

## **BIOGAS: READILY AVAILABLE, RENEWABLE, GRIDS-GREENING** GEG, 21.03.2024, Geneve

Giulia Cancian, EBA Secretary General

## EBA – representing the BIOGAS value chain



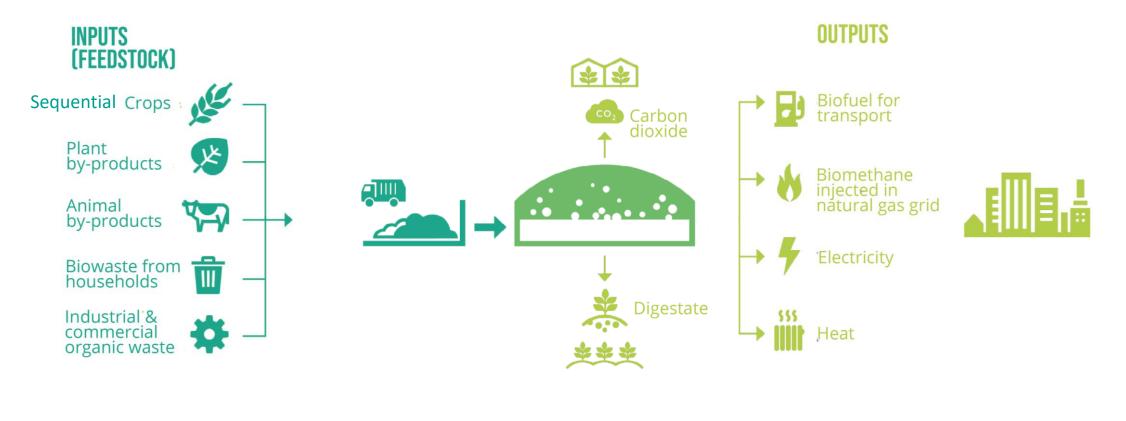
≤ 3002505035MEMBERSCOMPANIESNATIONAL ASSOCIATIONSCOUNTRIES

## I. BEYOND ENERGY

## BIOGAS TODAY

## 3. THE FUTURE

## **RE-THINKING OUR ECONOMIC MODEL: A CIRCULAR ECONOMY**



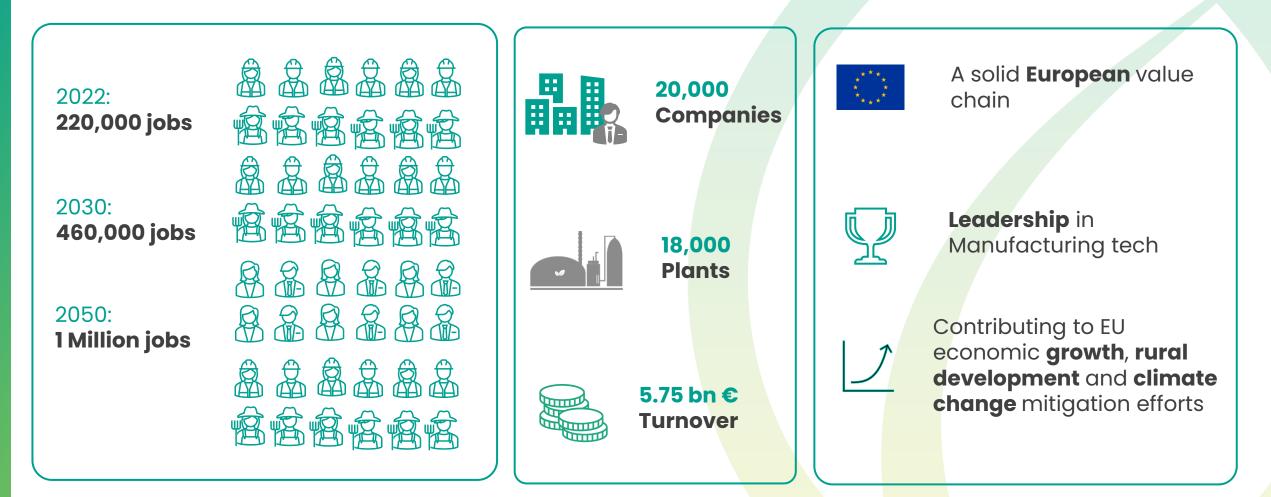
Input (i.e. food waste, agricultural waste) 60% Biomethane 40% Carbon Dioxide

