

# Needs and opportunities to support biogas – Is the EU and its regions on the right track for its energy transition?

European Biogas Association

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**Final conference of the BiogasAction project**

11 October 2018, Brussels



**EBA**

European Biogas Association

# 32 Countries – 39 National Organisations 67 Companies – representing >7,000 Stakeholders



[www.european-biogas.eu](http://www.european-biogas.eu)

# Drivers of the EU Energy Policies

- **International commitment**  
limit global warming to well below 2 °C
- **Commission 2015-2019 priority**  
Energy Union with secure, affordable and climate-friendly energy - an investment in Europe's future
- **EU efforts to develop a Circular Economy:** sustainable, low carbon, resource-efficient and competitive economy
- **EU targets by 2030 in RED II**
  - 32% Renewable Energy
  - Minimum of 14% alternative fuels in the final consumption mix in the transport sector
  - 1.3% annual increase of renewable energy for the heating sector



# Biogas and biomethane can do ... A lot!

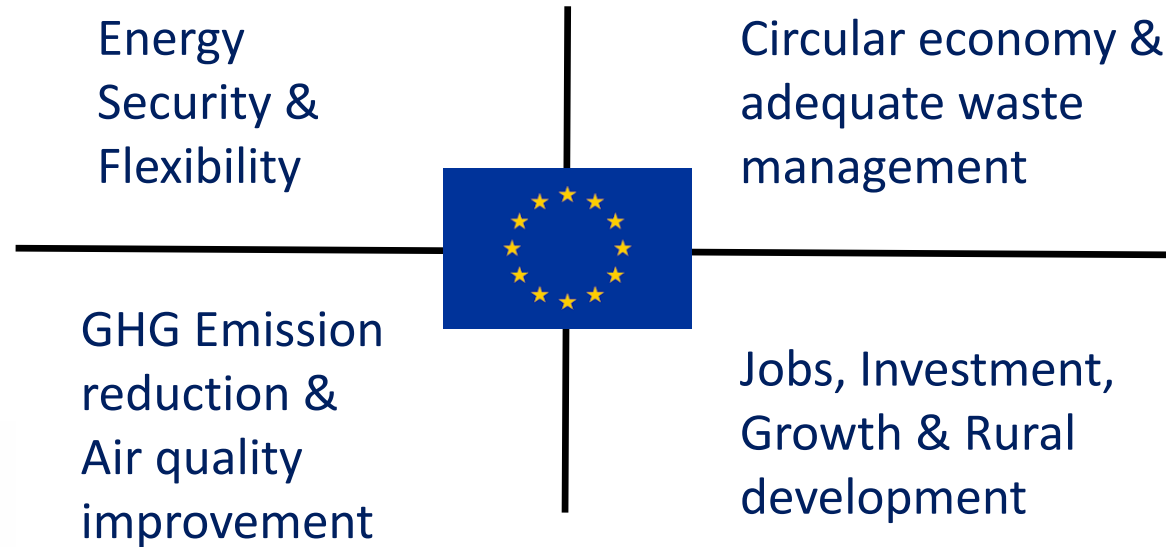
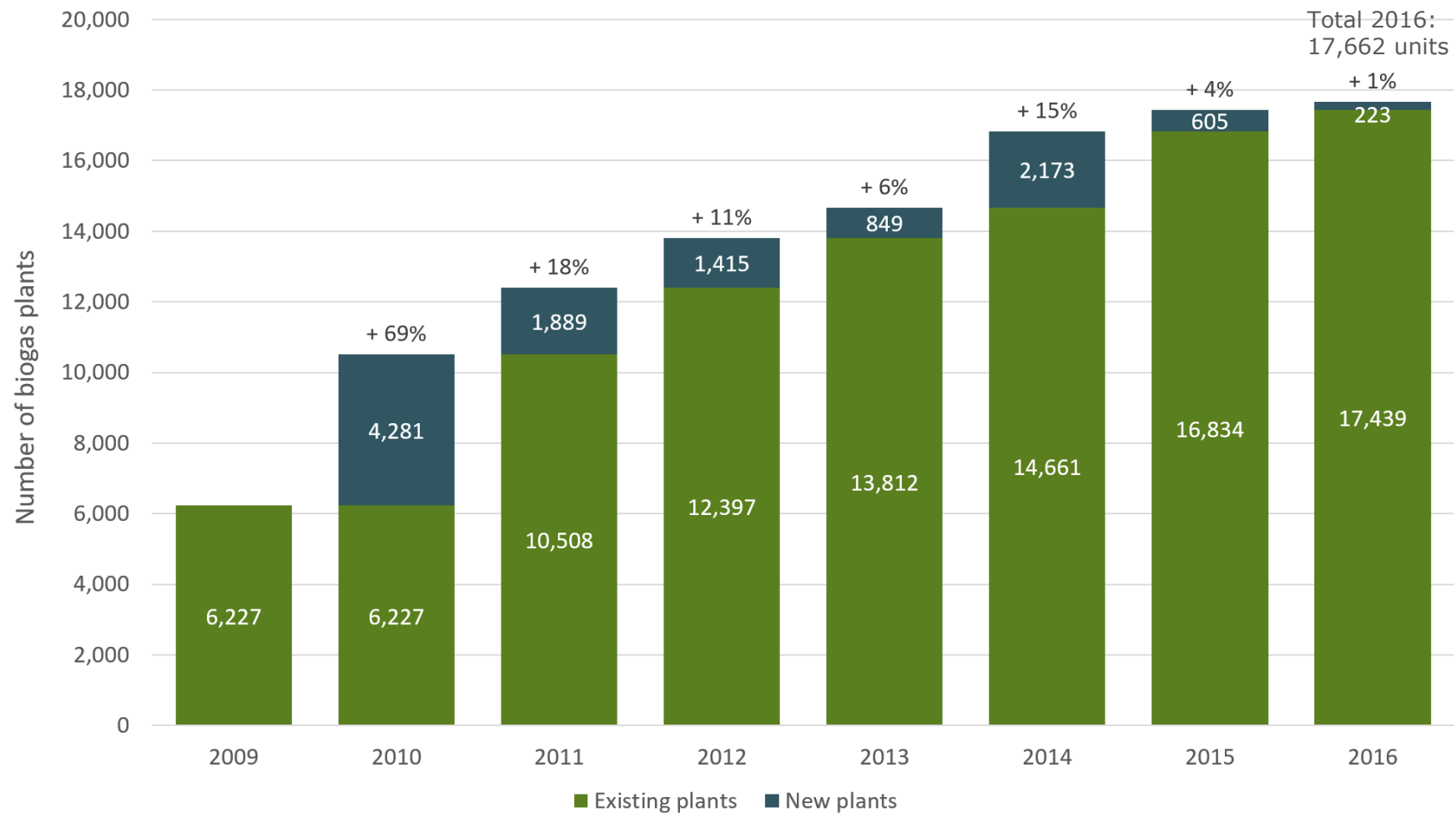


