

The voice of renewable gas in Europe

# REPowerEU: Joint European action for more affordable, secure and sustainable energy REGATRACE Target workshop, Brussel

Mieke Decorte decorte@europeanbiogas.eu Following the **invasion of Ukraine**, the case for a rapid clean energy transition has never been stronger and clearer.

### The EU imports 90% of its gas consumption

- With Russian providing around 45% of those imports
- In varying levels across Member States.

Russia also accounts for around **25% of oil imports** and **45% of coal imports**.

Questions and Answers on REPowerEU (europa.eu)



**<u>8 March 2022</u>**: The European Commission has proposed an outline of a plan to make Europe **independent from Russion fossil fuels well before 2030**, starting with gas, in light of Russia's invasion of Ukraine.

### **REPowerEU** will seek to

- Diversify gas supplies
- Speed up the roll-out of renewable gases → announced target of 35 bcm of biomethane
- Replace gas in heating and power generation

A more detailed plan is to be published in May.



### The 35 bcm target:

- Will replace 20% of natural gas imports from Russia.
- Equals **10% of current gas demand**
- Represents a growth of 28% each year until 2030.

Biomethane also helps to reduce exposure to food price volatility:

Synthetic fertilizers are currently expensive due to high gas prices
 Digestate replaces synthetic fertlisers
 EU is planning a separate communication on this topic



### **Europe produces today (2020):**

- 15 bcm of biogas
- 3 bcm of biomethane

### Upgrading biogas to biomethane can

thus highly contribute to this 35 bcm target.



**Figure 2.2:** Combined biomethane and biogas production in Europe (bcm)

- Energy from biogas (bcm)
- Energy from biomethar(bcm)



### **BIOMETHANE PRODUCTION IN EUROPE**

# **Biomethane growth rate** in 2020 was 25%.

#### An even bigger increase is expected in

2021, as a record number of newbiomethane plants started production in2020.





## **BIOMETHANE AND BIOGAS PRODUCTION**

This graphs shows the percentage of the gas consumption which could be covered with biomethane **if all biogas were upgraded**.

Both **Denmark** and **Sweden** are well on track to replace their natural gas consumption with biomethane.

Energinet reports **Denmark already** reaches 25% by October 2021.





## EU's PLAN TO CUT OUR DEPENDENCE ON RUSSIAN GAS



More rooftop solar panels, heat pumps and energy savings to reduce our dependence on fossil fuels, making our homes and buildings more energy efficient.



**Speeding up renewables permitting** to minimise the time for roll-out of renewable projects and grid infrastructure improvements.



Doubling the EU ambition for biomethane to produce 35 bcm per year by 2030, in particular from agricultural waste and residues.



**Decarbonising Industry** by accelerating the switch to electrification and renewable hydrogen and enhancing our low-carbon manufacturing capabilities.



#### Diversifing gas supplies

and working with international partners to move away from Russian gas, and investing in the necessary infrastructure.



A Hydrogen Accelerator to develop infrastructure, storage facilities and ports, and replace demand for Russian gas with additional 10 mt of imported renewable hydrogen from diverse sources and additional 5 mt of domestic renewable hydrogen.





large part of the 35 bcm target.

woody residues.



### BREAKDOWN OF 35 BCM BASED ON AVAILABLE BIOMASS

FEEDSTOCK	AMOUNT	EXPLANATION
Manure	16 bcm	<ul> <li>Solid manure: 50% of all the solid manure potential at farms with &gt; 100 LU.</li> <li>Liquid manure: 100% of all liquid manure at farms with &gt; 100 LU. Only manure that is collected from stables.</li> </ul>
Agriculture residues	10 bcm	From sustainable collected straw, 50% of ceral straw is considered to be used for biomethane. Remainder mostly for animal bedding.
Food waste	2 bcm	7% of the food waste in the EU today.
Industrial wastewater	3 bcm	Total potential for 2050 is 14 bcm. Assumed 20% of that potential could be achieved.
Sequential/do uble crops	4 bcm	Implemented today in Italay and tested in France. EU potential is estimated at 46 bcm (Ughent),
TOTAL	35 bcm	

Association

#### **Biomethane targets for each MS**

• Including a split between feedstock types

#### **Detail biomethane production costs**

- Differences in production costs **between countries**
- Differences between **feedstock types**

### **To be included in the detailed plan of the Commission planned for May.**





# **THANK YOU!**

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### Re-thinking our economy. Making the energy transition happen.

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