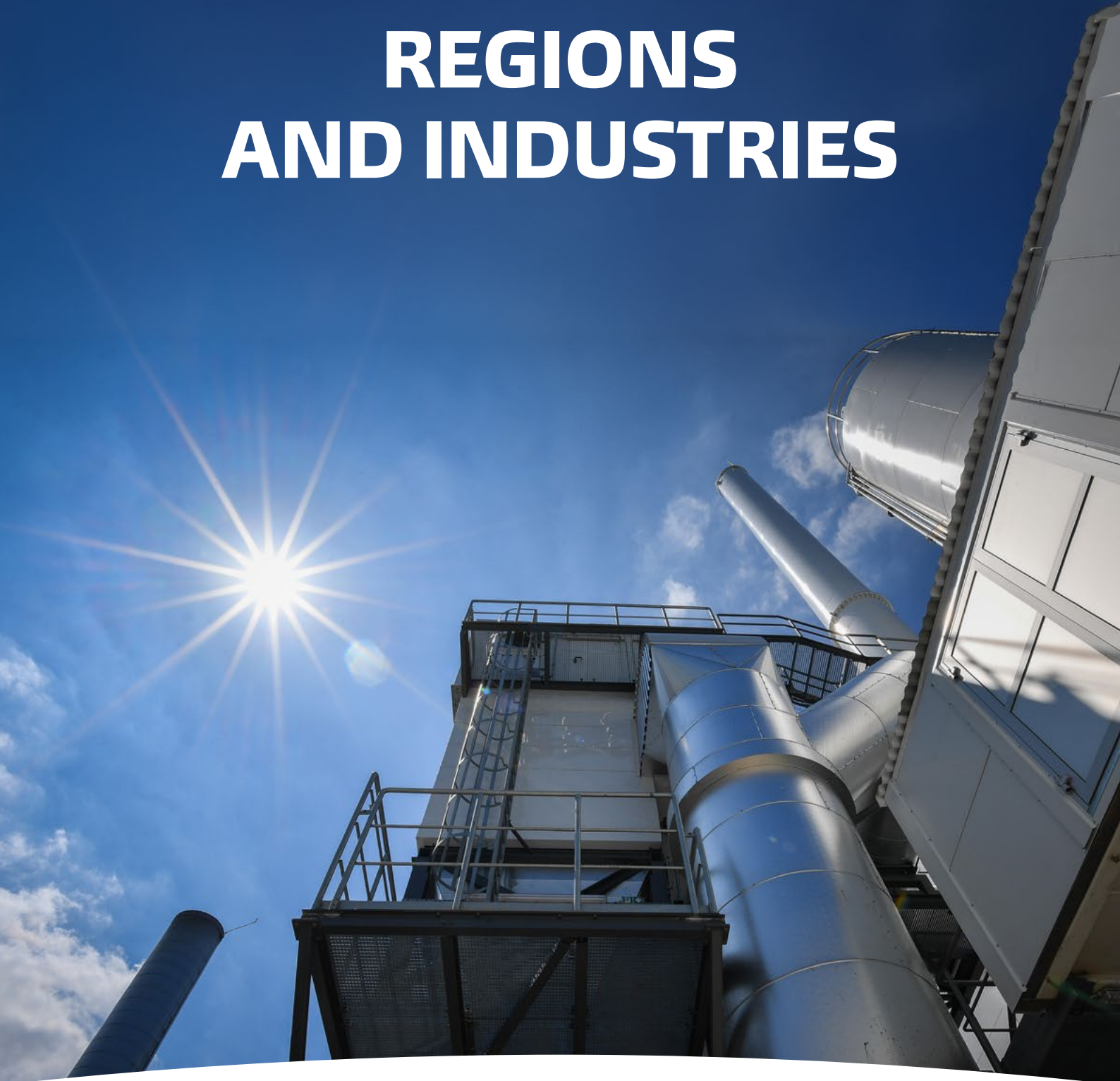


# **LOCAL INFRASTRUCTURE TO DECARBONISE REGIONS AND INDUSTRIES**





Districlima heating and cooling network in Barcelona, Spain

# DECARBONISING REGIONS AND INDUSTRIES: CHOOSING LOCAL RESOURCES

The energy transition requires a far-reaching transformation of cities, buildings and industries, which account for a large proportion of CO<sub>2</sub> emissions. Speeding up decarbonisation is essential – for the climate, for competitive businesses and for purchasing power.

District heating and cooling networks, decentralised production, optimisation of consumption: the solutions offered by ENGIE **are based on locally available resources** (waste heat, biomass, geothermal energy, solar energy, seawater and wastewater) **and form part of a circular economy approach.**

These types of local energy infrastructure enable energy to be produced, distributed and optimised as closely as possible to customers' needs. **They offer a practical solution for reducing CO<sub>2</sub> emissions and energy bills, and for strengthening the resilience and energy sovereignty of local areas.**

ENGIE operates **25.7 GW of installed capacity in local energy infrastructure** in Europe, the Middle East and South-East Asia, and distributes 29.4 TWh of energy, which helped avoid 1.3 Mt of CO<sub>2</sub> last year.