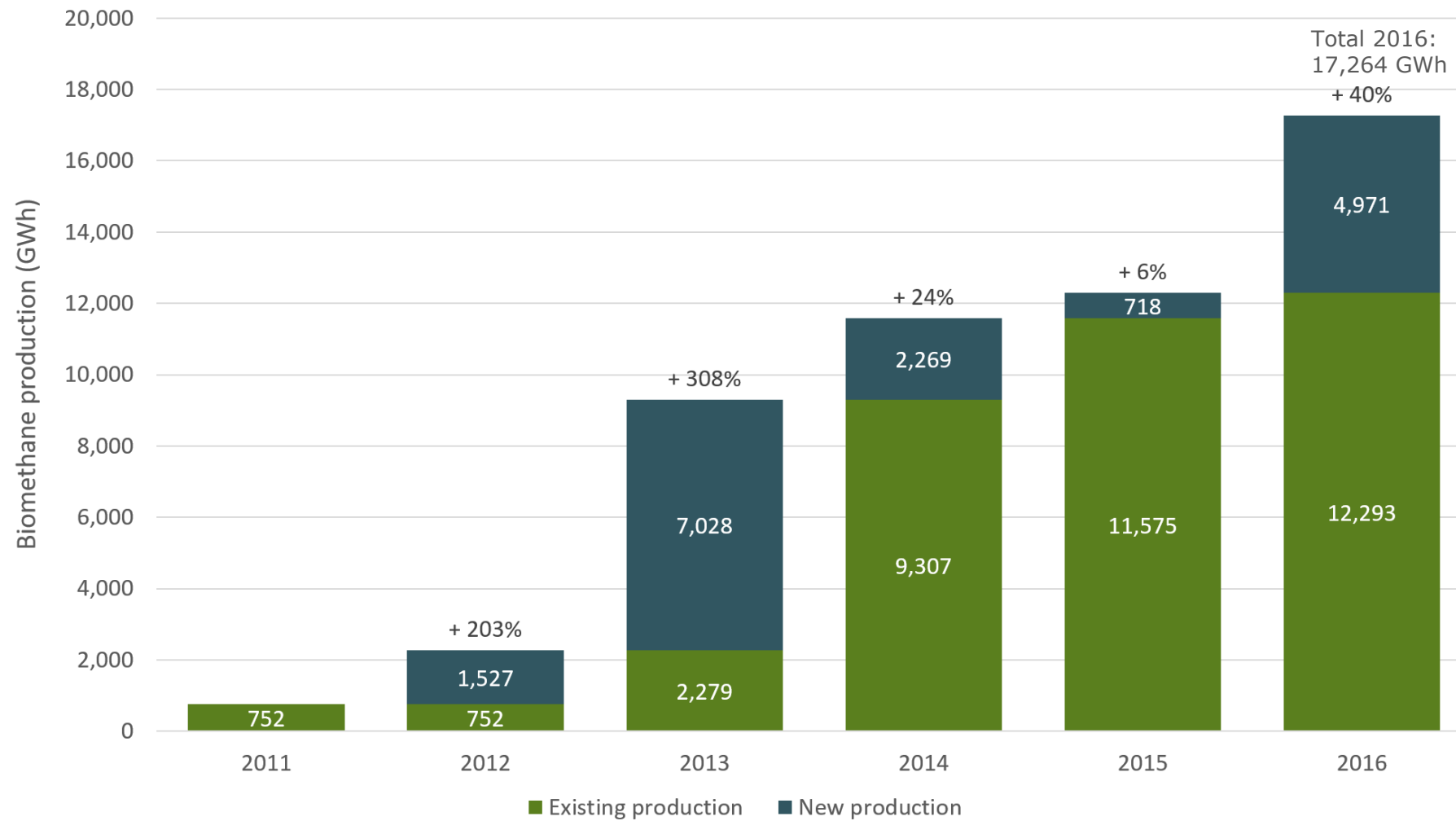
Photo: HAASE Energietechnik AG

# Evolution of the number of Biogas