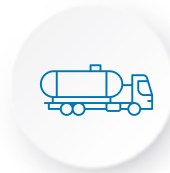
Building & construction

Coated aluminium products used in the building envelope, aluminium architectural building systems



Transportation

Aluminium shales and plates for marine applications, trucks, trains, buses, and commercial vehicles' components, brazing products for automotive heat exchangers, extruded profiles for crash management systems, chassis, suspension systems, doors



Industrial

Aluminium flat rolled products for engineering applications



HVAC&R

Aluminium brazing strips and foils for heat exchangers



Other markets

- Aluminium circles and shapes for household appliances and cookware
- Composite panels, profiles and prepainted coils for signage



Printing

Litho coils for the offset printing industry including computer - to plate - applications





Aluminium / Company

Flat rolled aluminium solutions, as individual as your needs

Rolling expertise



Elval is the **aluminium rolling division** of ElvalHalcor. It manufactures and markets flat rolled aluminium solutions for a number of diverse applications.

Through continuous investments in R&D&I and with in-house Technology Centre, Elval emphasizes on advanced metallurgy and rolling innovations to introduce tailor-made, aluminium breakthroughs of long-term value.

Elval operates according to the principles of sustainable development, employee health and safety and environmental protection while maximizes the contribution of aluminium to a circular economy and sustainable society.

Elval's aluminium rolling production plant is certified as per ISO 9001:2015, IATF 16949:2016, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018, ISO 27001:2013 and AS9100D.

Elval has achieved ASI Performance Standard and ASI Chain of Custody certifications demonstrating its commitment to environmental, social and governance performance, as well as to responsible supply chains.



www.elval.com
info@elval.com

ALUMINIUM SEGMENT OF
ELVALHALCOR
HELLENIC COPPER AND ALUMINIUM INDUSTRY S.A.



Sales
in more than
60 countries



Established
in 1973



Reliable and
dynamic
aluminium
solutions'
provider



State of the art
facilities



Aluminium / Company

Tailor-made and innovative, high value-added aluminium foil solutions

Flexible packaging for food, pharma and tobacco

Semi-rigid food containers

Cable wraps

Tea lights

Heat exchange equipment

Technical applications

Household use

Hair care

Li-ion batteries



Symetal has been involved in the production of a wide variety of aluminium foil products, mainly used in packaging solutions for the food, pharmaceutical and tobacco industries. With **more than 40 years' experience and expertise in aluminium foil rolling and converting processing**, Symetal offers tailor-made and innovative, high value-added solutions covering the needs of the most demanding global customers. It is highly export-oriented, with more than 90% of its sales carried out in around 70 countries.

Symetal owns three state of the art production facilities in Oinofyta, Viotia and Mandra, Attica standing out for their vertical integration and flexibility. Following the installation of an ultramodern three station lacquering machine, the Mandra-based plant currently figures among the most advanced plants worldwide.

Being a strategic partner to the largest consumer, food and pharmaceutical packaging manufacturers, Symetal leverages on its technical expertise and implements a continuous improvement and development approach, following a business model that is based on sustainability and green economy principles.

Symetal is certified as per ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, IATF 16949:2016 and ISO 50001:2018. The Mandra-based plant is further certified as per ISO 15378:2017, ISO 22000:2018, FSSC 22000 (v.5) and FSC® Chain of Custody.

Symetal has achieved ASI Performance Standard certification demonstrating its commitment to environmental, social and governance performance.

 www.symetal.gr

 info@symetal.gr



Sedex | Member

ALUMINIUM SEGMENT OF



Sales in around
70 countries



Established in
1977



40+ years'
experience
and expertise



Vertically
integrated
operation



High
value-added
packaging
solutions



Aluminium aesthetics durability & application for building envelope

Vertically integrated
aluminium composite panel producer



ALUMINIUM SEGMENT OF



Elval Colour is a leading European **coated aluminium and composite panel manufacturer**, that produces and sells a full range of building envelope products of superior quality using the latest technology.

With experience of 40 years in aluminium coating and colour matching, Elval Colour is a reliable partner that offers added value services to customers by assisting in product specification and selection to best suit the needs of specific projects/ applications. A customer-centric approach accompanies production and product delivery and continuous R&D facilitates the steady improvement of technology, quality and environmental standards.

Elval Colour's plant is certified as per ISO 9001:2015, ISO 14001:2015, ISO 50001:2018 and ISO 14064:2018.

Application	Product Brand
Fayade	etalbond® composite panels etalbond®FR etalbond®A2 Elval ENF™
Corporate ID & Signage	etalbond® d3, etalbond® d2, etalbond® d1: light weight composite panels
Rain Gutters	Ydoral®
Roofing	orofe®
Coating Systems	agraphon®, arypen®

 www.elval-colour.com

 ecs@elval-colour.com



Sales
in more than
70 countries



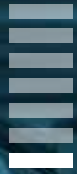
Established
in 1977



Experience
in coating
and colour
matching



Coating systems
made to suit
any project
requirement



Aluminium / Company

**2 dedicated
finishing lines
for litho coils
applications**



ALUMINIUM SEGMENT OF



Bridgnorth Aluminium is a fully integrated **producer of flat rolled aluminium coils** with all stages of production contained on one site, **the only facility of its kind in the UK.**

The Company's expertise spans the whole supply chain from casting of rolling ingot, to the hot and cold rolling processes, heat treatment, slitting, levelling and degreasing. Bridgnorth Aluminium's focus is on surface critical and soft alloy applications.

Through its own R&D laboratory and aluminium, segment laboratories in Greece, and with our JV partner UACJ, Bridgnorth Aluminium invests in product and process improvements.

The Company's production plant is certified as per ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018. Bridgnorth Aluminium has achieved ASI Performance Standard certification demonstrating its commitment to environmental, social and governance performance.



www.bridgnorthaluminium.co.uk
sales@bridgnorthaluminium.co.uk



Major international supply chains to blue chip end users



Established in 1957



90% exports



Aluminium / Company

**20 years of leading experience
in the Automotive Market for
customized, state of the art,
aluminium machining products**

Aluminium extruded
products for diverse industrial
applications



Dedicated to quality and precision the company has **over two decades experience in the Automotive sector supplying aluminium extruded products for numerous applications**, like Chassis, Body In White (BiW), Crash Management Systems (CMS) and parts of electric vehicles.

Investing in human capital, technological know-how and latest equipment, the company delivers a wide range of added value products and services to the automotive industry.



The Company is certified for production of crash relevant aluminium profiles with main applications in Crash Management Systems and Battery trays and is accredited as TIER 1 and TIER 2 supplier.




The portfolio of customers include among others, most leading automotive producers like Audi, BMW, Daimler, Lamborghini, Jaguar Land Rover, and Porsche.

In January 2019, Etem Group entered into an Investment Agreement with Gestamp, a leading global Group specialized in the design, development and manufacture of metal components and structural systems for the automotive industry.

As part of the Agreement, two joint ventures were established which focus on the extrusion and processing of aluminium profiles for the automotive industry. This Agreement further strengthens Etem's position in the automotive sector and helps to ensure it can successfully meet the increased demand for aluminium products.

Etem Gestamp's plant is certified for the production of crash relevant aluminium profiles and also as per IATF 16949:2016, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and Qualicoat.

 www.etemgestamp.com
 info@etemgestamp.com

-  Established in 1971
-  1st Automotive project with BMW in 2003
Automotive industry crash relevant systems
-  1st project in Electric cars for battery trays in 2013
Project collaboration with Gestamp on Porsche PPE41 in 2021



Aluminium / Company

Architectural aluminium systems for sustainable and energy efficient building envelope

Aluminium extruded
products for diverse Architectural and
industrial applications



Etem is **one of the leading European companies** for production of aluminium profiles for Architectural systems and different industrial applications with worldwide exports and presence.

Established in Greece in 1971 the company is committed to serving its customers with value-added products and services.

With competent structure and highly skilled people, the company meets the strategic goals to understand and cover the needs of each market, thus efficiently assisting its customers to achieve their business goals.

Etem offers numerous services to the customers from training and technical assistance to individual constructors and installers of façades, window and door systems, to complete project support throughout the various stages of a project.

Etem's main goal is to design and engineer architectural systems that helps us improve our everyday living, whether in a residential, commercial or work environment.

The Company remains loyal to its customer and keeps its promises for continuous innovation, bespoke solutions, integrated assistance throughout a project, and strategic business thinking, ensuring the customers commercial success.

Etem's plant is certified as per ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

 www.etem.com

 info@etem.com

ALUMINIUM SEGMENT OF



Presence
in more than
57 countries



Established in
1971



7 logistic
centers
in 5
countries



Focus on...

Elval's new milestone investment: A new **6-high aluminium cold rolling mill**, currently under construction.



The mill to be commissioned by **MINO S.p.A.**

6-high
aluminium
cold rolling
mill



Part of a **EUR 100 million investment** in equipment, technology and infrastructure.



Elval's 2nd step of **production capacity increase** which will elevate final products to **520KT** annually.



Cutting edge performance in terms of strip quality and productivity. Precise operation at high rolling speeds and strip width over 2 meters.



Advanced sensors and monitoring system including bearings temperature control, strip temperature control and vibration monitoring.



High-performing process control system incorporating the latest generation of AGC/AFC control, including unique model based predictive control algorithms.

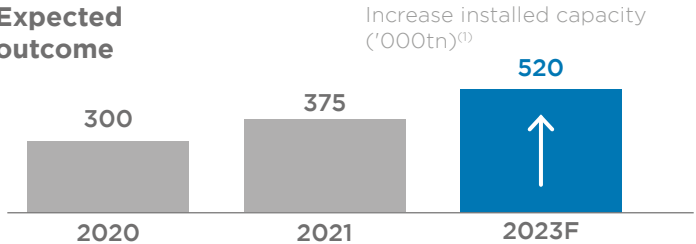


Highly efficient automatic coil handling, connected to coil high-bay storage, automatic spool transfer, pup coil disposal and fumes filtration with advanced air purification system.



The cold mill reinforces Elval's product portfolio towards more sustainable, recyclable, lightweight and energy efficient solutions in important market sectors, such as packaging and transportation.

