



EUROPE'S FUTURE ENERGY SYSTEM

THE ROLE OF COGENERATION

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THE WORLD IS CHANGING.
EUROPE IS CHANGING WITH IT

The challenge of climate change is stirring a wave of positive innovation around Europe. Exciting new ideas are emerging to improve our way of life. Supplying the energy needed by people and the economy, the energy sector has a key role to play in driving this change: we cannot afford to waste energy if we are to successfully move to clean, reliable and affordable future energy system.

As Europe moves to reduce greenhouse gas emissions and shift to a sustainable society, it is leading the way in building the future energy system. The EU has set ambitious energy and climate change objectives to ensure that Europe relies on secure, affordable and climate-friendly energy, putting consumers at the centre while boosting competitiveness and growth.



OUR VISION

The cogeneration sector is committed to creating a resilient, decentralised, carbon neutral European energy system by 2050, with cogeneration as its backbone:



EMPOWERING

European citizens and industry to generate their own efficient, reliable and affordable clean heat and power locally



BRINGING TOGETHER

heat, electricity and gas networks, allowing the efficient integration of substantial amounts of renewable energy and providing energy when and where needed



ENABLING

an integrated energy system and a cost-effective transition towards a sustainable future

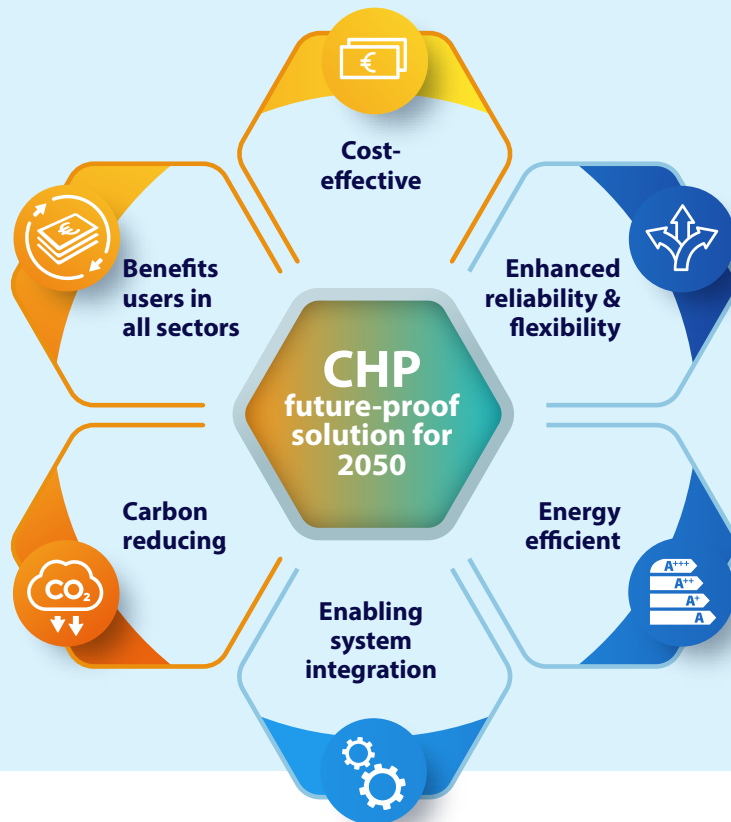


COGENERATION (CHP) IS A KEY ENABLER TO ACHIEVE CARBON NEUTRALITY IN EUROPE BY 2050.

Realising the cost-effective potential for cogeneration in all sectors will maximise energy efficiency and integration of the European energy system at the lowest cost.

WHAT DOES COGENERATION DO?

CHP enhances the reliability and flexibility of an **integrated energy system**.