Plants Europe



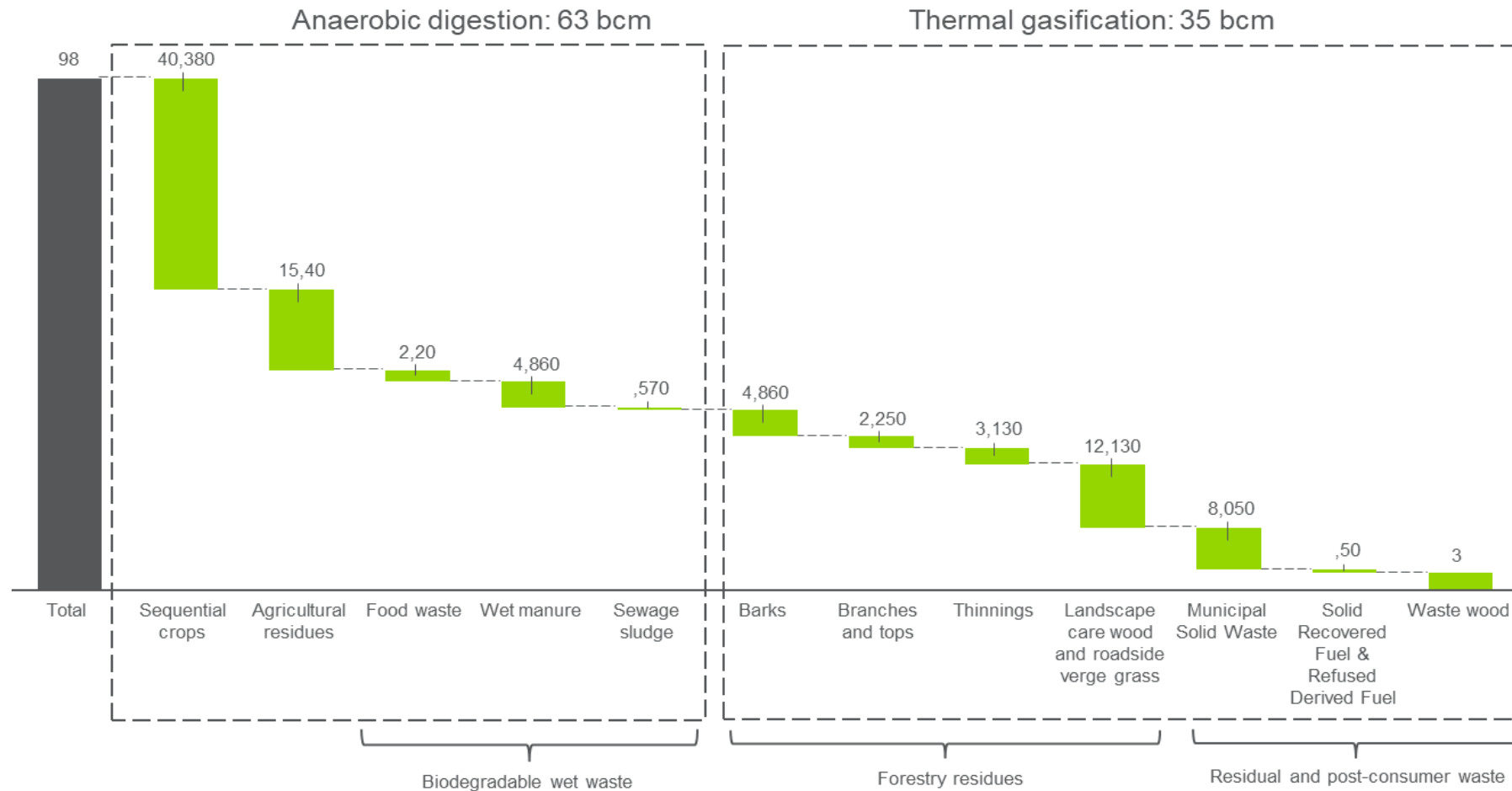
Source: EBA, 2018, Statistical Report of EBA

