

## The first European demonstrator of smart grids for gas

Pontivy  
Communauté

Mauges  
Communauté

Pays de  
Pouzauges

In western France (Brittany and Pays de la Loire), West Grid Synergy aims to design and experiment smart grid solutions to maximize biomethane injection into the transmission and distribution systems.

Project partners are committed to the energy transition with Pontivy, Les Mauges, and Pouzauges territories

## What is biomethane ?

A **renewable** gas produced **locally** out of agricultural, industrial and household waste. The biomethane has similar technical properties as natural gas used in the industrial, residential and tertiary sectors.

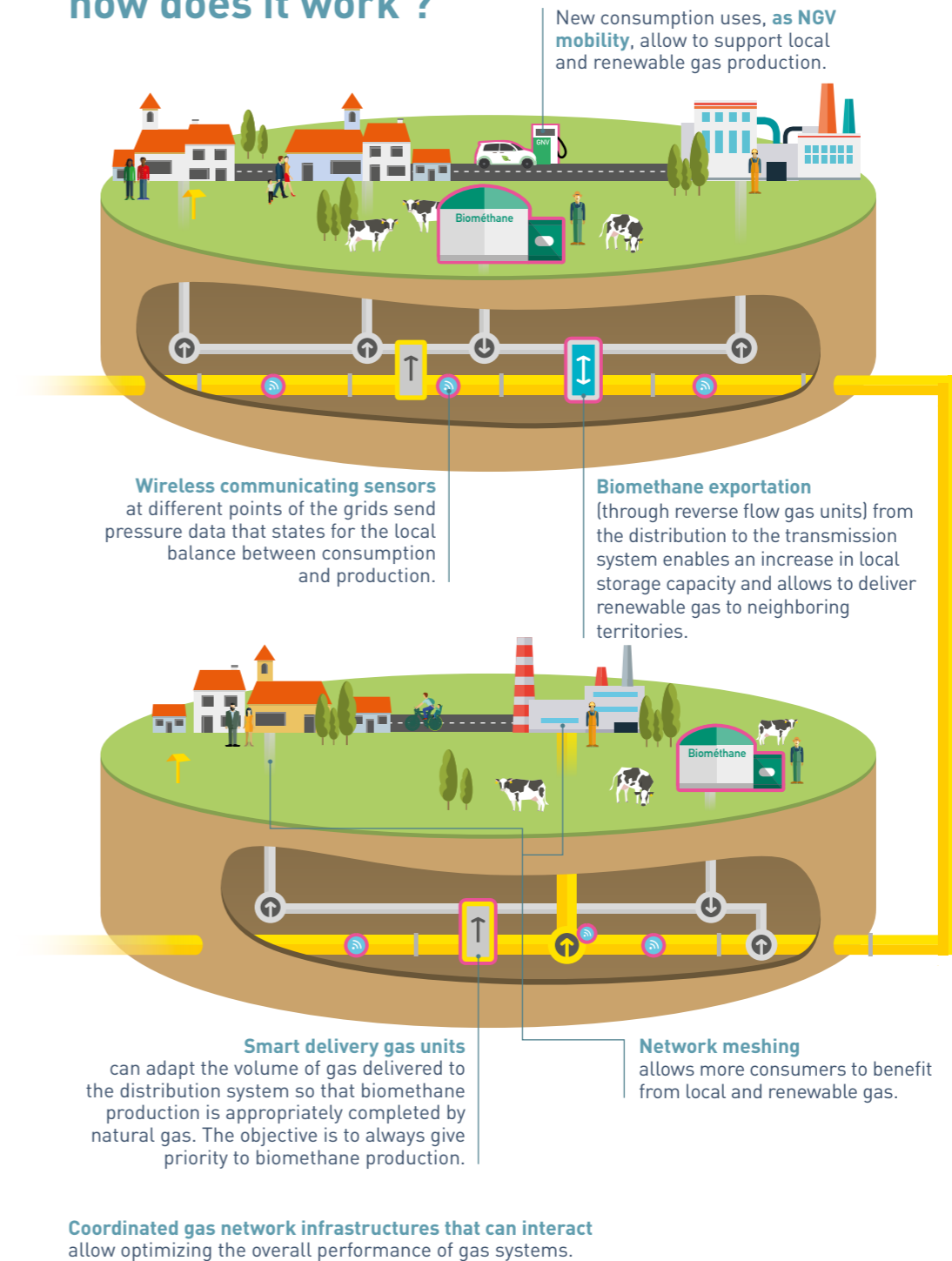
## Why West Grid Synergy ?

**Greenhouse gas reduction, local waste-to-energy production, energy self-sufficiency, additional income... Renewable gas is a strong lever for the energy transition.**

However, **the rise in biomethane injections does have an impact on the gas grid.** Indeed, the increasing number of injection unit projects can locally overtake injection capacity in the distribution system, in particular during summer when local gas consumption decreases significantly.

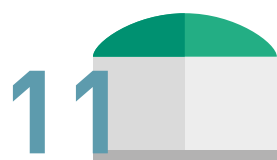
To allow more consumers to benefit from the increase in renewable and local gas production, **the transmission and distribution systems need to be adapted thanks to innovative and digital solutions.**

## Smart grids for gas: how does it work ?

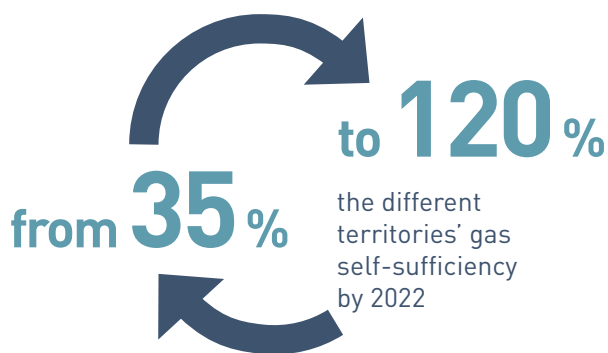


○ Solutions experimented as part of the West Grid Synergy demonstrator to turn grids into smart grids.

**Gas grid operators allow consumers to benefit from renewable and local energy by making biomethane injection into the grid a reality.**



biomethane injection units into the gas networks by 2022



the different territories' gas self-sufficiency by 2022



residential and tertiary consumers

&



industrial consumers

will benefit from local and renewable gas by 2022



feed the grid by 2022, corresponding to up to 19 000 households' heating consumption

Key figures of the West Grid Synergy territories.



**West Grid Synergy is labeled by SMILE, an organization that aims to accompany and support the deployment of important regional industrial projects connected to smart grids in western France (Brittany and Pays de la Loire).**