220TWH *

OF PRIMARY ENERGY SAVINGS

OR 2.5 x annual electricity consumption of Belgium



5.5MT **

OF REMAINING CO₂ EMISSIONS AVOIDED

OR Annual CO₂ emissions of 3 million petrol cars



8.2 BN €

SAVED YEARLY

OR 9.5x of LIFE Climate Action funding



13 - 16%***

OF TOTAL ELECTRICITY

AND ~30-36% of flexible thermally generated power at times of low wind & sun



19-27% ****

OF TOTAL HEAT

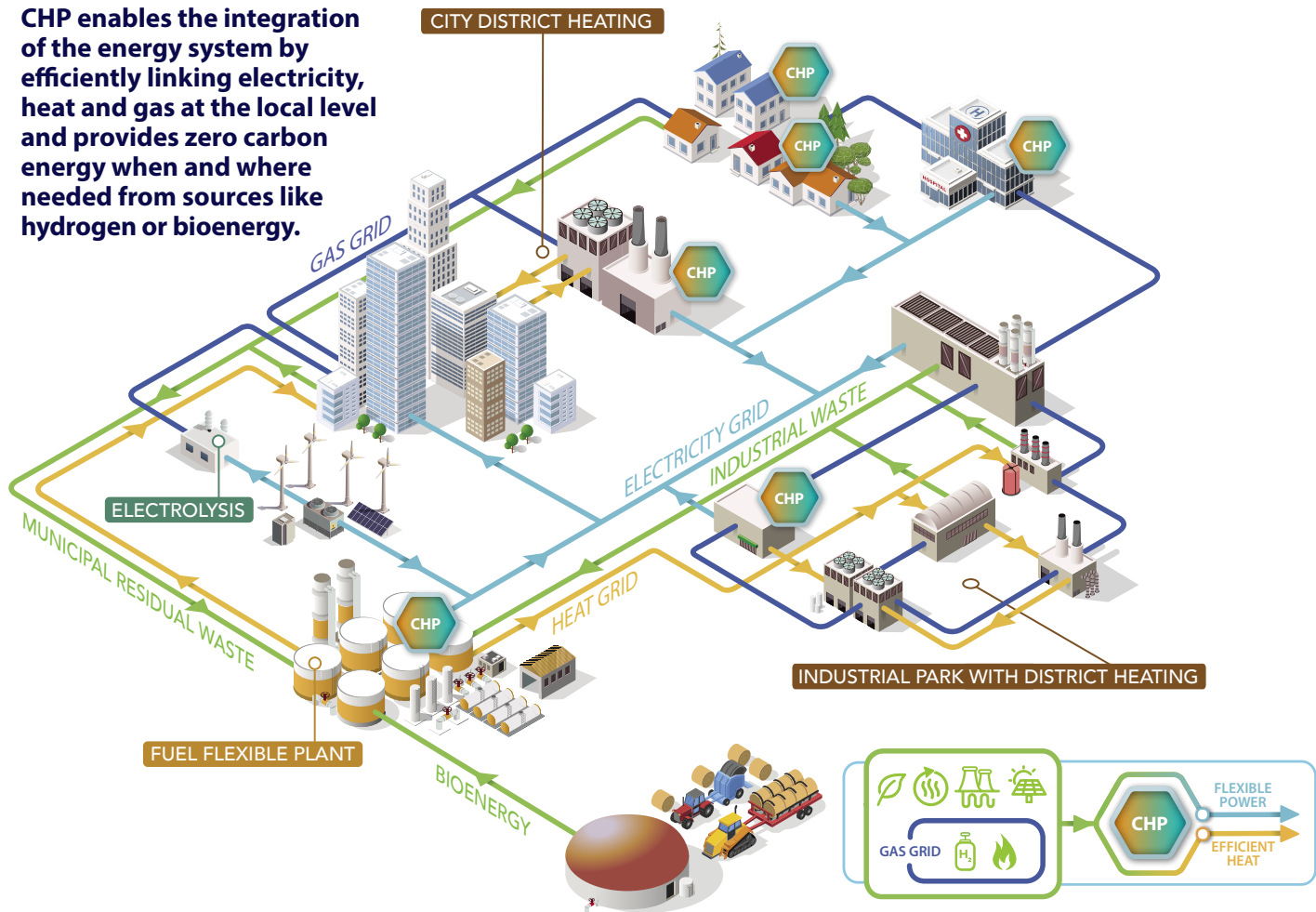
AND 52-100% of thermal heat in buildings, industry & district heating

* IEA 2019 statistic **IEA 2018 statistic ***excluding off-grid RES for P2X generation

****excluding furnaces, DHC for industry is 100% CHP

AN INTEGRATED ENERGY SYSTEM

CHP enables the integration of the energy system by efficiently linking electricity, heat and gas at the local level and provides zero carbon energy when and where needed from sources like hydrogen or bioenergy.