Digestate + bio-CO2 as co-products Biogas upgrading Biomethane <99%

**Natural gas** 

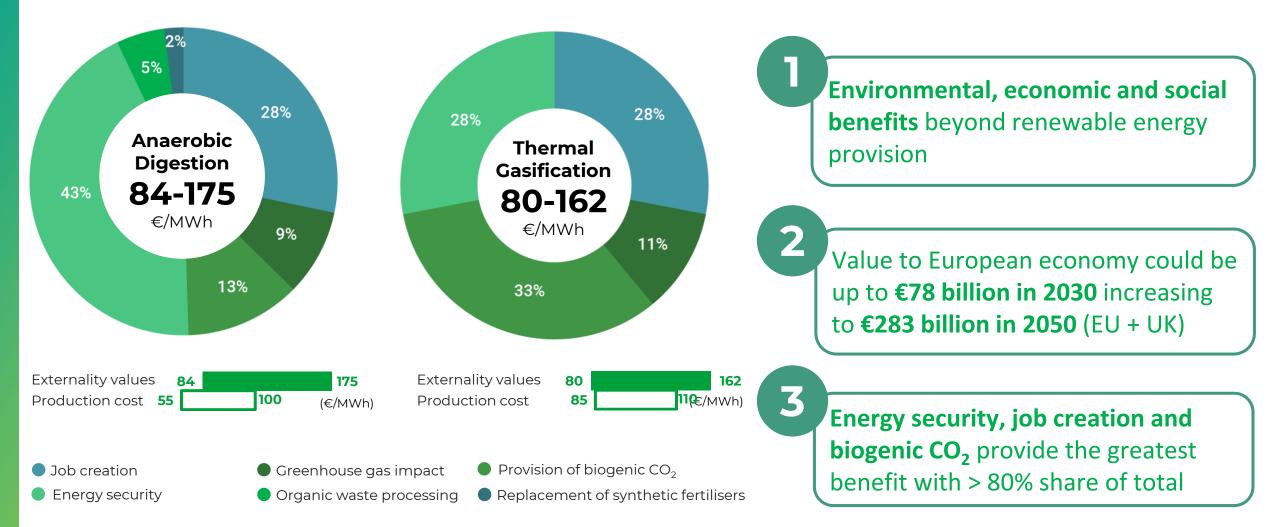


### **SOCIO-ECONOMIC IMPACT OF BIOGASES VALUE-CHAIN**





### **FACTORING-IN BIOMETHANE WHOLE- SYSTEM BENEFITS**





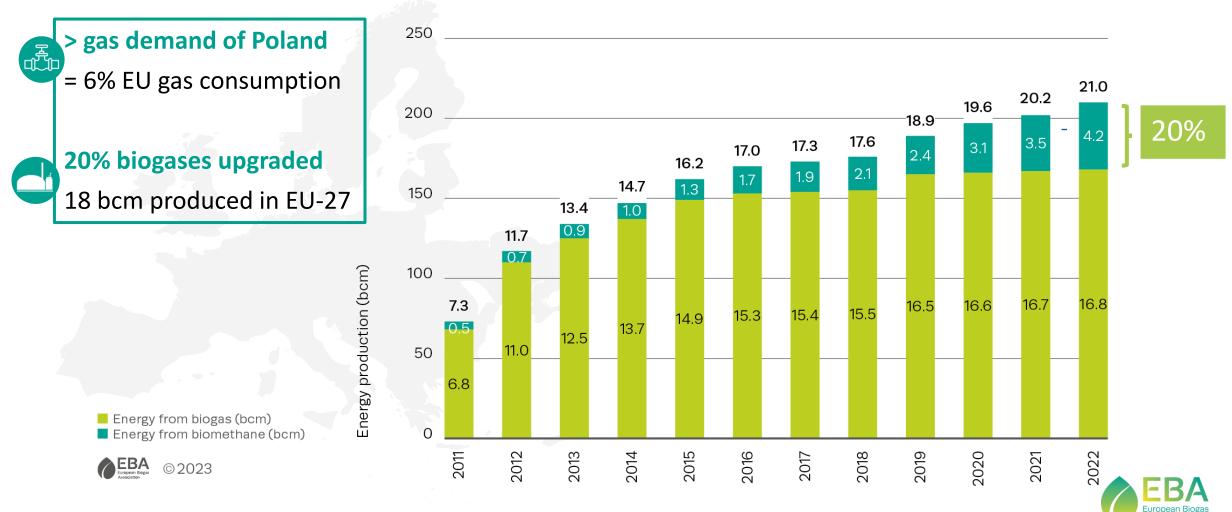
Source EBA report: Beyond Energy: monetizing biomethane's whole-system benefits (by Guidehouse)