Expected outcome



(1) Refers to the main Aluminium FRP plant

02



Copper



ELVALHALCOR

HALCOR

SOFIA MED

CABLEL WIRES



**EPIRUS
METALWORKS**

HC



Copper at a glance

The copper segment companies manufacture a **variety of copper** and **copper alloy products** for a **wide range of markets** and applications.



Sales in more than 60 countries



8 manufacturing plants across 4 countries



Technologically advanced and innovative custom-made solutions



More than 80 years' experience



State of the art facilities





Copper

at a glance

Revenue 2021
€1.56 billion



a-EBITDA 2021
€60 million

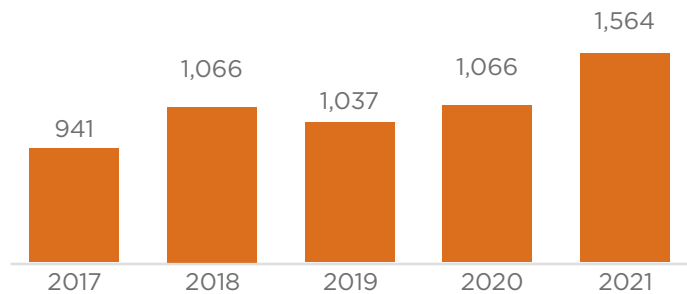


Investments 2021
€15 million



Sales revenue

in EUR million



Strong contribution to low carbon, circular economy by ElvalHalcor's copper segment with a 45% share of secondary raw materials



One of its strategic goals is to create safer working environment through third party audits by health and safety industry leaders



Copper aligning with megatrends

01. Megatrends

Clean, circular economy



Low carbon and recyclable products

Plastic replacement

Transition to climate neutrality



Electrification

(RES) growth

Replacement of solid carbon fuels by natural gas as transition fuel

Urbanization



Green buildings

Reduction of plastic pollution

Reduction of lead in potable water systems

Reduction of lead in potable water systems

Technological advancements



Digitalization

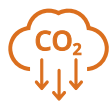
Operational excellence



02. Segment's products & solutions facilitating the shift



- Circular production model
- High recycled content in raw materials



- Strong improvement in operation of carbon footprint



- Low lead and lead-free copper alloy product portfolio
- Fish farming - recyclable copper alloy nets



- Copper and special alloys strips for automotive and e-mobility
- Tubes for heat pumps and other energy efficiency HVAC&R systems



- Tubes for green refrigeration
- Strips for transformer units



- Copper bus bars for wind generators
- Electroplated bus bars for RES electrical components



- Hot Dip Tinned strips for connectors used in automotive and electrical applications
- Tubes for geothermal applications
- Insulated tubes for solar applications
- Tubes and strips for solar panels



- Strips and foil for cable screening and high frequency cables for smart cities.



- Pre-insulated copper tubes for reducing heat losses in water circulation networks
- Copper tubes for natural gas distribution networks
- Brass rods with low-lead content for use as plumbing components



- Use of live shop floor data - MES



- Advanced Planning System - APS
- Human - robotics collaboration and automation projects





Copper / Main plants



Copper tubes plant
Copper tubes with or without plastic coating
or industrial insulation.



Capacity:
80,000Tn/year



Location:
Oinofyta - Greece



Foundry
Copper billets and slabs.



Capacity:
235,000Tn/year



Location:
Oinofyta - Greece



Copper alloy rods, tubes, sections and wires.
Specialises in the production of extruded
copper alloy.



Capacity:
40,000Tn/year



Location:
Oinofyta - Greece



Specialises in the production of rolled and
extruded copper and copper alloy products.



Capacity:
140,000Tn/year



Location:
Sofia - Bulgaria

Copper and aluminium enamelled wires (round
and rectangular).



Capacity:
8.500Tn/year
Enamelled wires
3.500Tn/year
Bare wires



Location:
Livadeia - Greece



Capacity:
10.000Tn/year



Location: **Pogoni,**
Ioannina - Greece



Capacity:
36.000Tn/year



Location:
Budel - Dorplein
The Netherlands

Rolled titanium zinc products: Zinc facades
and - roofs (e.g. standing seam), natural zinc,
pre-weathered zinc (patinated) in coils, sheets,
strips, gutters and accessories.



Capacity:
10 million
meters/year
Ecutherm copper
tubes



Location:
Gebze - Turkey

Specialises in the production of pre-insulated
copper tubes coils.





Copper / Markets and products

HVAC&R market

- Copper tubes for heat exchangers, heat pumps, other industrial applications, copper strips for boilers and heat exchangers, brass strips for heat exchangers



Industrial applications

- Copper tubes for solar panel applications, powered vehicles, HVAC&R, heat exchangers
- Copper and brass sheets, strips and plates for electrical use, transformer strips and cable screening, brass products for further processing, brass rods, tubes, wires, sections and flats for springs, screws, rivets, various turned parts, hot-stamped parts and heat exchangers for corrosive environments, copper bus bars for switch gear applications
- High tensile brass rods for worm gears



Renewable energy

- Copper tubes for solar panel applications, solar system networks, geothermal heating and cooling
- Copper bus bars for the wind farms



Transportation

- Copper and copper special alloy strips for connectors and copper strips for transfer energy and signals inside the vehicle



Building and construction

- Copper tubes for plumbing, heating, ventilation, heating and air conditioning, medical gas distribution, as well as copper sheets and strips for roofing and accessories, brass products for internal architecture and decoration, brass bars, tubes and sections



Water supply and sanitation

- Copper tubes for water supply, heating, under-floor heating, cooling networks, natural gas installations, medical gas distribution networks.
- Brass rods for the manufacturing of fittings, brass tubes for bath accessories
- Low lead and lead-free copper alloy product portfolio for drinking water applications



Other markets

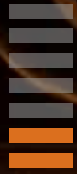
- Alkaline battery market
- Writing instruments industry
- Wire electrode industry
- Watchmaking industry
- Fastener industry
- Bicycle components market



Fish farming

- UR30® copper alloy wire and net for aquaculture cages





Copper / Company

Leading supplier of top European HVAC&R manufacturers Tubes with microgroove® technology

Tube heat transfer lab for inner
groove tubes tailor made solutions

HALCOR

Evolving Beyond Copper

Halcor is the largest producer of copper tubes in Europe, implementing long term investments that provide dynamic markets with a wide range of sustainable products and innovative solutions.

With more than 80 years of metal processing experience and know-how, Halcor, the copper and alloys extrusion division of ElvalHalcor SA, is a trustful business partner to industrial companies that build equipment and parts, as well as, to wholesalers that distribute products to meet global demands.

A dynamic network of owned commercial subsidiaries around Europe and supportive technical services enables Halcor to bring expert solutions to the industry with agility and reliability.

Committed to constantly investing in sustainable development, Halcor strategically focuses on R&D&I creating solutions for low carbon and recyclable products, for applications such as energy-efficient equipment, renewable energy sources and electric vehicles, contributing to the global transition to a green economy.

Halcor's copper tubes production plants are certified with the international standards ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and ISO 50001:2018.

✉ www.halcor.com
✉ info@halcor.com



COPPER SEGMENT OF



Sales in more
than
60 countries



80 years'
experience
in copper
processing



Market leader
in Europe in
copper tubes



25 years'
experience
in thin wall
tubes



Copper tubes
plant:
Biggest output
under one roof
in Europe



Copper / Company

Sales in Europe, Middle East, Asia, Africa, Central and North America

SOFIA MED

Sofia Med produces **a wide range of rolled and extruded copper and copper alloy products** such as sheets, strips, plates, disks, rods, bare and plated copper bus bars, rods, profiles, components, and wires used in a diverse range of building and industrial applications.

Sofia Med is situated in Sofia, Bulgaria, on a 250,000 m² area and has three production plants:

- Foundry
- Rolling
- Extrusion mills.

With 85 years' manufacturing experience and significant investment, Sofia Med has evolved into a competitive modern European company with customers across the globe.

Sofia Med operates under strict quality, environmental, and health and safety management systems, in compliance with ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, IATF 16949:2016 and ISO 45001:2018 standards. The Company follows the guidelines of ISO 26000:2010 on Social Responsibility. Sofia Med's product range meets all Unified European standards (EN) as well as BS, DIN, ASTM, JIS specifications, or any other specific customer request.

✈ www.sofiamed.com

✉ info@sofiamed.com

COPPER SEGMENT OF



Sales in
more than
62 countries



85 years'
experience
in copper
processing

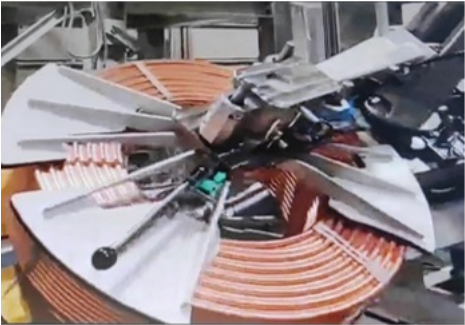


99% exports



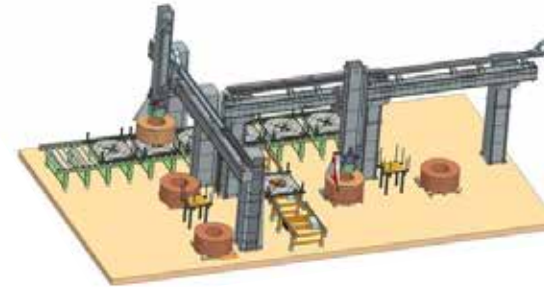
Letter
of Conformity:
ISO 26000:2010
on Social
Responsibility

Focus on...



Automatic LWC (Level Wound Coil) loading-unloading on Annealing Furnace

The scope of the project is the automation of LWC loading-unloading on Annealing Furnace using Human-Robot Interaction. The project is running with cooperation of RIS3 (Research & Innovation Strategy for Smart Specialization) project funded by the Region of Central Greece and with LMS (Laboratory for Manufacturing Systems & Automation – University of Patras) as a partner. The Goals of projects are the OEE improvement of the production line, reduce production cost, Quality improvement of production process through accuracy and repeatability (reduction of COPQ) and the most important improve the workplace ergonomic of the personnel.