# Evolution of Biomethane Production in Europe



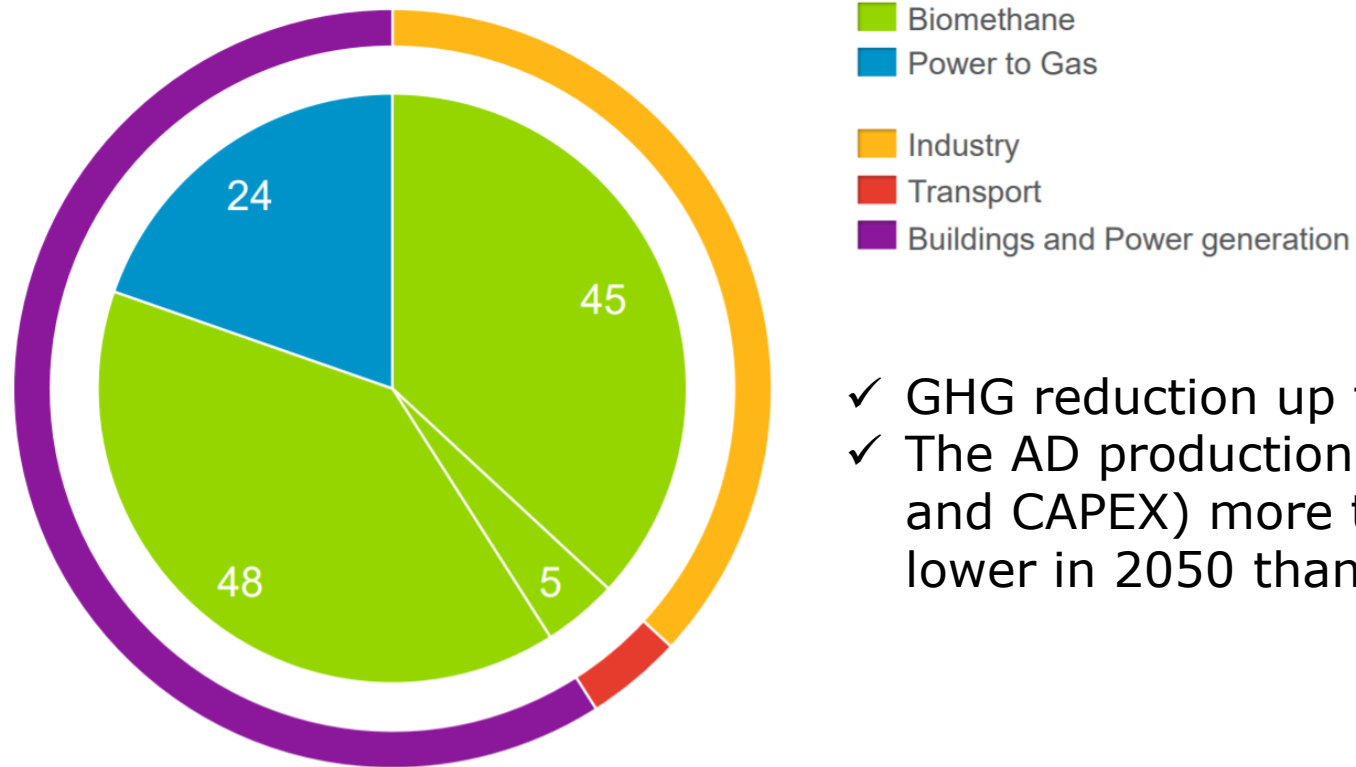
Source: EBA, 2018, Statistical Report of EBA

# There is a total of 98 bcm Biomethane potential by 2050 produced within the EU



Biomethane potential per conversion technology and feedstock type by 2050. Additional potential is possible from e.g. seaweed as feedstock, the use of roundwood and from imported biomethane

# There is a substantial potential for zero-carbon gas in the 2050 energy system



- ✓ GHG reduction up to 206%
- ✓ The AD production cost (OPEX and CAPEX) more than 35% lower in 2050 than in 2015