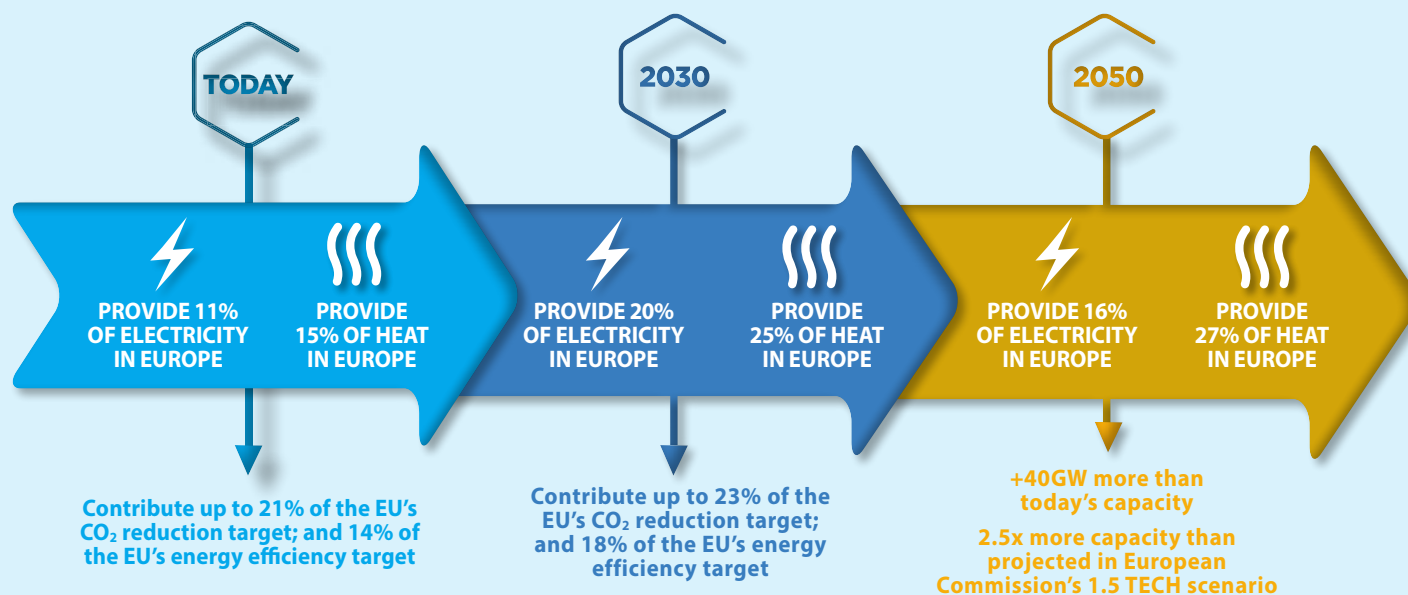
OUR MISSION

COGEN Europe, the European Association for the Promotion of Cogeneration, is the cross-sectoral voice of the cogeneration industry. Its mission is to work with EU institutions and stakeholders to shape better policies and eliminate administrative, regulatory and market barriers to the wider use of cogeneration in Europe by:

- building a robust evidence-base demonstrating the benefits of cogeneration,
- using the expertise of its membership,
- establishing strong coalitions and partnerships.

We believe a reliable, affordable and climate-friendly energy system can be built with these collaborative efforts.

OUR VISION OF COGENERATION PATHWAY FOR EUROPE



PRIORITISE COGENERATION

for all thermally generated electricity and heat, to avoid wasting valuable energy

NATIONAL ASSOCIATIONS



Kogen Polska



CORPORATE MEMBERS



Avenue des Arts 3-4-5
1210 Brussels, Belgium

Tel: +32 2 772 8290
Fax: +32 2 772 5044

info@cogeneurope.eu
cogeneurope.eu

@cogenEurope
cogenEurope

cogen europe
cogen Europe