



engineering procurement construction  
hellenic construction société anonyme

*implementing sustainability*

brief company profile

2021



# about

**cantreva** is a world-class engineering, procurement and construction (EPC) contractor and part of a limited number of companies worldwide combining experience in renewable energy and telecommunications projects.

Our integrated expertise is the result of a merger between several independent entities highly specialized in communications and three renewable energy disciplines - solar, wind and hydropower. Our teams bring that multidisciplinary strength to every undertaking of ours.

Delivering turnkey solutions, we provide the full spectrum of EPC services, from concept to construction, management and operations to maintenance, and more.

Thanks to our highly dedicated team of specialists and our global network of trusted partners, affiliates, subcontractors and suppliers, we can help clients solve complex challenges with innovative ideas, delivering projects that are on time and within budget.

**What is EPC?** The contractor awarded a contract undertakes the task to provide engineering, procurement and construction services, hence the complete range of services required for the completion of the project. EPC is a form of a "turn-key" delivery process, therefore it is considered a very safe contract form for the project owner.

**What is sustainability?** Sustainability is the ability of a system to exist constantly at a cost, in a universe that evolves towards thermodynamic equilibrium, the state with maximum entropy. In the 21st century, it refers generally to the capacity for the biosphere and human civilization to coexist. (definition by Wikipedia)

# the cantreva difference



Dedicated to the principle of creating shared value (CSV), **cantreva** works alongside its global network of partners to drive social and economic progress while ensuring the long-term success of its clients.

Through strict adherence to earned value management (EVM) practices, we deliver efficiency during construction, services and operational project lifecycles, maintaining improved project certainty.

Our exceptional competency in budget, schedule and performance risk management ensures seamless fit-for-purpose project delivery, which enables our clients to focus on the critical task of developing the business systems and processes of their new assets in anticipation for their operation.



# services

## integrated solutions, singular expertise

**cantreva** provides a comprehensive range of integrated engineering, procurement, construction and management solutions to clients around the world and across industries, particularly those in the energy, telecommunications and commercial markets.

Our offerings range from feasibility and buildability studies, to project management, system maintenance, and more. With our integrated expertise, innovative technologies and global network of vetted affiliates, partners, subcontractors and suppliers, we are delighted to address the needs of any project anywhere, anytime, delivering best-in-class quality, value and safety.

**cantreva** 's main areas of expertise are:



### **renewable energy:**

Photovoltaic plants, wind farms, hydroelectric plants, step-up substations, medium and high voltage transmission lines, operation and maintenance.



### **telecommunications:**

Fiber-optic networks (FTTx, etc.), data farms and data centers.



### **heavy duty:**

Gas stations, warehouses, industrial fire safety upgrades, various commercial applications.



### **built environment:**

Residential, corporate, commercial and leisure buildings and structures.

# completed projects

## energy sector



### cantreva's consolidated experience in renewable projects



#### photovoltaic plants

technical due diligence: > 6.500 MWp

engineering: > 3.000 MWp

construction: 120 MWp

O & M: > 1200 MWyears



#### wind farms

technical due diligence: > 3.500 MW

engineering: > 1.500 MW

construction: 250 MW



#### hydro plants

technical due diligence: 35 MW

engineering: 18 MW

construction: 6 MW (2 plants)



#### step-up (MV/HV) substations

engineering: 12 stations

construction: 6 stations

O&M: 4 stations



#### transmission lines (HV)

engineering: 180 km

construction: 50 km

# projects in progress

## energy sector

### cantreva 's current undertakings in progress



#### photovoltaic plants

**under green field development: 2.500 MWp**

in engineering: 2.500 MWp

bidding for: 120 MWp



#### wind farms

bidding for: 350 MW



#### step-up (MV/HV) substations

in engineering: 14 stations



#### transmission lines (HV)

in engineering: 150 km

### cantreva 's clients include

private sector investors

multinational IPPs (independent power producers)

public organizations



# innovation and digitalization



Innovation and digitization lie at the heart of **cantreva** 's corporate culture and success. Every year, we allocate significant resources to research and development, improving existing products and processes and inventing, integrating and marketing a wide range of new proprietary technologies that solve unique problems for clients across the industries we serve.

Innovation has helped us improve project efficiency with results that are faster, safer, cost effective and more improved than ever before. Along with digitization and automation, it becomes instrumental in optimizing our business models and services, making them more agile and proactive.

Innovation and digitalization will continue illuminating the path to a brighter, more sustainable future, bringing value to our clients along the way.

