

# Scaling up biomethane on the pathway to a net zero future #VEOLIA

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# WHO IS VEOLIA?

A worldwide actor committed to ecological transformation

## Ecological transformation, our purpose

*“The ecological emergency is here and the time for transition has passed. At Veolia, we are acting every day for ecological transformation.”*

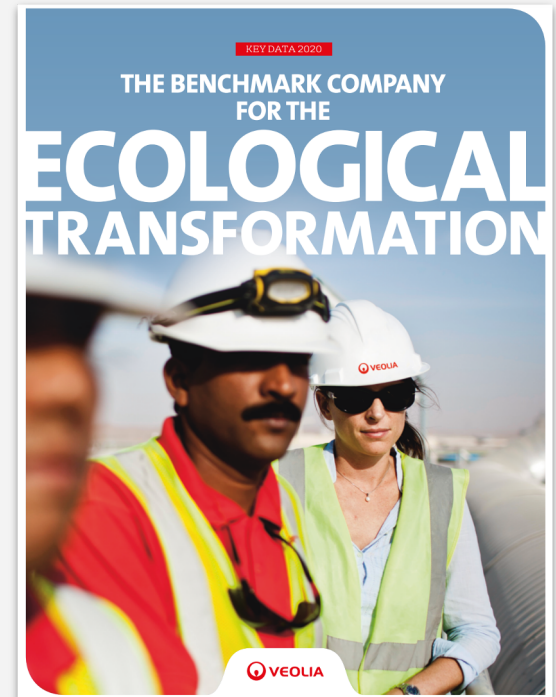
Delivering on the 5 continents, yearly:

- **95.000.000** inhabitants with **drinkable water**
- **wastewater** management services for **62.000.000 inh.**
- recovery of **47.000.000 tons of waste**
- **43.000 GWh of energy**
- ...

Always looking for Circular economy



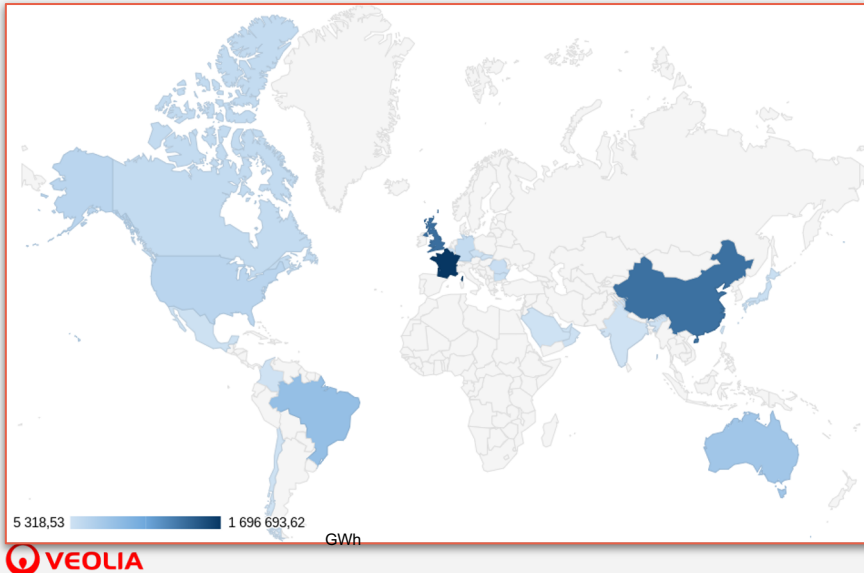
With the support of its **178.894 employees**



# WHAT IS BIOGAS FOR VEOLIA ?

A long and large history between veolia & biogas

With more than 40 years of experience, VEOLIA is now managing 6 000 GWh<sub>LCV/yr</sub> of biogas in 23 countries. Biogas converted into electricity, energy for heating processes and districts, and more recently **biomethane**.



Biogas produced in:

- Municipal WasteWater Treatment Plants,
- Industrial WasteWater Treatment plants,
- Biowaste Anaerobic Digestion plants,
- Solid waste landfills.

Veolia offering options for Designing, Building, O&M

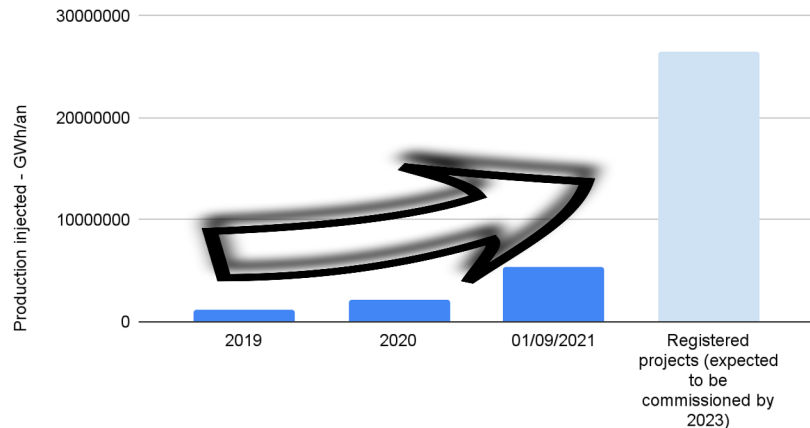
# HOW TO BOOST BIOMETHANE PRODUCTION?