**Tailor
made
machinery**

Human-Robot Collaboration

The objective of the project are the design of a Human-Robot Collaboration system from scratch capable of loading and unloading coils up to 600kg from the furnace to the final packaging. The tailor made machinery will handle the coils without damaging the material fast and with reliability. We also integrate in the solution smart system to guide the lifting devices and enable operation to perform tasks at the same time. Innovate system of fully customized design of automated coil handling using Vision and Smart Decision Systems are implemented. Human and robot sharing process steps in the production cycle safely using laser scanners and robot position correction with stereoscopic system when needed. Ending the benefits of this project are knowledge transfer between academia and industry with enhanced roll of the operator in the process. This project will serve as a pilot for other implementation within ElvalHalcó Company.



ElvalHalcor is active in several dynamic and growing markets, including:

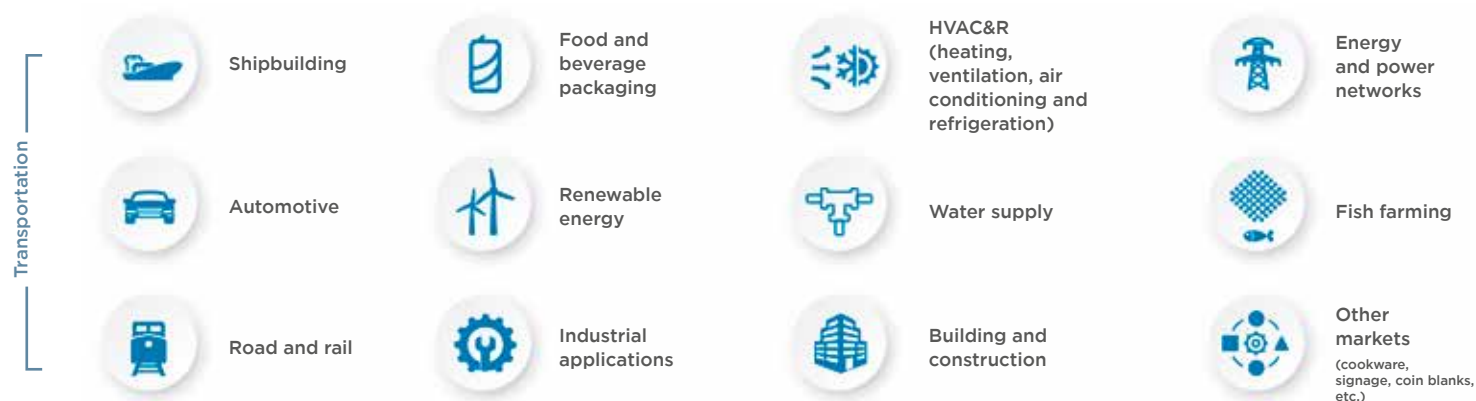
ElvalHalcor is **a leading global industrial producer of aluminium and copper**, formed in December 2017 via the merger of Elval and Halcor.

The Company has over 80 years of experience, a strong production base across 17 industrial plants in Greece, Bulgaria, Turkey and the Netherlands, a market presence in 94 countries, and highly experienced, specialised personnel.

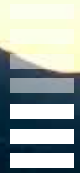
ElvalHalcor contributes to green economy and growth by offering sustainable aluminium and copper solutions and products in many dynamically growing markets.

ElvalHalcor is listed on the Athens Stock Exchange.

➤ www.elvalhalcor.com



03



Cables





Cables at a glance

Established provider
of **innovative cable
products, solutions
and services**



- Utilities and power grids
- Construction and Infrastructure
- Renewables
- Telecoms



Established
provider of
innovative
cable products,
solutions and
services



5 manufacturing
plants across
3 countries



World-class capabilities
in submarine cable
solutions. Amongst the
world largest and most
advanced submarine
cable capabilities
globally



Annual
capacity of
160,000 Tn
cables



Turnkey
solution
provider
In-house PMO,
design dept





Cables

at a glance



Revenue 2021
€757 million



a-EBITDA 2021
€90 million

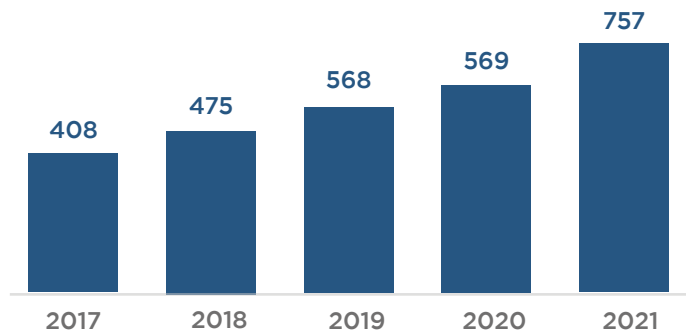


Investments 2021
€35 million



Sales revenue

in EUR million



Product line enabling a decarbonized future with 50% of products contributing to the energy transition



Significant energy efficiency gains in the last 10 years with 16% improvement on operational energy footprint.
Committed to Science Based Targets initiative (SBTi) -50% emissions by 2030 (Scope 1&2) -25% emissions by 2030 (Scope 3)
100% RES Electricity by 2030



Cables aligning with megatrends

01. Megatrends

Clean, circular economy



Sustainable
packaging

Low carbon and recyclable
products

Products with high recycled content

Transition to climate neutrality



Electrification

Green hydrogen

(RES) growth

E-mobility

Interconnected power grid

Technological advancements



Digitalization

Smart grid



02. Segment's products & solutions facilitating the shift



- Use of secondary raw materials in production
- Design of recyclable cables



- Submarine and underground cable solutions and services
 - High and extra-high voltage, up to 500 kV
 - Medium voltage, up to 72 kV
 - Turnkey capabilities, onshore and offshore



- Applications and markets: full scope of services
 - Offshore wind: static and dynamic
 - Power transmission and distribution, onshore and offshore
 - Data and telecom
 - Industrial applications
- Strong product line establishing energy transition

- FTTH cable solutions
- Composite power/ fibre-optic cables
- Copper telecommunication and fibre-optic cables
- Data transmission cables



Cables / Main plants



Corinth plant

Submarine cables

Copper and aluminium rods, LV power cables, MV power cables, HV cables, fibre optic submarine cables, submarine MV cables, HV and EHV submarine cables up to 400kV



Capacity:
50,000Tn/year
of cables
120,000Tn/year
of wire F8



Location:
Corinth - Greece



Thiva plant

Power & data cables

LV power cables, MV power cables, HV power cables, EHV cables up to 500kV, fibre optic cables



Capacity:
60,000Tn/year



Location:
Thiva - Greece

Compounding and R&D&I

PVC, LSF and rubber compounds



Capacity:
24,000Tn/year



Location:
Oinofyta - Greece



Oinofyta plant

Power, Telecom and Specials

Wire drawing, power cables, telecommunication cables, rubber cables, PVC and rubber compounds.



Capacity:
50,000Tn/year
of cables



Location:
Bucharest - Romania



Bucharest plant

Packaging

Packing materials and wooden drums for cables.



Capacity:
16,500m /year



Location:
Blagoevgrad - Bulgaria



Blagoevgrad plant



Cables /

Markets & products

Energy transmission, distribution & renewables

- Power cables: LV, MV, HV and EHV
- Submarine and land
- XLPE, EPR insulated
- Composite power and FO
- Turnkey solutions and capabilities



Telecom & data transmission

- Telecom network cables
- Optical fibre cables
- Submarine optical fibre cables for repeaterless applications



Construction & industrial

- Signalling and control
- High temp, low sag, flame retardant, mining
- Wind and solar





Cables / Company

**A complete
range of turnkey
solutions and
services, tailored
to customer
demands**



Hellenic Cables constitutes **the cables segment of Cenergy Holdings S.A.**, the holding company listed on both the Euronext Brussels and the Athens Stock Exchanges.

The Company, which is the largest producer of cables in Greece, South-eastern Europe, is active in the energy transmission and distribution markets in the renewable energy sources, telecommunications and data transmission, construction and industry sectors, and is distinguished for its strong exports orientation.

The Company has three cable production plants in Thiva and Corinth (Greece) and Bucharest (Romania), and one auxiliary production plant in Thiva, Corinth, Oinofyta (Greece). The Company's manufacturing plant in Corinth is one of the largest and most advanced submarine cable plants worldwide.

Hellenic Cables operates on the sustainability principles minimizing the negative impacts.

Through its activities, the Company seeks to leave a positive footprint on the economy and society of the countries in which it operates in the world.

📍 www.hellenic-cables.com

✉ info@hellenic-cables.com

CABLES SEGMENT OF



Sales in
more than
45 countries



Established
in 1950



5 manufacturing
plants
across 3 countries



State of the art
facilities



Focus on...

The project of **Crete-Peloponnese interconnection**.
The record-breaking project.



"We are very proud at Hellenic Cables that we managed to deliver quality work and technology at the highest standard for this record-breaking project ensuring at the same time long-lasting durability."

Maria Lamprou
Project Manager

Major milestone reached in 2021:

Design, supply and installation of a 150-kV composite submarine and underground cable system.



Scope:
150 kV Turnkey Project (design, supply & installation)



Subsea route:
135 km



Country:
Greece



Client:




Total onshore route:
43 km



Cable types:

- Composite three-core submarine cable including two interstitial fiber optic cables of 48SM fibres each
- Single core underground cables with interstitial FO tubes

The Corinth production plant is one of the largest and most advanced submarine cable factories in the world capable of producing long continuous cable lengths.



04

Steel pipes





Steel pipes at a glance

Corinth Pipeworks
is amongst the **world
leading steel pipe
manufacturers**
for the energy
and construction sector.