By 2030, the Group is committed to doubling the production of low-carbon energy and the energy savings achieved by its customers.

Beyond the challenge of reducing CO<sub>2</sub> emissions, local authorities and industry must adhere to ambitious decarbonisation roadmaps, while coping with significant financial constraints. ENGIE is there to support them and help them achieve their objectives: decarbonising while meeting end-use demand and improving their sustainability at the same time.



# TECHNICAL EXPERTISE AND LOCAL PRESENCE



Operations technicians at the Enoris site in Massy, France

**The Group's strength lies in its expertise across all technologies, enabling it to design the most relevant tailored solutions for each local area.**

Biomass, geothermal energy, heat recovery or wastewater recovery: different solutions suit different locations. Thanks to their strong local presence, ENGIE's teams offer bespoke support, closely tailored to customers' needs, **across the entire value chain: from design to operation, including the construction, maintenance and financing of energy facilities.**

ENGIE's business model is based on its ability to invest in facilities and enter into long-term contracts with its customers, with measurable commitments to reduce energy consumption.

# HIGH-PERFORMANCE SOLUTIONS

## HEATING AND COOLING NETWORKS: DECARBONISING CITIES

District heating and cooling networks enable heating and cooling to be shared across a neighbourhood, city or region.

**They rely on available local resources** (geothermal energy, biomass, industrial waste heat, energy recovery from household waste, and heat recovery from seawater or wastewater) to produce reliable, affordable low-carbon energy.

These local energy networks enable our customers to significantly reduce their emissions.



**372**  
heating and cooling  
networks



Fraîcheur de Paris cooling plant, Paris, France

# ON-SITE PRODUCTION AND OPTIMISATION: DECARBONISING INDUSTRY AND BUILDINGS

ENGIE supports its industrial and commercial customers by implementing energy solutions directly on-site, tailored to their specific needs.

These solutions are based on two complementary approaches:

- **Energy production from local and renewable resources** (solar, geothermal, biogas, waste heat recovery, and others)
- **Optimisation of energy consumption, in particular through the use of smart management tools**

By bringing energy production closer to where it is used, this infrastructure also enhances the energy resilience of industrial sites and buildings.



**197**  
equipped industrial sites

## ENERGY PERFORMANCE: REDUCING CONSUMPTION SUSTAINABLY

Beyond infrastructure, ENGIE is focusing on a key driver of the energy transition: the management of energy consumption.

**Based on a detailed analysis of its customers' usage patterns,** concrete measures are being implemented to improve the energy performance of buildings and facilities:

- **Optimisation** of heating and electrical systems
- **Smart management** and digitalisation
- **Increased integration** of renewable and recovered energy
- **Renovation** of buildings

These solutions help reduce energy consumption, CO<sub>2</sub> emissions and costs. ENGIE makes a contractual commitment to generating savings, notably through schemes such as energy performance contracts, while ensuring a high level of comfort for users.



**50,000**  
supported buildings

# FOCUS ON PROJECTS SHAPING THE FUTURE

## **BURGOS, SPAIN**

### **A LOW-CARBON HEATING NETWORK FOR THE NEIGHBOURHOOD**

In the Gamonal neighbourhood of Burgos, south of Bilbao, ENGIE is developing a district heating network that incorporates several renewable and waste-to-energy sources (including **biomass** and **geothermal energy**) as well as **thermal storage**.

This project will supply competitive, low-carbon heating on a large scale by making use of available local resources, while limiting dependence on fossil fuels.

