



# Nedgia, key in the energy transition

Distributing green gas, to power  
a sustainable future

# Largest energy distributor in Spain

We supply energy to more than 15 million people



**182 TWh/y\***  
supplied



**5,5 million**  
Supply points



**1.222** municipalities



**90.000** jobs  
created



**59.420** km network

➤ Nedgia distributes energy in the form of molecules with an **excellent service** standard and is **best-in-class** in efficiency

...

➤ We are present in **11 autonomous communities**, representing **70% of the national market**

...

➤ Our distribution network is **essential for the flexibility** of the energy system and already **supplies green gas** throughout the country, safely and efficiently

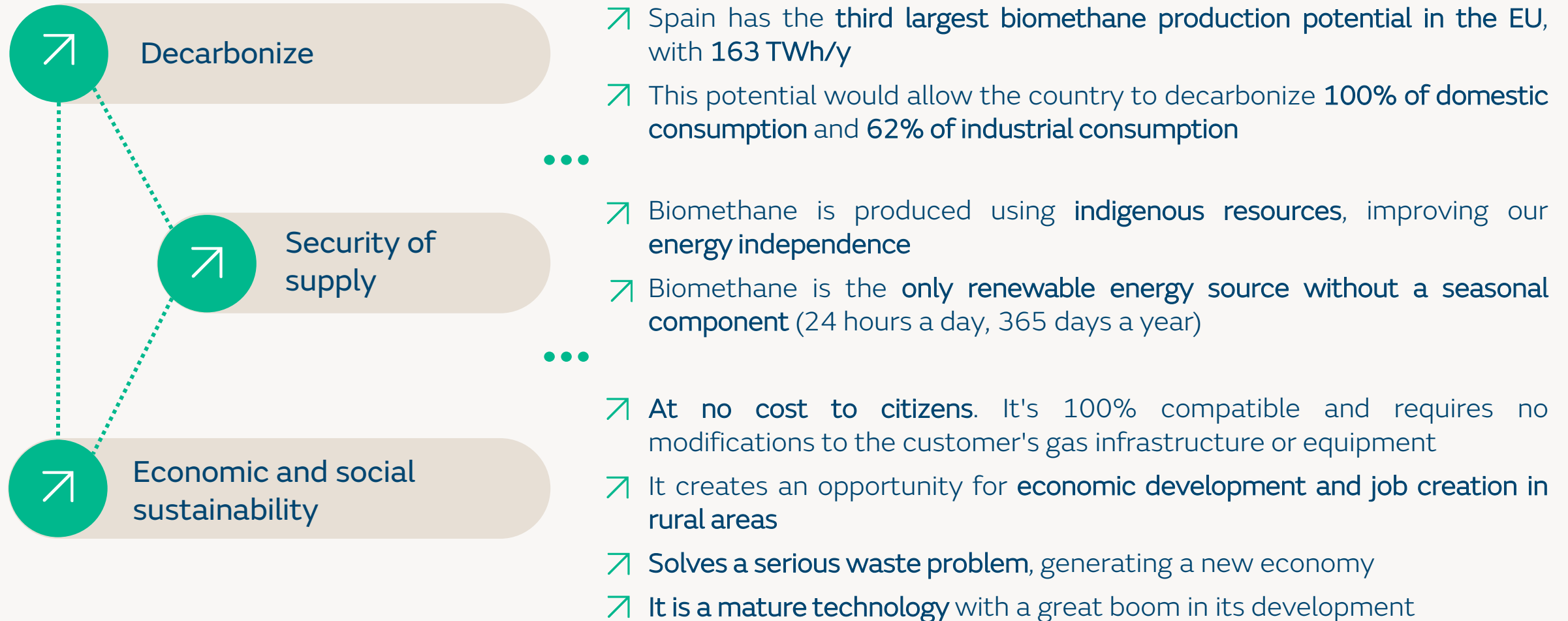
...

