

# COGEN Europe

Webinar: Small and medium-scale CHP from biomass: Horizon 2020 projects and the BIOCOGEN 2030 platform

9 June 2020



# Our Mission

Cross-sectoral voice of the cogeneration industry.

Work with EU Institutions and stakeholders to shape better policies by:



**BUILDING A  
ROBUST EVIDENCE-  
BASE  
DEMONSTRATING  
THE BENEFITS OF  
COGENERATION**



**USING THE  
EXPERTISE OF  
OUR  
MEMBERSHIP**



**ESTABLISHING  
STRONG  
COALITIONS  
AND  
PARTNERSHIPS**

# Members

## NATIONAL ASSOCIATIONS



## CORPORATE MEMBERS





# BENEFITS & FUTURE OF COGENERATION



# COGENERATION

Single Input

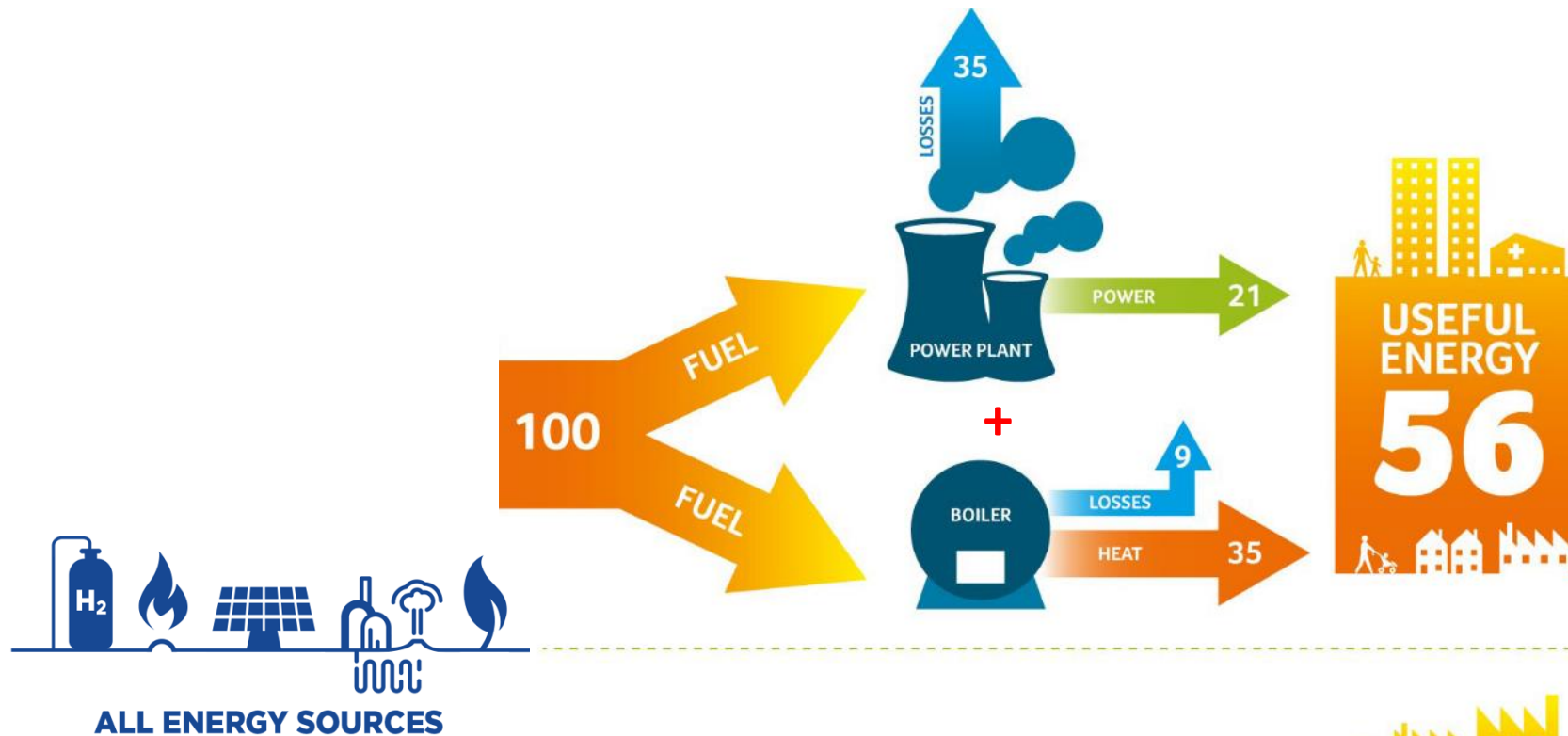
Two Outputs



Cogeneration transforms 90% of the energy into useful heat and electricity for factories, offices, public buildings and homes.