More than
50 years'
experience



World
class pipe
manufacturer
for energy
projects



Long experience
with more than:

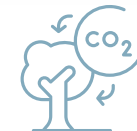
- 22,000 km pipelines
- 3,000 km offshore pipelines
- 1,000 km CO₂ pipelines



Energy transition
enabler through
R&D&I in
transportation of
hydrogen



State of the art
facility
(EUR 364 million
investments
1998-2021)



Ready for the
energy shift
with know how
in gas & CCS
pipelines





Steel pipes at a glance



Revenue 2021
€225 million



a-EBITDA 2021
€14 million

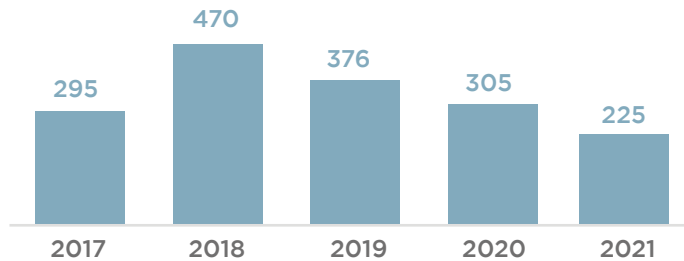


Investments 2021
€ 10 million



Sales revenue

in EUR million



Significant energy efficiency gains in the last 10 years
with 4% reduction of Scope 1&2 CO² emissions



Landfill waste avoidance exceeding 99%
Strong contribution in reduction of carbon footprint in
our production facilities



Steel pipes aligning with **megatrends**

01. Megatrends

Clean, circular
economy



Circular economy

Production responsibility

Transition
to climate
neutrality



CCS

Green hydrogen

Technological
advancements



Digitalization

Operational excellence

02. Segment's products & solutions facilitating the shift



- Steel coils and plates being highly recycled raw materials
- Utilizing secondary materials in concrete coating making more circular products



- Strong commitment in energy efficiency improvements, in utilising electricity from RES and contributing to carbon neutrality



- Strong product portfolio enabling energy transition



- First steel pipe manufacturer to provide pipes certified to transport up to 100% hydrogen.



- Steel pipes for gas fuels pipelines in demanding projects and strict specifications



- Steel pipes for CO₂ pipelines for CCS projects



- Implementation of integrated performance management systems



- HSE digital platform and Quality Management System



- Continuous improvement via business excellence program





Steel pipes / Main plants, markets and products



CORINTH
PIPEWORKS

Products: Steel pipes

Markets:

- Gas and liquid fuels pipelines
- Hydrogen pipelines
- CO₂ pipelines
- Construction



Capacity:
925,000Tn/year



Location:
Thisvi - Greece

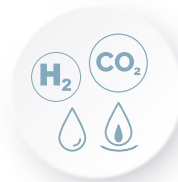
Gas and liquid fuels, Hydrogen and CO₂ pipelines

Onshore:

ERW 8"-26" x 25,4mm
HSAW 24"-100" x 25,4mm
LSAW 16"-56" x 40,0mm

Offshore:

ERW 8"-26" x 25,4mm
LSAW 16"-56" x 40,0mm



OCTG (drilling and extraction)

ERW 8"-26" x 25,4mm
LSAW 16"-56" x 40,0mm



Construction

ERW 8"-26" x 25,4mm
HSAW 24"-100" x 25,4mm
LSAW 16"-56" x 40,0mm
ERW 2"-7" x 10,0mm





Steel pipes / Company

**The one stop shop philosophy:
Integrated services,
Coating,
Double jointing,
Laboratory
(Hydrogen & Sour service),
Logistics.**

Port facilities' exclusive use



With over half century's experience, Corinth Pipeworks has worked with **major energy companies across the globe** on highly demanding projects.

The Company's customer oriented philosophy has resulted in strong, long term mutually beneficial relationships.

Corinth Pipeworks operates a state of the art plant in Thisvi (Greece) with 925,000 Tn/year capacity. It continuously invests to support delivery of reliable quality solutions on time.

The Company offers one of the widest product ranges in the industry, as well as top-quality tailor-made solutions to demanding projects.

The Company is ready for the energy shift, 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 has extensive experience and a strong track record of implementing complex projects for the energy sector worldwide, both onshore and offshore.

www.cpw.gr

info@cpw.gr

STEEL PIPES SEGMENT OF



Unique
production range
worldwide



Downstream
operations all in
one location
Hydrogen
certified pipelines
& hydrogen
certification
laboratory



Steel pipes for
energy sector
and hollow sections
for the construction
sector



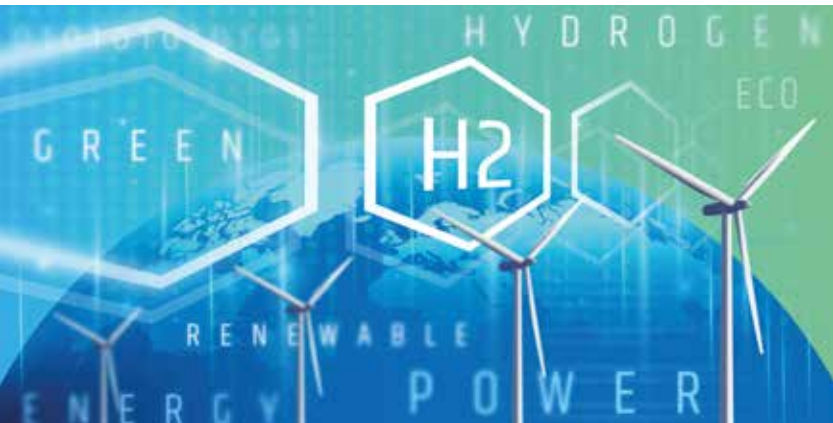
Long experience
in realising
demanding projects
(max water depth
1,750 m)



Focus on



Technological
superiority



The new era of green hydrogen from renewable energy sources will lead to the utilization of gas pipe networks to transport a mixture of natural gas & hydrogen up to 100% hydrogen.

Corinth Pipeworks is the first steel pipe manufacturer to provide pipes certified to transport up to 100% hydrogen.





Be part of the energy world



Power transmission
& distribution



Renewables



Gas & liquid
fuels



Telecom



Construction

➤ www.cenergyholdings.com

Cenergy Holdings S.A. invests in industrial companies at the forefront of high growth sectors, such as **energy transportation, telecommunications and construction.**

Based in Belgium, the Company was founded in 2016 and is listed on Euronext Brussels and on the Athens Stock Exchange. Cenergy Holdings' companies provide turnkey solutions and services to a large number of clients in the energy, telecommunications and construction sectors. With significant experience implementing large-scale projects globally and a strong focus on customer satisfaction, the companies are considered to have a leading role in their respective sectors.



05



Steel



 **SIDENOR**

 **SOVEL**

 **STOMANA**
INDUSTRY S.A.

 **DOJAN STEEL**

 **ERLIKON**

 **SIDEROM**
STEEL

 **SIDERAL**
STEEL

 **SIDEBAK**
STEEL



Steel at a glance

The steel segment companies offer **a broad range of value-added products and solutions for building and construction** (including buildings, roadworks, metro stations, bridges, shopping malls and hydroelectric dam projects), **mechanical engineering, shipbuilding, road and rail, the automotive industry**, along with mining and tunneling applications.



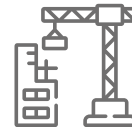
Annual capacity
of 3,600,000 tons
Liquid Steel



3 ports & 16
distribution
points



6 manufacturing
plants in
4 countries



Strong presence in
building, construction,
industrial engineering
and shipbuilding
industries



Innovative
products
for concrete
reinforcing
construction





Steel

at a glance



Revenue 2021
€1,068 million



a-EBITDA 2021
€124 million

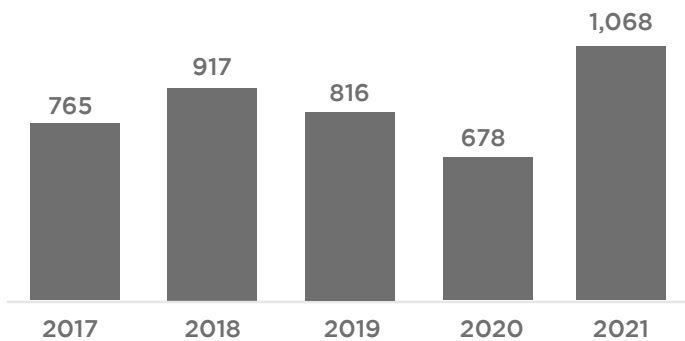


Investments 2021
€27 million



Sales revenue

in EUR million



Strong contribution to low carbon, circular economy with 98% of raw materials from secondary sources



Steel production waste recycling or recovery rate at 96% in Greek plants



Steel aligning with **megatrends**

01. Megatrends

Clean, circular
economy



Low carbon and
recyclable products

Products with high
recycled content

Urbanization



Green buildings

Technological
advancements



Digitalization

Industry 4.0

Operational
excellence



02. Segment's products & solutions facilitating the shift



- By-products and wastes recycling as raw materials for other industries
- High recycled content in raw materials



- Concrete reinforcing steel and Sidefor prefabricated stirrup cages for high buildings and constructions



- Digitalization in steel process maintenance in robotics and automation (Concrete reinforcing steel, Special Bar Quality steels)



Steel / Main plants



Wire rod, SD concrete reinforcing steel (bars and coils), billets



Capacity:
Meltshop:
800,000 Tn/year
Long products mill:
800,000 Tn/year



Location:
Thessaloniki - Greece



Capacity:
Meltshop:
1,350,000 Tn/year
Long products mill:
1,200,000Tn/year



Location:
Almyros - Greece



Quarto plates, special bar quality steels, SD concrete reinforcing steel, grinding steel balls, hollow sections, continuously cast semi-products (billets, blooms and slabs).



Capacity:
Meltshop:
1,400,000 Tn/year
Plate mill:
400,000 Tn/year
Long products mill:
1,200,000 Tn/year



Location:
Pernik - Bulgaria



Capacity:
Long products mill:
200,000 Tn/year



Location:
Nikolic N.Macedonia





Steel / markets and products

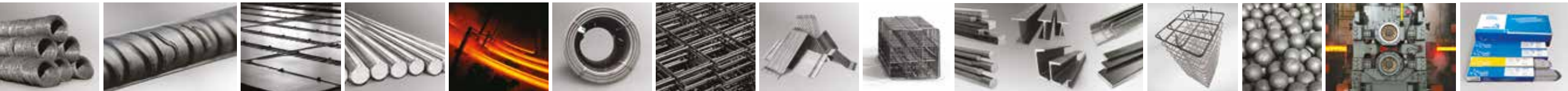
Building & construction

SD integrated concrete reinforcing system (concrete reinforcing steel, bars and coils, cut-to-length rebar, spooled coil, mesh, stirrup reinforcing mesh, Sidefit special mesh, wire mesh, Sidefor stirrup cages, Inomix steel fibers, lattice girders), merchant bars, wire rod, quarto plates, galvanized mesh, double twist hexagonal mesh (serasanetti), welding products, welded electrodes, wire products (galvanized wire and black wire), thin wall pipes and tubes.