➤ Distributing energy in the form of molecules is the **most economical option**. Distributing the same amount of energy in the form of molecules is six times more economical than in the form of electrons

...

# Green gas: a true “national opportunity”

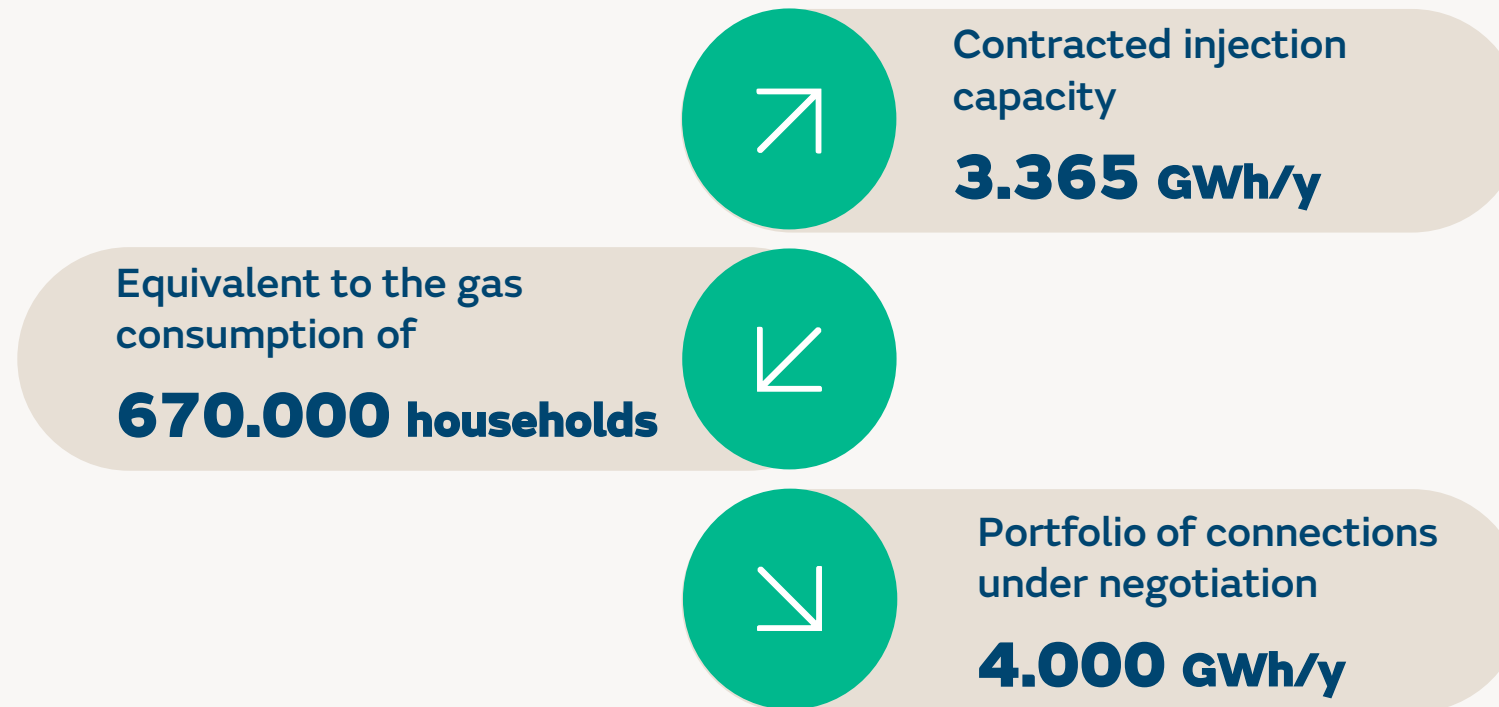
Green gas is the energy that best resolves the energy trilemma