# Cogeneration: Benefits of Efficiency



- Transforms more than 80% of the energy into useful heat and electricity for factories, offices, public buildings and homes.

- Saves up to 40% energy compared to the separate supply of electricity and heat from conventional power stations and boilers.

# Putting Energy Consumers at the Centre



**INDUSTRY**



**ICONIC  
BUILDINGS**



**90 MILLION  
EUROPEAN  
HOUSEHOLDS**



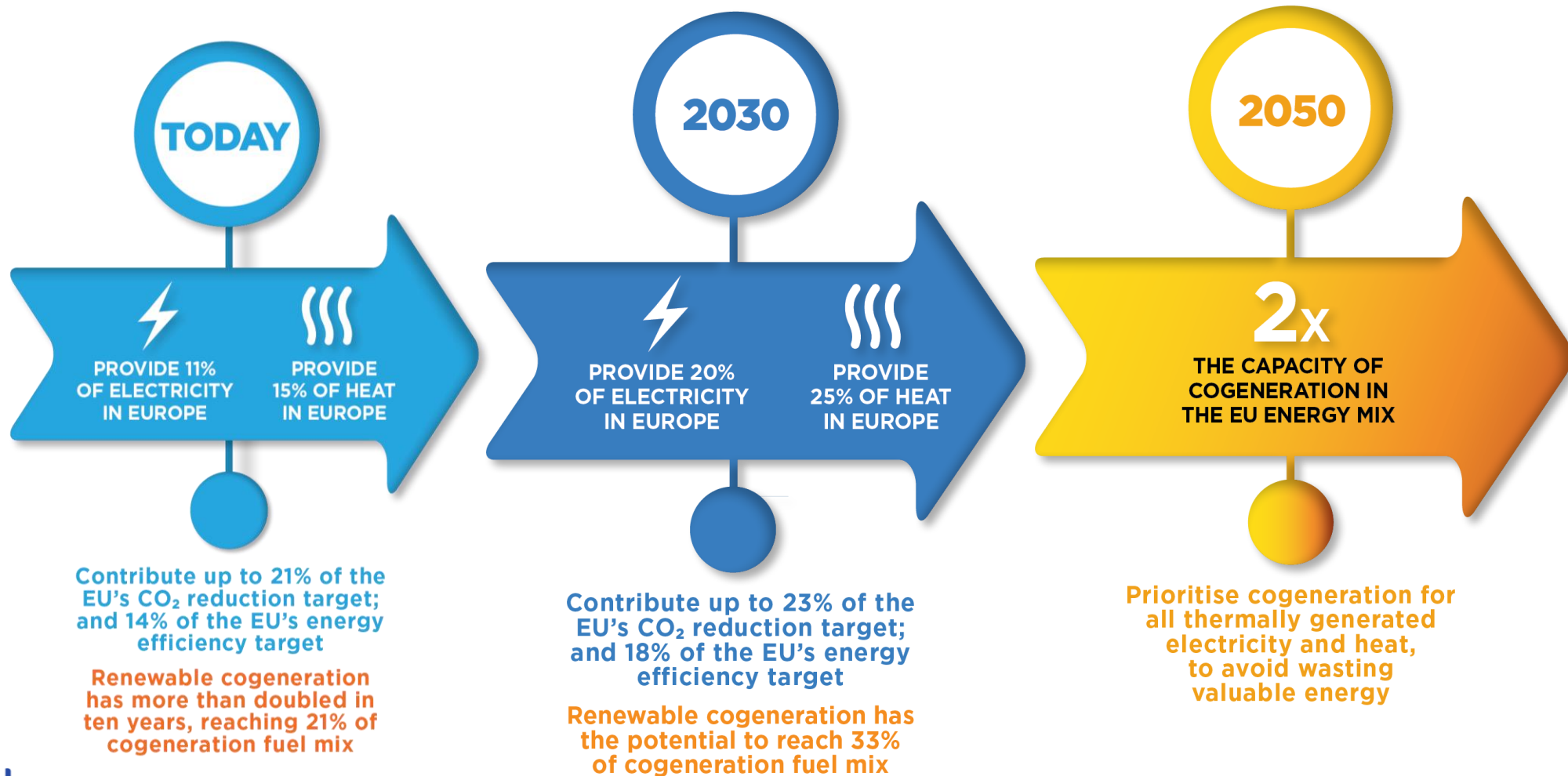
**100,000 ACTIVE  
ENERGY  
CONSUMERS**

## RESPONDING TO NEW CHALLENGES





# COGENERATION PATHWAY FOR EUROPE



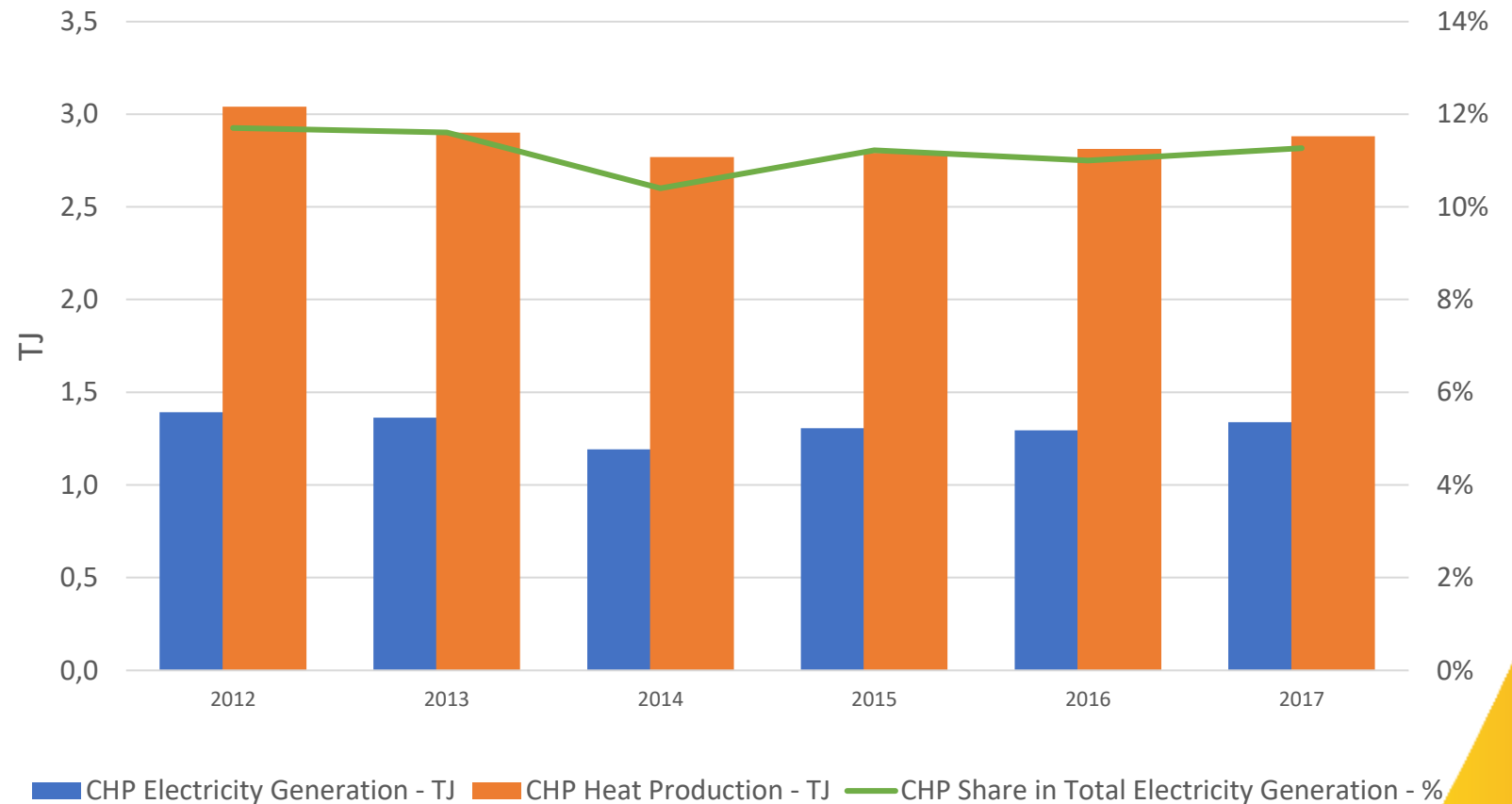
# COGENERATION IN EUROPE





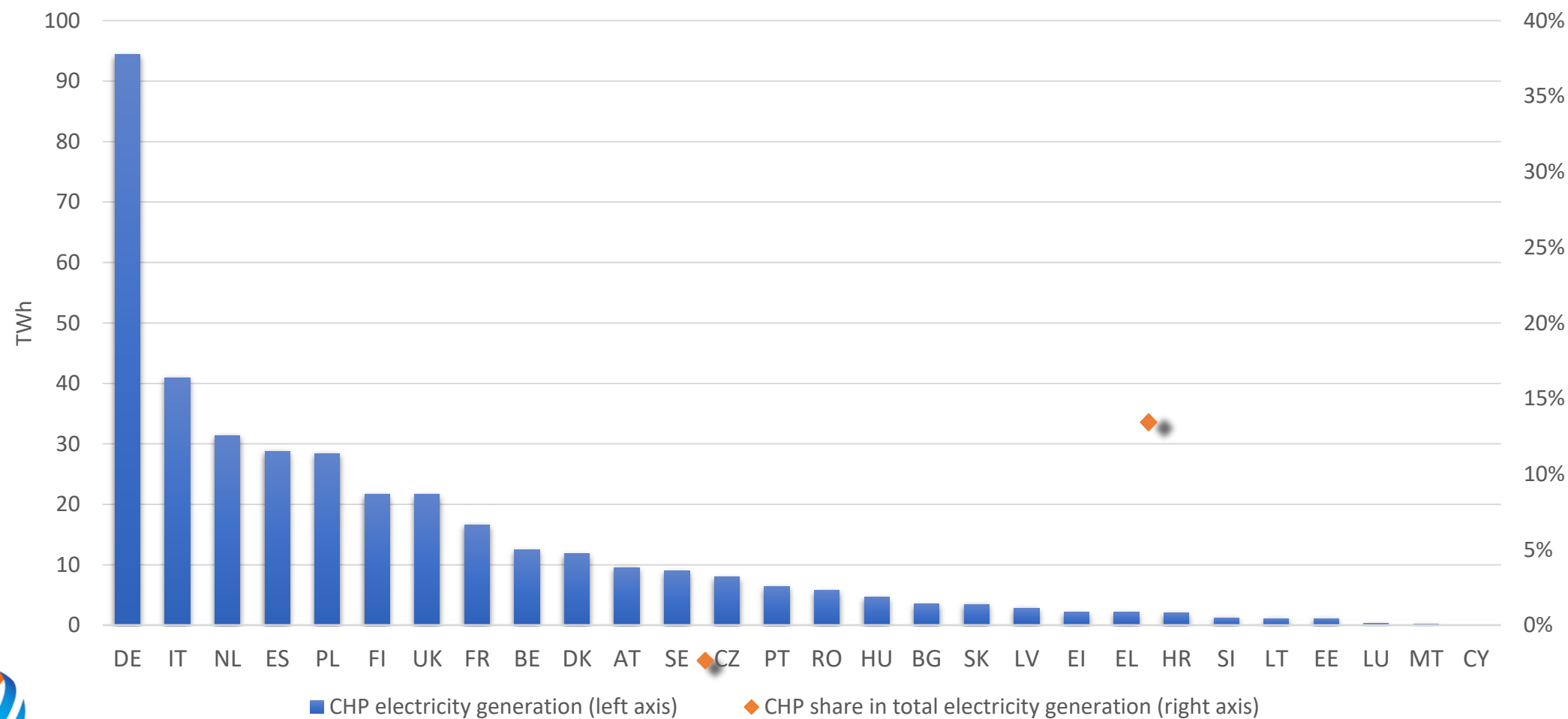
# OVERVIEW

- 122 GW<sub>el</sub> of CHP installed in 2017
- CHP represents 11,3% of total electricity production and 16,5% in heat, with potential for it to double by 2030
- CHP across the EU reduces up to 280 Mt of CO<sub>2</sub> & 630 TWh of primary energy today (equivalent to the emissions of 61 million cars)