Transportation, automotive & shipbuilding

Quarto plates, special bar quality steels (SBQs), wire and welding consumables for vehicle manufacturing industry and shipbuilding, forging parts for the agricultural industry.



Industrial applications

Merchant bars and wire rods, quarto plates, special bar quality steels (SBQs) for use in hydraulic cylinder, forging and other engineering steel sectors.



Energy & Power networks

Merchant bars, flats and equal angles for high voltage transmission towers, special bar quality steels (SBQs).



Other markets: Mining & tunneling

Grinding.





Steel /
Company

Long experience in multimodal logistics across the Balkans



Sidenor is a **leading producer of long steel products in South East Europe.**

Sidenor's plant in Thessaloniki produces steel from recycled scrap, promoting the circular economy. The plant operates a digital steel scrap reception and monitoring system.

Sidenor manufactures long steel products via a hybrid mode, operating either with cold or hot charging of the billets in the rolling process. This flexible operation uses reheating and induction furnaces.

Sidenor produces wire rod in standard or customized qualities. It produces also SD concrete reinforcing steel in bars and coils.

Sidenor is the first steel producer in Greece to offer its customers the Environmental Product Declaration (EPD) for SD concrete reinforcing steel products (bars and coils, meshes and prefabricated cages) manufactured at the Sovel plant, Almyros, Greece. The EPD demonstrates the company's commitment to monitoring, measuring, and transparently reporting its environmental footprint.

Sidenor provides the raw materials (billets and steel wire) to group's manufacturing company Dojran Steel specialized in the production of merchant bars and wire products.

Sidenor provides the raw material (wire rod qualities) to group's downstream manufacturing company Erlikon specialized in the production of galvanized wire products, welding products, steel fibers and other wire products.

Sidenor's products are delivered by trucks and vessels in many European and MENA countries.

Sidenor's plant is certified as per ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, and ISO 50001:2018.

📍 www.sidenor.gr

✉ info@sidenor.vionet.gr



Wire rod
in standard
or customized
qualities



60 years'
experience



Capacity
Meltshop
800,000 Tn/year



Rolling mill
800,000 Tn/year



Steel / Company

Own port facilities



Sovel is a leading producer of long reinforcing steel products in South East Europe.

Sovel's plant in Almyros, Central Greece produces steel from recycled scrap, promoting the circular economy.

Sovel manufactures long steel products via a hybrid mode, operating with both cold and hot charging of the billets in the rolling processes. This flexible operation uses both reheating and induction furnaces. The plant operates a digital steel scrap reception and monitoring system.

Sovel is specialized in the production of SD concrete reinforcing steel bars, standard or tailored-to-length, SD spooled coils. As downstream operations Sovel manufactures SD stirrup reinforcing mesh, SD wire mesh, Sidefit special mesh and Sidefor prefabricated stirrup cages.

Sovel's products meet high quality standards required by the infrastructure and construction projects internationally.

Sovel is awarded with the Environmental Product Declaration (EPD) for SD concrete reinforcing steel products (bars and coils, meshes and prefabricated cages) manufactured in in Sovel (Almyros, Greece). EPD offers reliable and quantitative information regarding to product's life cycle and is a significant step towards a more sustainable future.

The Company's production plant is certified as per ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2011 and SustSteel.

Sovel's products meet European standards (EN) as well as BS, DIN, ELOT, SR, SRPS, BDS, HRN specifications.

✈ www.sidenor.gr

✉ info@sidenor.vionet.gr



State of the
art facilities



Investments
in high-end
technology



Capacity
Meltshop
1,350,000 Tn/year



Rolling mill
1,200,000 Tn/year



Steel / Company

**Major supplier
to the shipbuilding,
automotive, industrial sectors**



Stomana Industry is **a leading manufacturing company of flat and long steel products located in Bulgaria.**

Stomana plant in Pernik produces steel from recycled scrap and is among the few steel mills producing 100% of the hot rolled plates exclusively by recycled ferrous scrap, providing solutions that reduce the environmental footprint and promote the circular economy.

The plant operates a digital steel scrap reception and monitoring system.

The steel is manufactured via two electric arc furnaces, a vacuum degasser for the quality steel products, while billet grinding technology is among many state of the art technologies installed.

The Company has been present in the Balkans and international markets for more than 65 years and produces a wide range of products including quarto plates, special bar quality steels (SBQs), reinforcing steel, and grinding steel balls.

As downstream operations Stomana Industry manufactures bright steel bars and quenched and tempered bars for engineering applications, as well as thin wall tubes and hollow sections.

Stomana Industry continuously invests in the most up-to-date technology, operates a state of the art laboratory, that together with many inspection lines ensures high quality products of high standards.

Stomana Industry exports its products to all over the world, by trucks, rail and vessels.

The Company's production plants are certified as per ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and SustSteel. The products meet requirements of EN, DIN, ASTM, SIS, BS, Lloyd's register and Germanischer Lloyd.

✈ www.stomana.bg

✉ info@stomana.bg



Main markets:
Central
Europe,
Balkans,
US, MENA



Wide range of
products:
Rebar, quarto
plates, special
bar quality steels,
grinding balls



Capacity
Meltshop
1,400,000 Tn/year



Plate mill
400,000 Tn/year



Long products mill
1,200,000 Tn/year



Steel / Company

Leading producer of merchant bars in South East Europe



Dojran steel is a **producer of long steel products via rolling process and downstream products.**

Dojran produces steel exclusively from billets from recycled ferrous scrap promoting the circular economy.

Dojran produces merchant bars in standard profiles and qualities, but also concrete reinforcing steel in bars and meshes, as well as wire downstream products.

It is specialized in the production of downstream galvanized wire products like standard and special meshes, double twist hexagonal mesh (serasanetti), as well as copper coated welding wire.

Dojran products are delivered by trucks and vessels via Thessaloniki port in many European and MENA countries.

The Company's production plant is certified as per ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

📍 www.dojransteel.mk
✉ info@dojransteel.com



Wide range of products,
Merchant bars,
rebar products



All products fulfill
the latest and
highest quality
standards



Capacity
Long products
mill
200,000 Tn/year

06

Real estate



NOVAL PROPERTY



STEELMET
PROPERTY SERVICES



ERGOSTEEL SA



Real estate at a glance

Noval Property
is the **2nd largest
Greek REIC** with
its main footprint in Greece



Offices, shopping
centre / retail park,
hospitality, industrial,
logistics



44 properties
(one, indirectly,
through a joint
venture with a real
estate fund)



2nd Largest
Greek REIC



Low leverage
capital
structure



Strong tenant
mix and
long-term
leases



Diversified
portfolio in Greece
and selectively in
Bulgaria





Real estate at a glance*



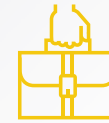
Property portfolio
fair value (31.12.2021)

€413 million



GBA

453,000 sqm.



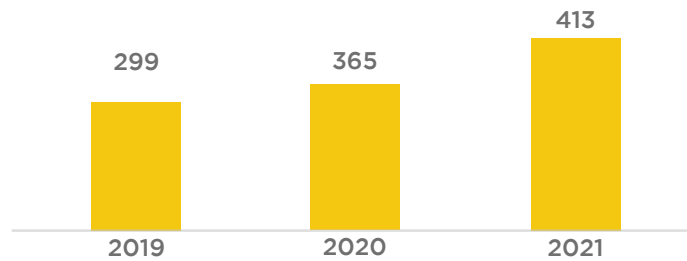
Investments 2021

€12 million



GAV

in EUR million



* Figures refer to Noval Property



1st LEED PLATINUM project in Greece
using LEED v4 for "The Orbit" office
complex



Real estate aligning with **megatrends**

01. Megatrends

Clean, circular
economy



Low carbon and
recyclable products

Products with high
recycled content

Urbanization



Green
buildings

Smart
buildings

Energy efficiency
in buildings

Technological
advancements



Digitalization



02. Segment's products & solutions facilitating the shift



- Properties with LEED certification
 - "The Orbit" office complex PLATINUM LEED
 - "The Butterfly" office building GOLD LEED
- Use of materials in construction with high recycled content



- Conversion of former industrial assets into logistics
- Resort hotels with residential component
- Energy efficiency standards in new buildings
- Upmarket residential complexes
- Mixed use urban regeneration projects, in particular in Athens
- Green and smart buildings



- Prime office buildings with LEED and WELL design and certification



Real Estate / Company

2nd largest Greek Real Estate Investment Company (REIC)



NOVAL PROPERTY

Noval Property is the **2nd largest Greek Real Estate Investment Company (REIC)** in terms of portfolio value.

Noval Property possesses a diversified mature and resilient portfolio of high quality assets, with long term inflation adjusted leases and strong tenant mix, comprising offices, retail, hospitality and industrial / logistics assets.

It has a footprint across Greece with selective presence in Bulgaria.

Among its flagship income producing properties are "The Orbit" office complex, "The Butterfly" office building, the "River West" shopping centre and the adjacent IKEA megastore, the "Mare West" retail park, and the "Wyndham Grand Athens" hotel.

Noval Property also has a diversified pool of investment and captive development pipeline.

Noval Property's solid in-house investment and development track record in Greece and SEE, combined with its strong capital structure, enable Noval Property to deliver a well defined strategy of growth balancing risk and return.

★ www.noval-property.com

✉ info@noval-property.com



413 EUR mill.
property
portfolio
value



Diversified
portfolio:
Offices, retail,
hospitality,
industrial /
logistics



Mixture of
income producing
assets and
development
assets



1st LEED
PLATINUM project
in Greece using
LEED v4 for
"The Orbit" office
complex



Highlights

Real estate development expertise in the commercial, office and hospitality sectors



Retail



IKEA Megastore



River West Shopping Centre



Mare West Retail Park



Hospitality



Wyndham Grand Athens 5* Hotel



Wyndham Grand Athens 5* Hotel



Wyndham Grand Athens 5* Hotel



Offices



"The Butterfly" office building



"The Orbit" office complex



"The Orbit" office complex



NOVAL PROPERTY



Main tenants





Focus on...