Governmental actions / French case

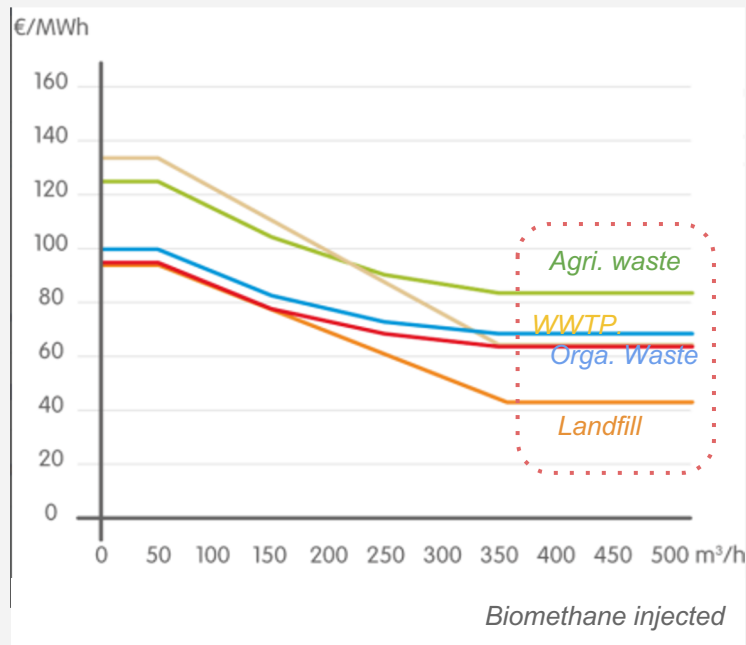
In France, a tremendous ramp up of the biomethane projects:

- 2021 vs. 2019 + 350% achieved
- Potentially +2000% by 2023!

French Biomethane Production injected - GWh/yr



Thanks to an adequate feed in tariff:



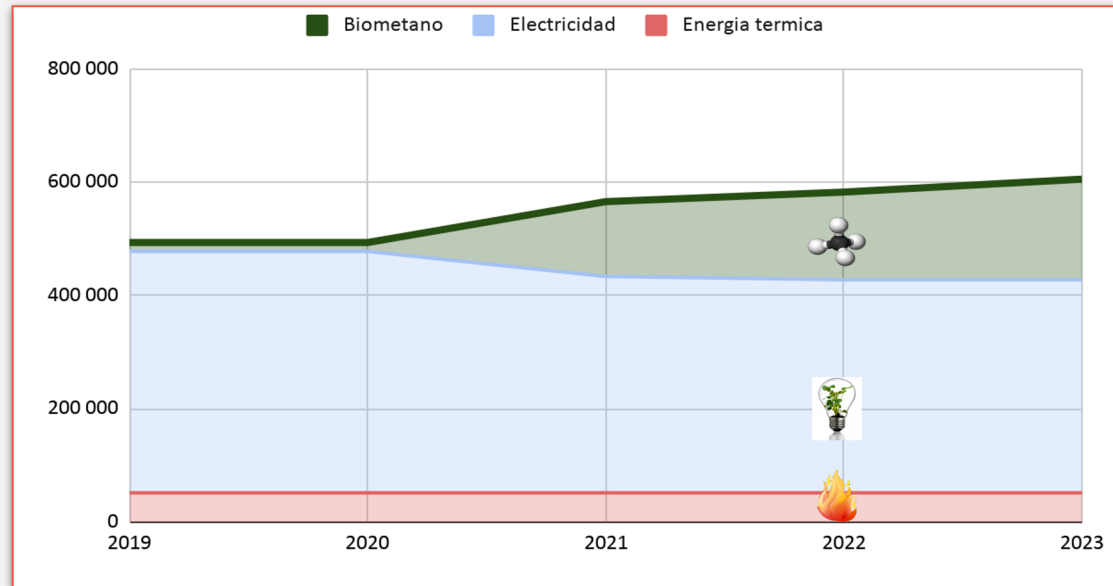


# HOW TO BOOST BIOMETHANE PRODUCTION?

Governmental actions / French case

Example: impact on Veolia French landfills

100 GWh of electricity from biogas will soon be converted into 200 GWh of biomethane



# HOW TO BOOST BIOMETHANE PRODUCTION?

## Private initiatives

Many **Customers**, Private and even Public entities willing to **decarbonize** their business,

Many **Energy Companies** willing to deliver **carbon neutral energies** and **secured, stable energy** sources... even in price...

**Gas Purchase Agreement**, similar to PPA for electricity, under development



Industrial WW



Bio-wastes:  
energy crops, plant and animals by-products, households

**BIOTHANE MemGas™ - A proven technology: 16 References installed on new or existing plants and producing in 2022 a total of 200 GWh/year**

# TO CONCLUDE... AND GO FURTHER !

Being convinced that biomethane is part of the pathway to Net Zero future...

First, are the **market conditions ready** for biomethane ?

Second, before developing a greenfield project, do we have **existing biogas sources** ?

Lastly, when developing a biomethane project, the **feedstock accessibility** is one of the most important keys.

- At Veolia we manage many organic waste streams, liquid, sludges, solids, ... for our Customers, and we understand how precious it is.

Veolia accompanies its Customers wherever it makes sense in terms of global sustainability to develop a biomethane project, while maintaining competitive advantage.