**65 GWh** of thermal energy produced annually

**18,600 tonnes** of CO<sub>2</sub> emissions avoided annually

**35-year** contract

## **AIRBUS, EUROPE**

### **DECARBONISING INDUSTRY ON A LARGE SCALE**

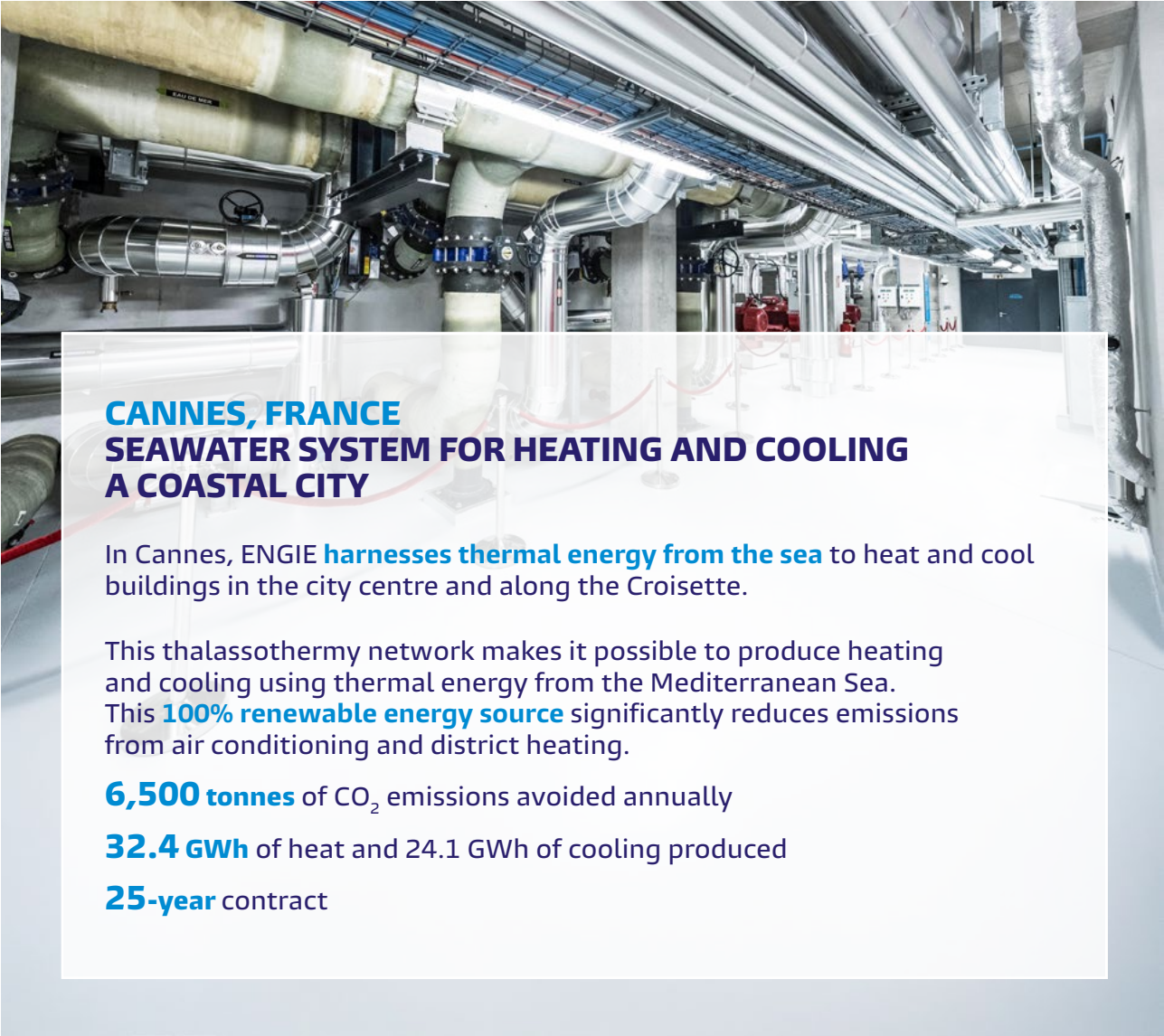
ENGIE is supporting Airbus in an ambitious energy transition programme across **22 industrial sites in France, Germany and Spain**.

This project combines **biomass, heat pumps, industrial heat recovery and energy performance contracts** in order to achieve a sustainable reduction in emissions while improving the energy efficiency of facilities.

**85% reduction** in greenhouse gas emissions by 2030 (compared with 2015)

**20% reduction** in energy consumption





## **CANNES, FRANCE** **SEAWATER SYSTEM FOR HEATING AND COOLING** **A COASTAL CITY**

In Cannes, ENGIE **harnesses thermal energy from the sea** to heat and cool buildings in the city centre and along the Croisette.

This thalassotherapy network makes it possible to produce heating and cooling using thermal energy from the Mediterranean Sea. This **100% renewable energy source** significantly reduces emissions from air conditioning and district heating.

**6,500 tonnes** of CO<sub>2</sub> emissions avoided annually

**32.4 GWh** of heat and 24.1 GWh of cooling produced

**25-year** contract

## **FLORENCE, ITALY** **IMPROVING THE ENERGY PERFORMANCE OF PUBLIC BUILDINGS**

In Florence, ENGIE is implementing a wide-ranging programme of **energy renovation** for more than 400 municipal buildings.

The project aims to achieve a sustainable reduction in energy consumption and emissions, while improving user comfort and supporting the local authorities with the energy transition.

**More than** 400 buildings renovated

**30%** savings on thermal energy

**23%** savings on electrical energy

**1,600 tonnes** of CO<sub>2</sub> avoided annually

**9-year** contract



## FIGURES FOR 2025

**25.7 GW**

of installed capacity in 2025

**29.4 TWh**

of energy distributed in 2025

**1.3 Mt**

of CO<sub>2</sub> emissions avoided in 2025

## TARGETS FOR 2025-2030

HEATING AND COOLING  
NETWORKS

**350**



**550**

INDUSTRIAL SITES

**160**



**250**

BUILDINGS

**50,000**



**60,000**

## DOUBLE

- Our low-carbon energy production
- Energy savings generated for our customers

## **5 PRIORITY COUNTRIES IN EUROPE AND A PRESENCE IN SOUTH-EAST ASIA AND THE MIDDLE EAST**



# NOTES



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