Allocation of renewable gas over various sectors in billion cubic metres of gas

Source: ECOFYS 2018



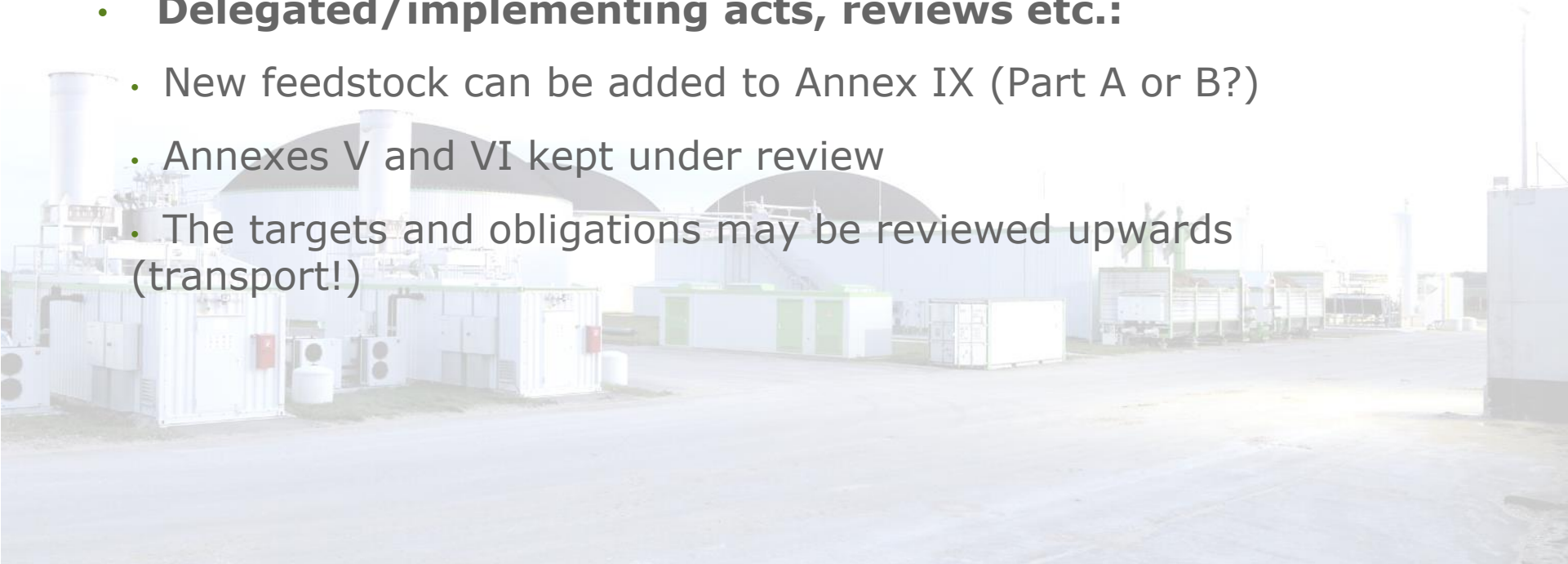
# EU policy recommendations

- **Clear, coherent and long-term policy framework – roadmap to 2050**
- **Sector integration combining gas and electricity should be at the focus – full electrification not realistic**
- **Conditions for an internal EU biomethane market – harmonise as much as possible**
- **More political support needed to green the gas grid**
- **Fully functional waste hierarchy**
- **AD integration in sustainable farming**



# RED II implementation

- **Low ambition in the transport sector (do not introduce double counting!) but opportunities for biomethane as a heating fuel**
- **Guarantees of Origin are key for the common biomethane market: how to combine with subsidies?**
- **Delegated/implementing acts, reviews etc.:**
  - New feedstock can be added to Annex IX (Part A or B?)
  - Annexes V and VI kept under review
  - The targets and obligations may be reviewed upwards (transport!)



# National Biogas and Biomethane Targets

- **France**
  - 90 TWh biogas by 2030
  - 1.7 TWh biomethane by 2018
  - 8 TWh biomethane by 2023
  - 60 TWh biomethane by 2028
  - Potential for reaching 100% renewable gas by 2050
- **Italy** 80 TWh biogas by 2030
- **Sweden**
  - 15 TWh biogas by 2030
  - Vision of fossil-free transportation sector by 2050
- **Finland** 15 TWh biogas by 2045
- **Denmark** Potential for becoming the first country reaching 100% green gas in the grid by 2035.

# Regions are driving biogas development

## Replication effort



Partner regions

Replicating regions



### BiogasAction partner

### Replicating partner

Exodoma (Latvia)

EAP (Bulgaria)

Swea (United Kingdom)

CKEA and Western Development Commission – WDC (Ireland)

ESS (Sweden)

Regional County of Central Finland (Finland)

CCS (The Netherlands)

SECB - Scientific Engineering Center Biomass (Ukraine)

AILE (France)

AC3A (France)

EIHP (Croatia)

Agriculture Institute of Slovenia (Slovenia)

AURA-EE (France)

Aegean Energy and Environment Agency (Greece)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691755.

# Thank you

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