RIVER WEST
OPEN



NOVAL PROPERTY



RIVER WEST EXPANSION

Following 10 years of successful operation **River West** shopping centre reached **highest levels of footfall and 100% occupancy**. Noval Property invested in schemes' expansion, in order to secure its **dominant position**, **increase profitability**, be ahead of new **market trends** and focus on **exceptional customer experience**.

The new development, **River West Open**, concerns the merging of the new commercial complex with the existing one and the development of **new dining areas** and **top retail stores**, throughout **landscaped and featured outdoor spaces**, **green recreation areas** and **water elements**. With the launch of River **West Open**, River West shopping centre is being redefined as an ultra-regional lifestyle and retail destination, that effectively combines indoor with open air shopping and offers an overwhelming variety of entertainment and leisure spaces to its visitors.

Today, the total development which includes the existing facilities of River West, River West Open and the megastore of IKEA, is the **biggest retail destination in Greece**, spreading over a total area of 83.500 sqm.



Location:
96-98-100 Kifissos Ave. Aigaleo



Total GBA:
24.500 sqm



Uses:
New retail anchors / Flagship stores / 1.550 sqm New F&B area



Parking:
555 new car spaces
2 open-air & 1 roof top parking areas



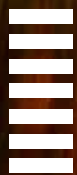
Uses:
20.000 sqm landscaped and featured outdoor spaces / amphitheater / waterfalls / 8.000 sqm of green gardens / 1.000 sqm outdoor playground



Open to the public:
July 2021



07



Technology and R&D&I



TEKAsystems
ENGINEERING, CONSTRUCTION & INFORMATICS



Technology and R&D&I at a glance

Development of **high value added products**. Efficient solutions **for the optimization of industrial and business processes**.



Viohalco's R&D&I work focuses on developing new, **innovative and high value added products**, and efficient solutions to optimise industrial and business processes. At the forefront of technological developments, Viohalco companies promote on-going R&D&I, develop innovative solutions, and maintain strategic partnerships with scientific bodies, international research centres, and other pioneering companies around the world.



Continuous scientific research, combined with experience from Viohalco companies' copper, aluminium and steel plants and foundries have resulted in significant in-house knowledge in metallurgy.



Viohalco companies **invest in cutting-edge factory lines** and constantly upgrade existing lines to remain competitive in the global market. Experienced engineers enhance the performance, effectiveness and capabilities of the lines beyond manufacturers' expectations.



Through on-going research and industrial processes technology optimization, Viohalco companies' engineers strengthen their product portfolios with innovative solutions.



Technology and R&D&I / Company

Provides R&D&I services and technical solutions for new products, and optimizes existing products and business and plant production processes



Elkeme's main focus is applied **industrial research and the technological development and analysis of four major metals sectors** (aluminium, copper, steel and zinc).

The Centre provides value added R&D&I services and technical solutions for new products and the optimization of existing business and plant production processes.

Main departments/laboratories

- Process Metallurgy
- Physical Metallurgy and Forming
- Metallography and Electron Optics
- Technology
- Surface Science and Coatings
- Corrosion
- Manufacturing Systems and Automation
- Numerical Modeling
- Analytical Chemistry
- Sustainability

Key Activities

- Metallurgy
- Production process operations
- Surface and Coatings Characterization
- Electrochemistry methods
- Analytical chemistry methods development
- Alloy design and process development and optimization
- Development of new metallic products
- Fracture mechanics
- Mechanical properties determination
- Industrial trials with scientific monitoring
- Simulation of pyrometallurgical, thermal, casting and forming processes
- Joining and welding
- Microstructure and crystallographic characterization
- Failure and root cause analysis
- Characterization and study of sandwich composite materials
- Industrial environmental and energy control and analysis
- Corrosion protection
- Recycling, waste stabilization and utilization of by-products
- Chemical, mineralogical and texture analysis

Elkeme is certified according to ISO 9001:2015, while it operates an ISO 17025:2017 accredited analytical chemistry laboratory.

🌐 www.elkeme.gr

✉ info@elkeme.gr



Established in
1999



Continuous collaboration
with Academia
for research
projects



Over **thirty five (35) PhD & Diploma Thesis**
in last 6 years



Largest private industrial R&D&I Centre in Greece



More than **200 R&D&I projects annually**



Technology and R&D&I / Company

TEKAsystems ENGINEERING, CONSTRUCTION & INFORMATICS

TEKA SYSTEMS, since 1975, offers high quality services to its customers by creating new standards with extensive experience in the field of **Engineering Solutions technology** and **Information Technology**, in the wider region of South-eastern Europe.

TEKA Systems has huge know-how in large-scale projects, high-quality requirements, in accordance with the latest international standards, covering:

- **Engineering & Design**
- **Erection and Commission services**
- **Industrial Automations**

TEKA Systems is also an Microsoft Azure Gold Partner, as well as SAP Gold Partner and Partner Center of Expertise, certified by SAP AG, providing holistic services from the Design until the operation and support of SAP ERP Systems for the following business area:

- **Sales & Marketing**
- **Finance**
- **Manufacturing**
- **Supply Chain**

TEKA Systems has more than 200 specialized, certified professionals with extensive experience in complex projects in both areas of Engineering and Information Technology.

TEKA Systems is certified with ISO 9001:2015 and ISO 27001:2013 International Standards.

Indicative customers

- | | | |
|---------------------------|-----------------------|---------------------|
| • Pharmathen | • Plastika Kritis | • Minoan Lines |
| • Innovis | • Thrace Group | • Pharmaserve Lilly |
| • Costa Mare Shipping | • Papoutsanis | • UPL Greece |
| • Loulis Mills | • Flexopack | • Inform P. Lykos |
| • Druckarben | • Kapachim | • Attiko Metro |
| • GEK Terna | • ABB | • Galaxias |
| • Teiresias | • Leriva | • Daufood Greece |
| • Cosco Shipping | • Landis + Gyr Greece | • Navarino |
| • National Bank of Greece | • Pavlos N. Pettas | • Telenor BG, |
| • Ote-Cosmote | • Papadopoulou | • Chipita |
| • Rafarm | • DEKA | • Ravago etc. |

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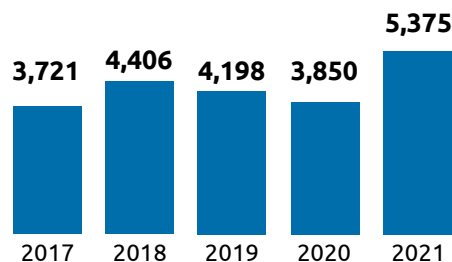
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Financials

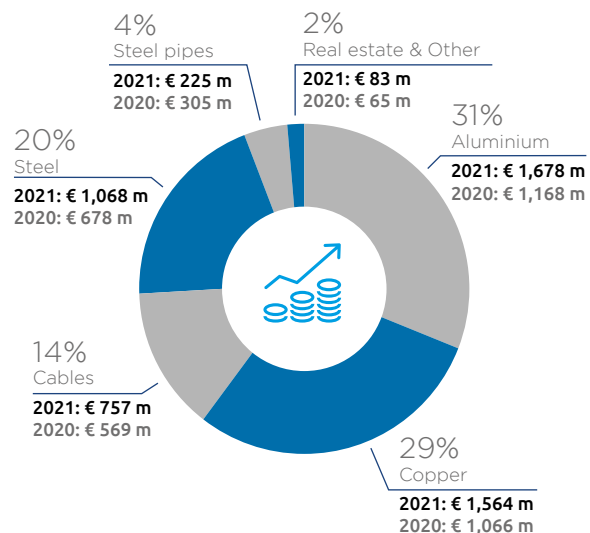
2021 Financial Highlights

→ **Viohalco's consolidated revenue** for 2021 was EUR 5,375 million, up 40% year-on-year (2020: EUR 3,850 million), reflecting an upturn in demand across almost all segments and the rise in metal prices.

Revenue (EUR million)

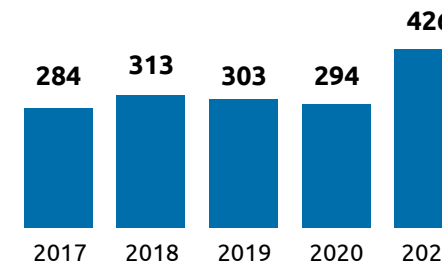


Revenue per segment

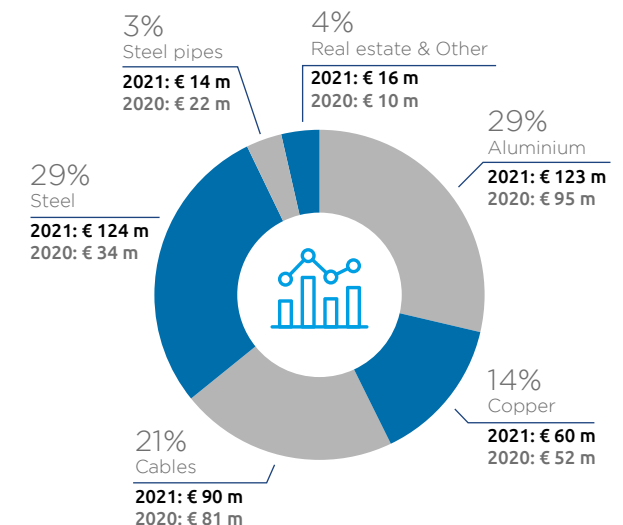


→ **Consolidated a-EBITDA** increased by 45% to EUR 426 million for 2021 (2020: EUR 294 million).

a-EBITDA (EUR million)