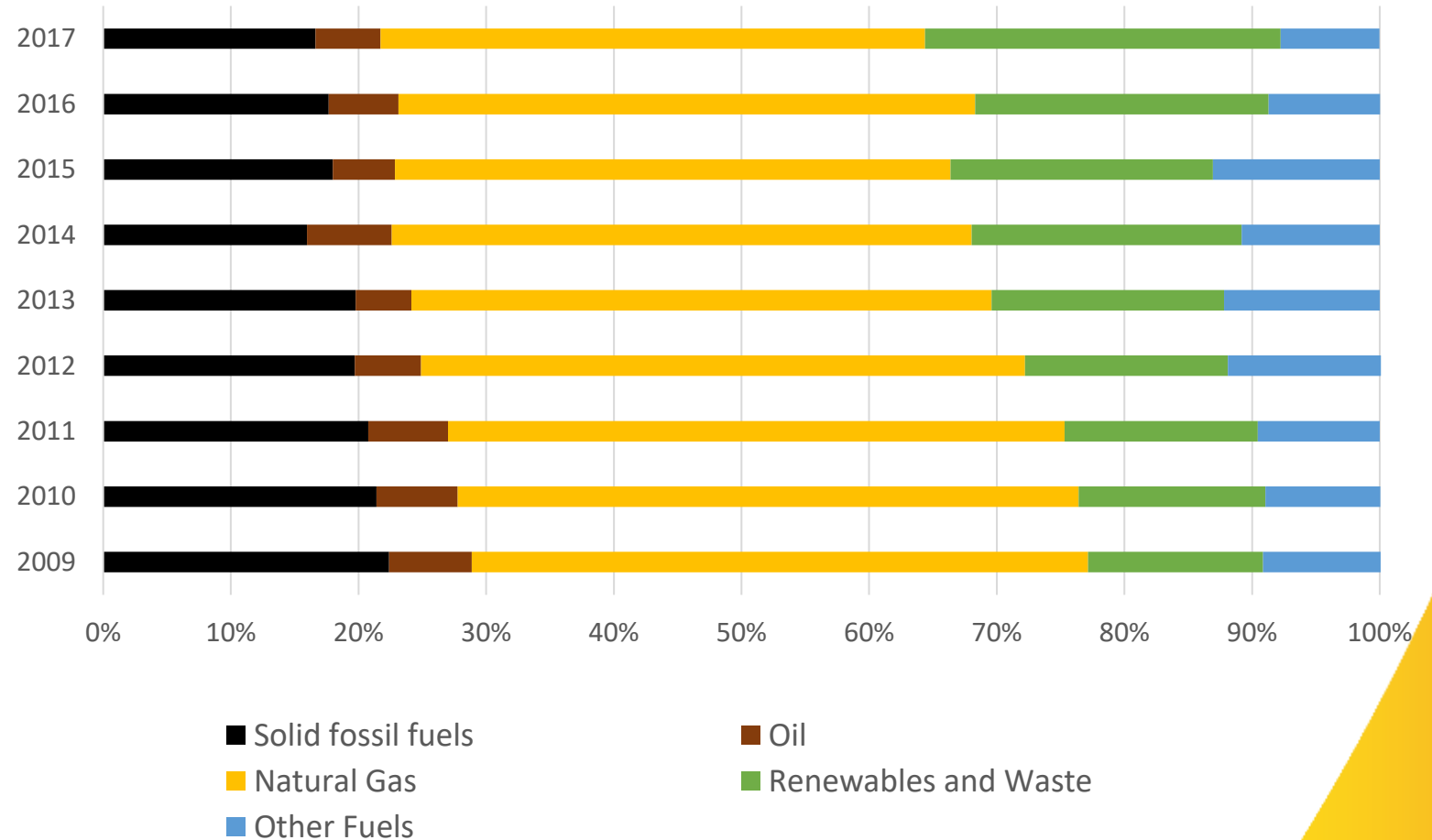
# COGENERATION BY COUNTRY



# FUEL MIX

Cogeneration fuel mix influenced by fuel price dynamics, support schemes and availability of renewable fuels at local level

- Stable share of natural gas use in cogeneration
- Rapid increase of RES, reaching close to 30% in 2017 (from 13% in 2009)
- Steady decrease in solid fossil fuels and oil use in cogeneration