## l. BEYOND ENERGY



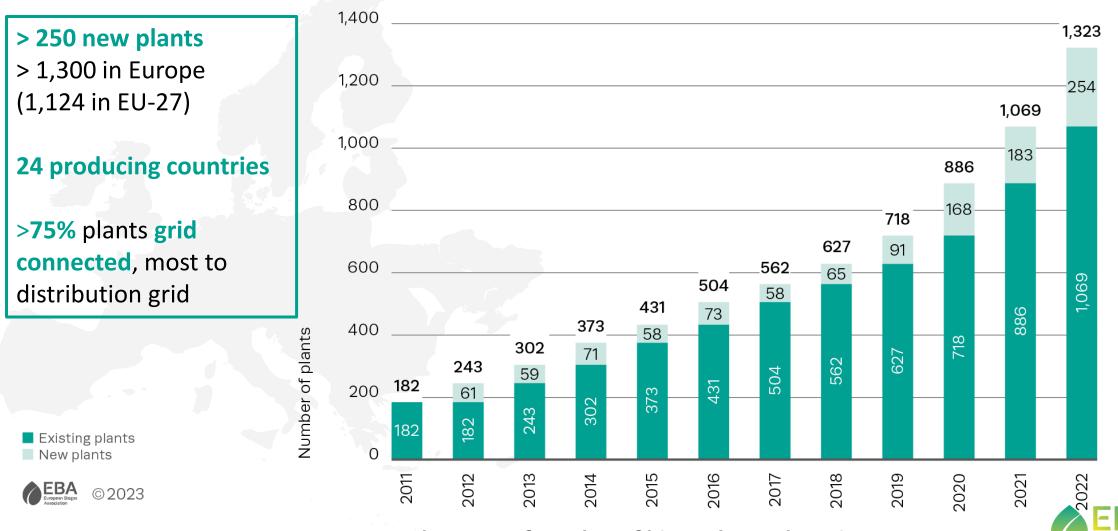
3. THE FUTURE

## **BIOGAS AND BIOMETHANE TODAY**



\* Combined biomethane and biogas production in Europe

### SECURING GREEN TRANSITION OF THE GAS SYSTEM AND SECURITY OF SUPPLY: BIOMETHANE IN 2022



**Development of number of biomethane plants in Europe** 

### **POLICY DRIVERS AT EU LEVEL**

### **EU RENEWABLE ENERGY**

TARGET 2030: 42.5 % of energy consumption INDICATIVE BIOMETHANE TARGET 2030: 35 bcm/year by 2030 RIGHT TO ACCESS THE GAS GRID Solutions to technical barriers Tariffs discounts



RENEWABLE ENERGY DIRECTIVE



**REPowerEU PLAN** 



HYDROGEN AND DECARBONISED GAS MKT PACKAGE



## l. BEYOND ENERGY

# BIOGAS TODAY

## **J**. **THE FUTURE**

## THE SECTOR HAS THE POTENTIAL TO DELIVER 35 BCM BY 2030

Feedstock potential (all countries)

#### Figure 1. Biomethane potential in 2030 per technology and country Anaerobic digestion Thermal gasification Biomethane potential (bcm/year) EU-27 38 bcm/vear 3 bcm/year 8 6 4 2 0 Glova Croatia Latviaconia Italy spain United Kingdom Netherlands Poland Romania CAPTUS UNembourg Switzenland France Sweden HUNDARY gad rath land certie and partial poly of the second Slovenia armany HOLMBY

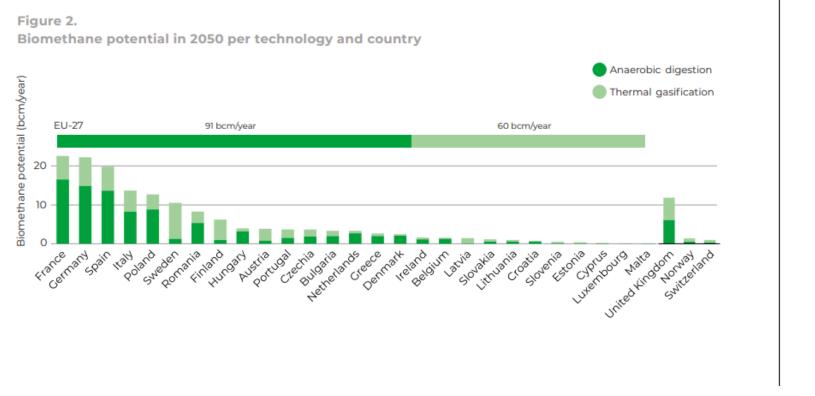
#### Total of all countries (%) 5 5 32 9 21 24 Animal manure Permanent grassland Agricultural residues Biowaste Sewage sludge Sequential crops Roadside verge grass Industrial wastewater

### 41.8 bcm in 2030 (38.1 bcm for EU-27)

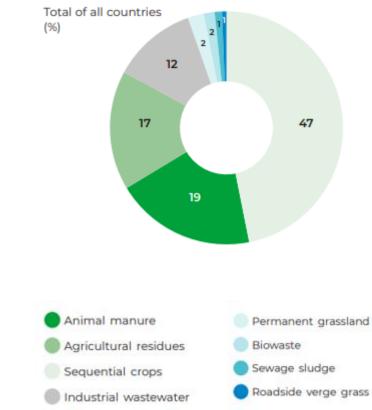
**2030 National Biomethane Potentials:** Gas for Climate 2022



## AND TO PROVIDE 151 bcm BY MIDCENTURY











## THANK YOU

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