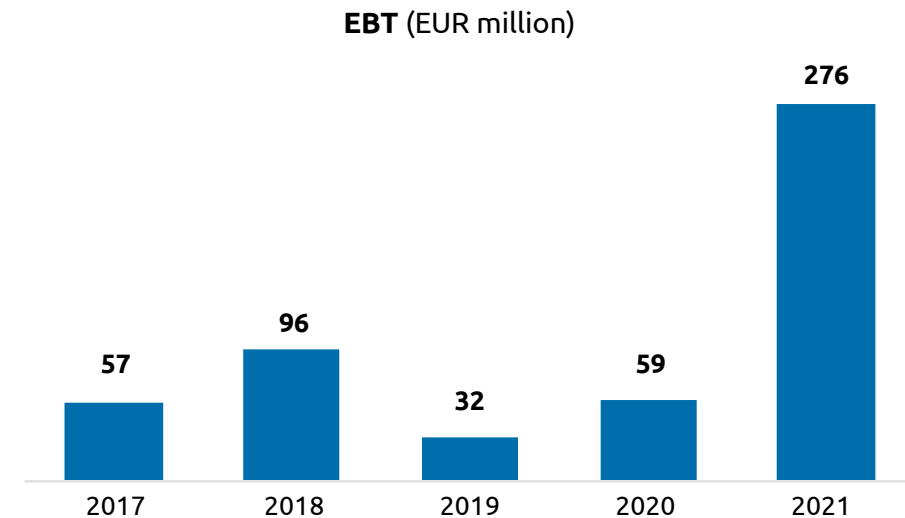


a-EBITDA per segment



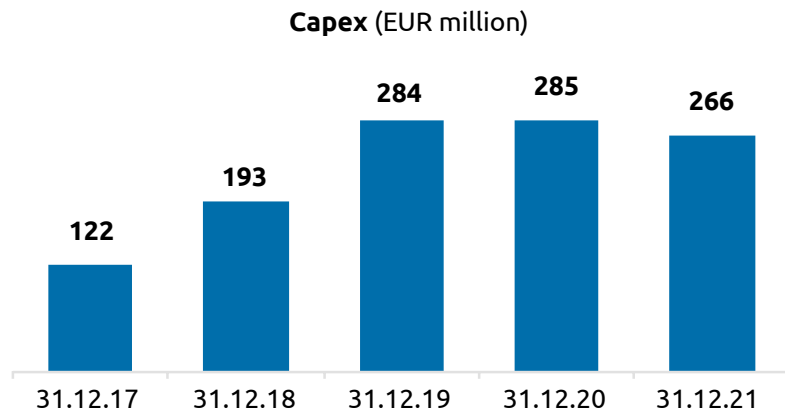
2021 Financial Highlights

➔ Viohalco's **consolidated profit before income tax** for the period amounted to EUR 276 million, compared to EUR 59 million in 2020, mainly attributable to the noticeable recovery of the steel segment, the solid growth across both the projects and the products business of the cables segment and the continuous rise in demand of the aluminium and copper segments.

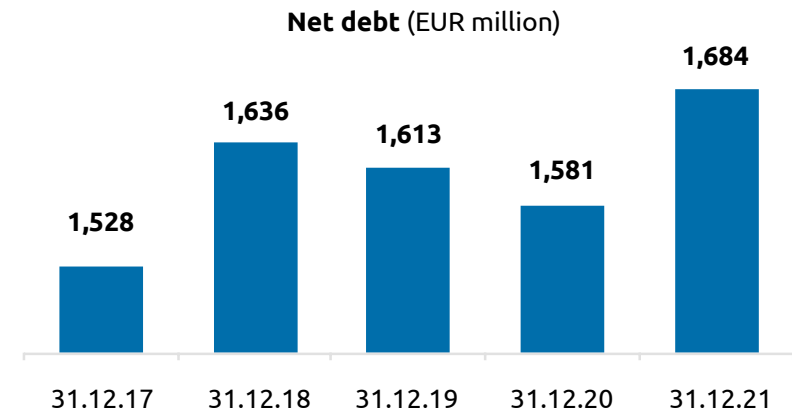


2021 Financial Highlights

- **Capital expenditure** for the period amounted to EUR 266 million (2020: EUR 285 million), mainly attributable to the aluminium segment's investment programme (including the advanced six-high cold rolling mill and automated lacquering line), investments in Hellenic Cables' submarine cables production plant in Corinth, and infrastructure improvement investment in the steel segment.



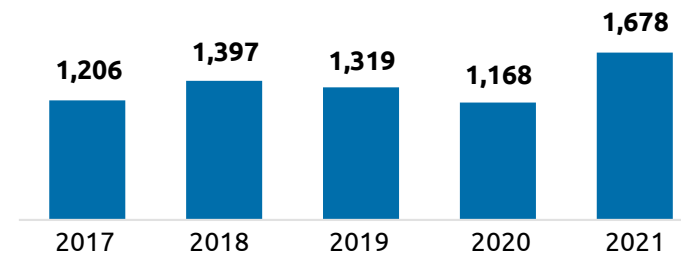
- Viohalco companies' **net debt** increased to EUR 1,684 million (31 December 2020: EUR 1,581 million) before IFRS 16 adjustment, as a result of the increase in working capital and the bond's issuance of ElvalHalcó that took place in November 2021. After adjusting for IFRS 16, net debt amounted to EUR 1,664 million (31 December 2020: EUR 1,560 million).



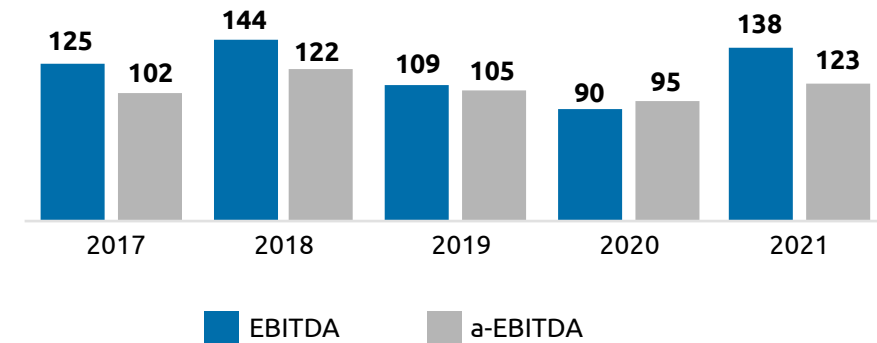
Aluminium segment at a glance

- Elval delivered growth as it responded to improved demand, and strategically supported sectors facilitating the energy transition and climate change mitigation.
- Additional production capacity, provided by the newly installed four-stand tandem hot rolling mill, strengthened Elval's operational advantage and optimized its product mix.
- Phase two of the segment's investment programme (which includes the six-high cold rolling mill and the new automated lacquering line) continued.
- Symetal's profitability improved as it adapted to market trends, increased sales of flexible packaging and lidding foil, and absorbed costs related to energy and raw materials price increases.
- Etem Bulgaria's automotive division launched its new BMW project in 2021, while other projects in the pipeline entered final preparation stages.
- Demand at Bridgnorth Aluminium returned to pre-pandemic levels, positively impacting volumes. It continued to develop its product mix though cost pressures due to inflation resulted in a weaker financial performance.
- By processing aluminium, with its recyclable properties and numerous rolling possibilities, to manufacture products and provide solutions that enable a more sustainable future, the companies in the segment are strategically positioned to capture growth opportunities created by the global response to climate change, quest for energy efficiency and the move to the circular economy.

Revenue (EUR million)



EBITDA (EUR million)

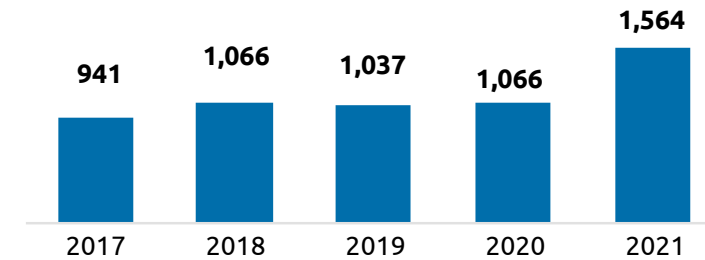




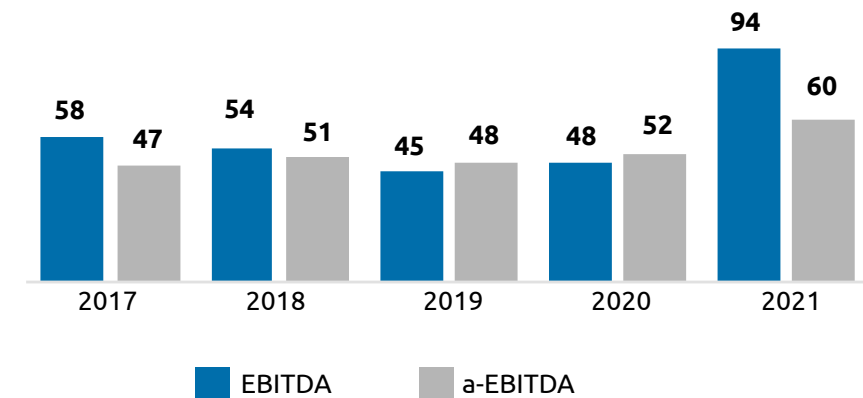
Copper segment at a glance

- Improved market sentiment drove increased volumes in the copper segment, with strong demand across most markets throughout 2021.
- Most copper segment companies performed well, with the recovery of copper alloy markets and continued growth in flat-rolled products boosting sales volumes.
- Halcor, the copper and alloys extrusion division of ElvalHalcor, achieved a marginal increase in copper tubes sales, but significant growth in sales of alloy rods and tubes which fully recovered in volumes and profitability.
- Healthy demand for enameled wires increased sales volumes at Cablel Wires.
- Sofia Med's five-year strategic growth plan remained on track during the year as sales in both copper and copper alloy rolled products and extruded copper products continued to grow for another year.
- Market conditions in 2022 are expected to remain favorable as the pandemic gradually recedes.