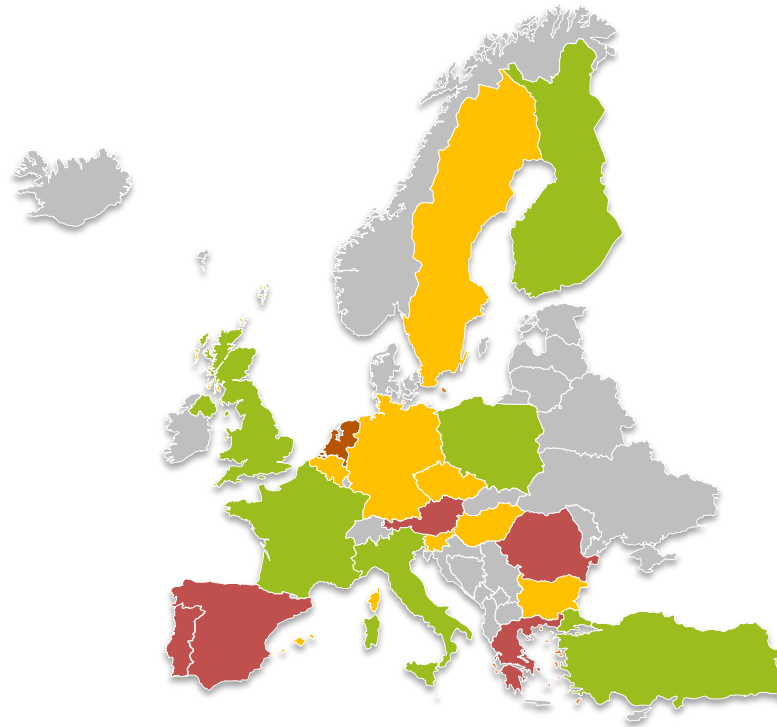


# MARKET DEVELOPMENTS

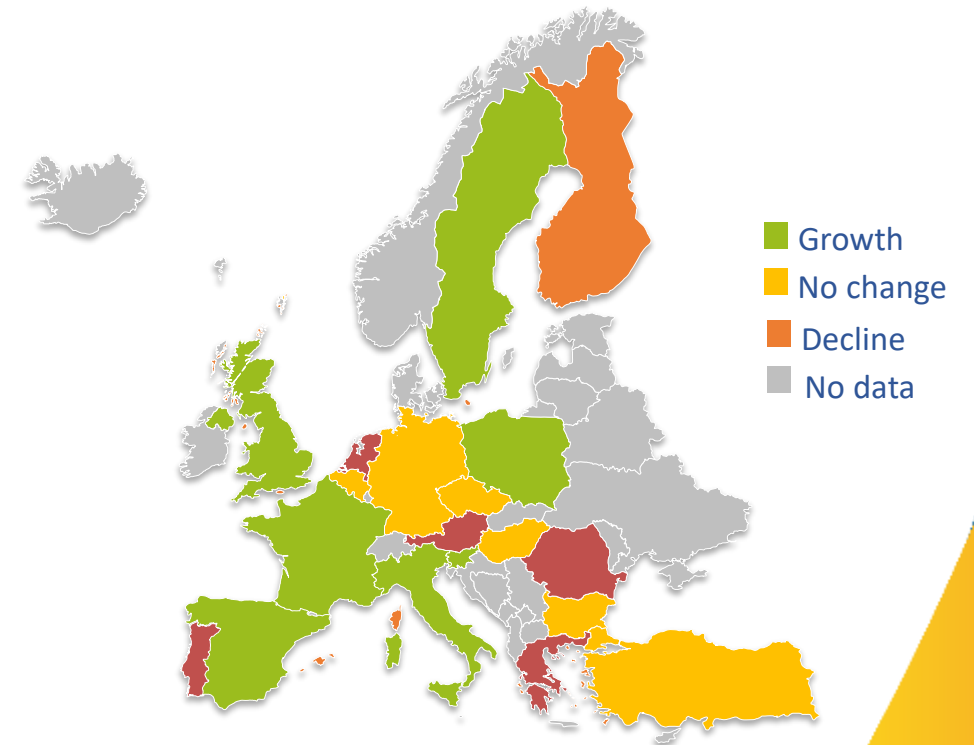
Segments with sustained growth trends:

- Renewable and natural gas cogeneration
- Commercial & domestic cogeneration

## CHP Installed Capacity



## CHP Generated Electricity





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