## Examples of our recent innovations:

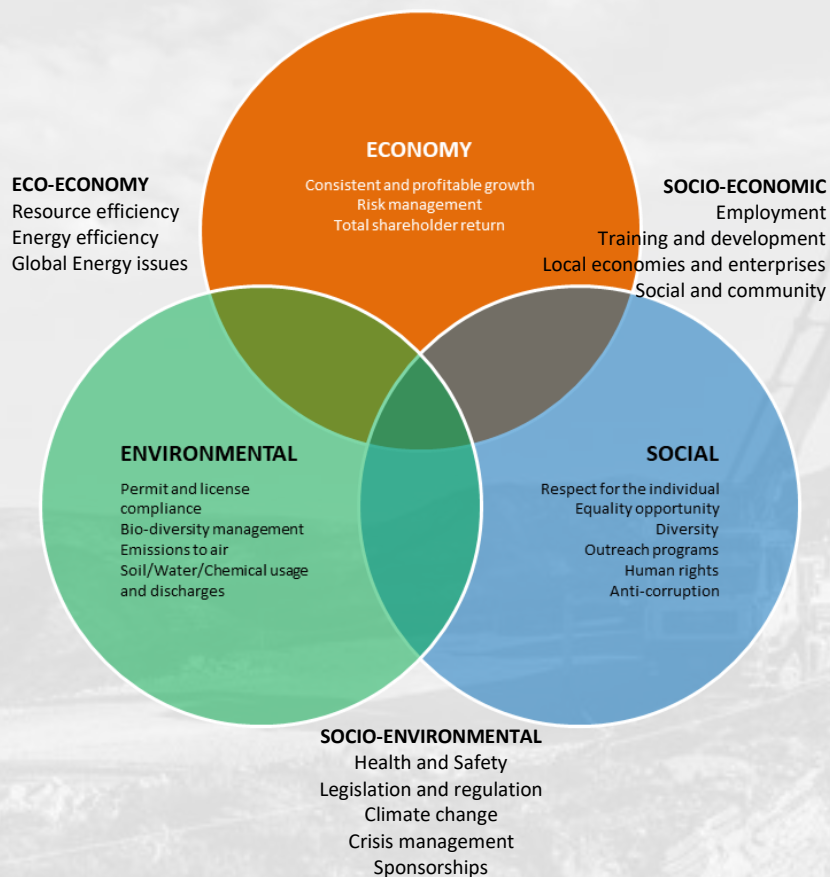
- New lightweight screw type pile foundation system  
Advantages: application flexibility, quick installation and low cost
- New structural support system for photovoltaic plants  
Advantages: quick installation and low cost
- New electrical switching components for PV plants  
Advantages: increased performance ratio
- New pilling foundation system for WTGs  
Advantages: quick installation and low cost

## Examples of recent digitalization in our processes:

- Secure cloud-based databases  
Advantages: Remote, seamless, global, redundant and secure data availability
- Digitally guided earthworks e.g. via GPS data integration  
Advantages: Precision in execution and resources optimization
- Automated installation works e.g. PV supports' pilling  
Advantages: Precision and speed of works, resources optimization. Note: under R&D
- Integration of online business process collaboration platforms  
Advantages: Remote, secure, global process governance and project management



# sustainability



**sustainability**

The integrated approach to environmental, social & economic impact issues (internal and external) leads to long term, sustainable profit growth.

...more in detail, since 2010 we have achieved:

## health and safety **OHSAS-18001 certified**

- ⇒ Zero fatal accidents
- ⇒ More than 1.000 safety behavior observations leading to adoption of best practices
- ⇒ Less than 25 near miss cases
- ⇒ More than 2.500.000 work hours without serious accidents
- ⇒ Less than 100 lost hours due to minor accidents

## environmental impact **ISO-14001 certified**

- ⇒ Zero environmental breaches
- ⇒ More than 500 environmental behavior observations
- ⇒ More than 85% of excavated material beneficiary recycled and/or resused

## relative CO<sub>2</sub> improvement

- ⇒ 26% relative CO<sub>2</sub> reduction
- ⇒ 35% CO<sub>2</sub> saving during construction against baseline emissions

## anti-corruption principles

- ⇒ More than 45 managers trained in anticorruption principles

## labor principles

- ⇒ More than 25 managers trained in labor principles

## equal opportunities

- ⇒ More than 60 university student trainees
- ⇒ More than 75 new hirings directly upon degree conclusion

## training

- ⇒ More than 65 machinery operators attended skill improvement courses
- ⇒ More than 100 employees attended safe driving training courses
- ⇒ More than 90% of all personnel annually trained in HSE

## procurement responsibility

- ⇒ More than 65% of vendors evaluated and registered in compliance portal

## sponsorships

- ⇒ BoD commitment to sponsor community actions

**cantreva** aims to provide high quality construction related services through continuous improvement driven by the integrity, teamwork, technical expertise and innovation of our personnel.

Building on our virtues and capabilities we seek to be part of the selected few working for a better and sustainable world.

To that end, we recognize and seize opportunities for growth that builds upon our strengths and competencies.

**cantreva** 's vision is to become the reference name in the construction market and to be admired for its people, partnerships and performance.





affiliate companies



development and trading company



design and project management consultancy

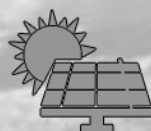


independent power producer company



**cantreva s.a.**

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