Revenue (EUR million)



EBITDA (EUR million)

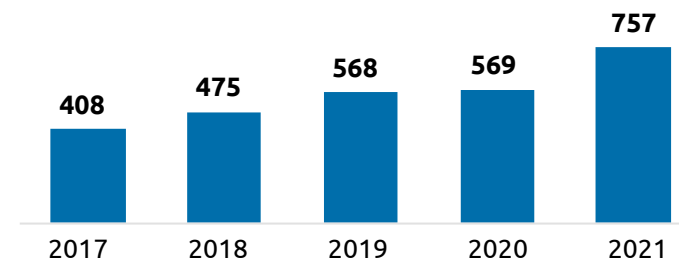




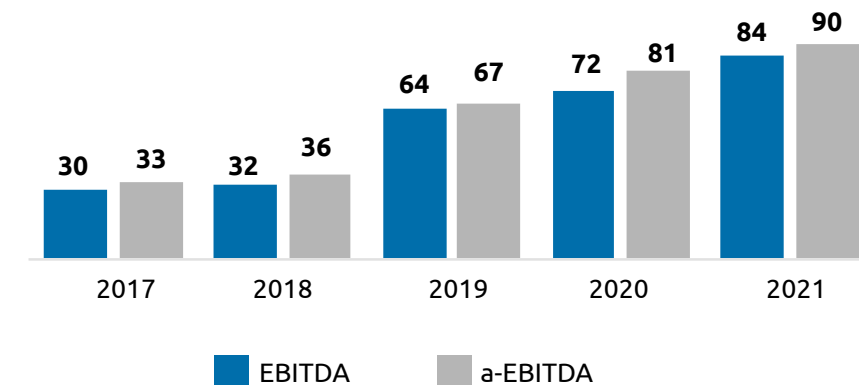
Cables segment at a glance

- The performance of the cables segment reflects solid growth across both the projects and products businesses.
- All plants maintained a full production schedule throughout the year, resulting in further growth in profitability.
- Hellenic Cables continued its tendering activity and was awarded several projects in the offshore wind and interconnections markets, along with with frame contracts from major transmission system operators.
- Sales volumes of the products business unit increased due to an upturn in demand and its successful commercial strategy.
- Investment in Hellenic Cables' submarine plant in Corinth to expand its inter-array cables capacity continued during the year and is almost complete.
- By the end of the year, the order backlog of the segment exceeded EUR 650 million.
- The segment remains focused on the successful execution of existing projects and securing the award of new projects, while exploring possible new business opportunities around the globe.

Revenue (EUR million)



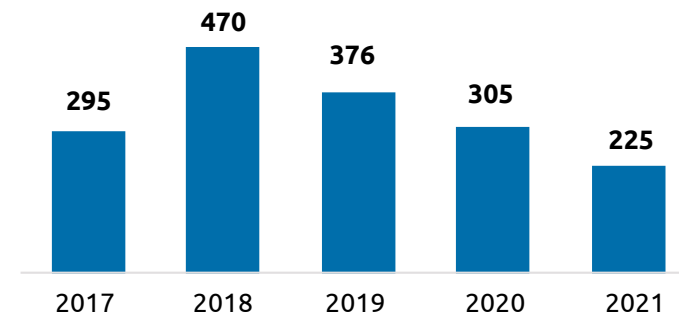
EBITDA (EUR million)



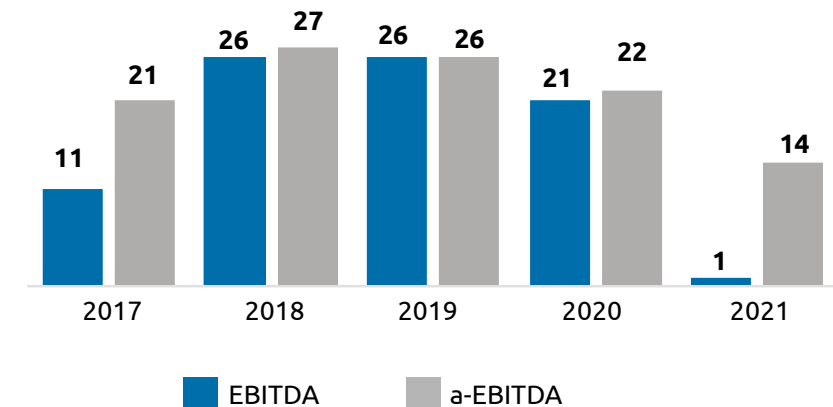
Steel Pipes segment at a glance

- 2021 was a challenging year for the steel pipes segment. A recovery in energy consumption, reduced supply capacity due to postponements, and the cancellation of multiple fossil-fuel distribution projects led to exceptionally high energy prices.
- In H2 2021, several pipeline projects resumed to facilitate the transfer of natural gas, the key intermediate fuel in the global energy transition.
- Initiatives to enhance Corinth Pipeworks' competitiveness continued, including the delivery of a program of major energy company qualifications and the development of pipelines certified to transport up to 100% hydrogen.
- At the end of the year, the backlog increased reaching EUR 350 million.
- Corinth Pipeworks remains focused on R&D initiatives and the penetration of new geographical and product markets.

Revenue (EUR million)



EBITDA (EUR million)

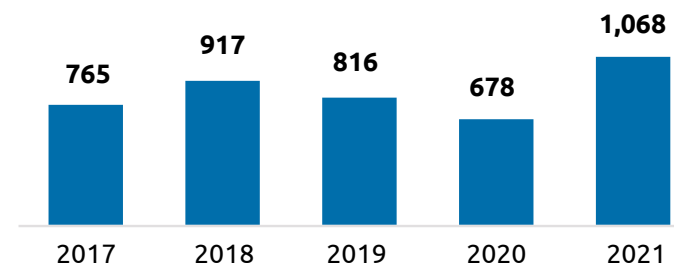




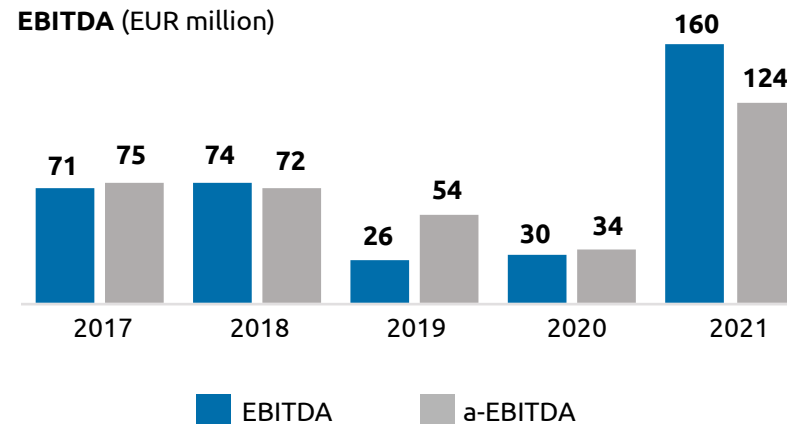
Steel segment at a glance

- The steel segment experienced a gradual uplift in demand during the year and maintained its dominant market position in Greece, the Balkans and Cyprus. The combination of these factors led to a remarkable performance for the year.
- The emerging benefits of cost reduction efforts initiated in 2020, further improved profitability.
- The steel segment secured supply of scrap, facilitating uninterrupted delivery of products to customers, continuous high service levels and the realization of increased production and sales volumes across all product categories. At the same time, the segment significantly increased prices leading to higher spreads in all product categories.
- Sidenor became the first steel producer in Greece to be awarded the EPD (Environmental Product Declarations) for SD concrete reinforcing steel products, which provides important information on a product's life cycle, vital to improving sustainability in production.
- Uncertainty due to the pandemic, geopolitical issues, disruption to the global supply chain and high energy prices is expected to continue. However, the segment's companies will continue to effectively adapt to ongoing changes.

Revenue (EUR million)



EBITDA (EUR million)

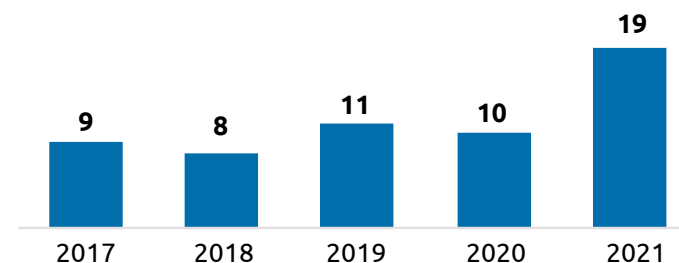




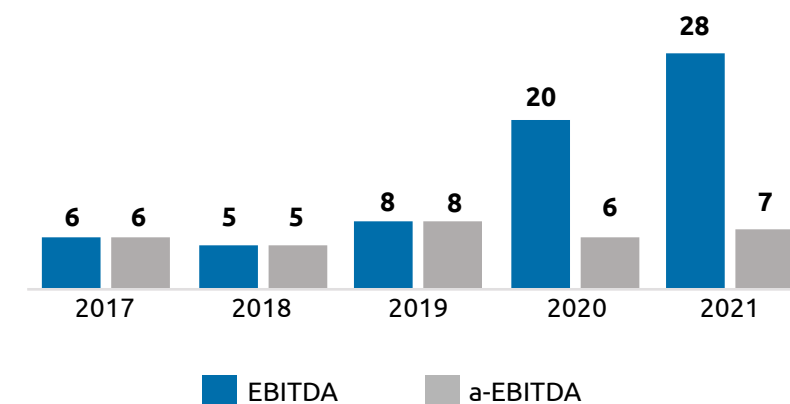
Real Estate segment at a glance

- Noval Property continued its investment programme during 2021.
- The expansion of the River West shopping centre was completed, boosting the value of investment property and increasing rental income for the REIC.
- Noval Property acquired (in JV with a real estate fund) a prime plot of land in Athens, where a large-scale environmentally friendly office complex will be developed.
- It also issued a Green Bond Loan of EUR 120 million, listed in the Category of Fixed Income Securities of the Regulated Market of the Athens Stock Exchange.
- Noval Property will continue to actively manage its asset portfolio, develop its captive pipeline and explore new acquisitions. Its focus will be on environmentally-accredited prime office buildings, logistics, data centres, resort hotels, residences, and mixed-use urban regeneration projects.

Revenue (EUR million)



EBITDA (EUR million)



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- Competition;
- Legislative and regulatory developments;
- Global macroeconomic and political trends;
- Fluctuations in financial markets conditions;
- Delay or inability in obtaining approvals from authorities;
- Technical developments;
- Litigation; and
- Adverse publicity and news coverage.

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