# Nedgia is the leader in injecting green gas into the energy system

Our network contains 80% of Spain's green gas potential

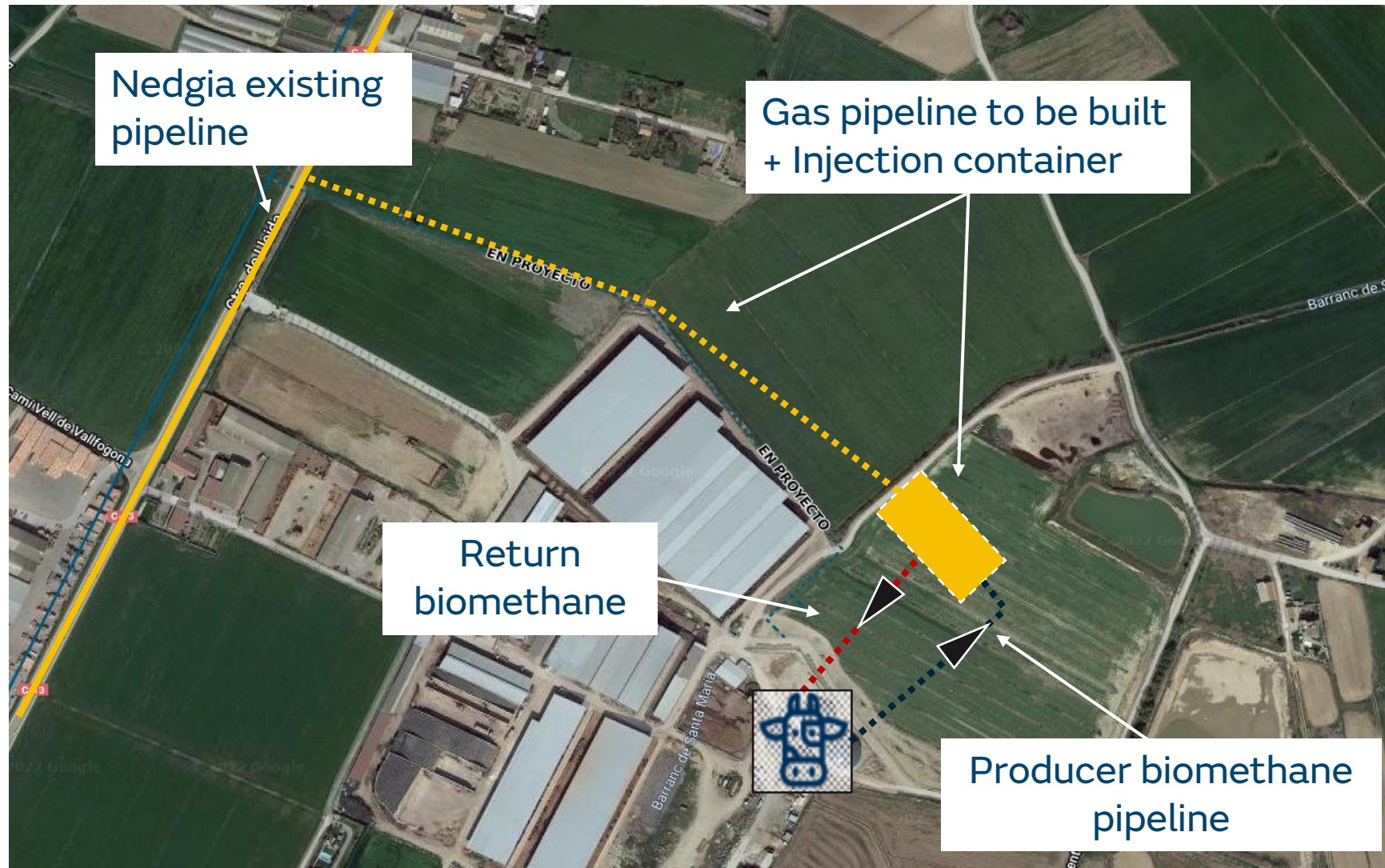
- We bring renewable energy to homes and industries by leveraging existing infrastructure
- Promoters of the “Gas Verde, Sí” platform








Data as of June 2025

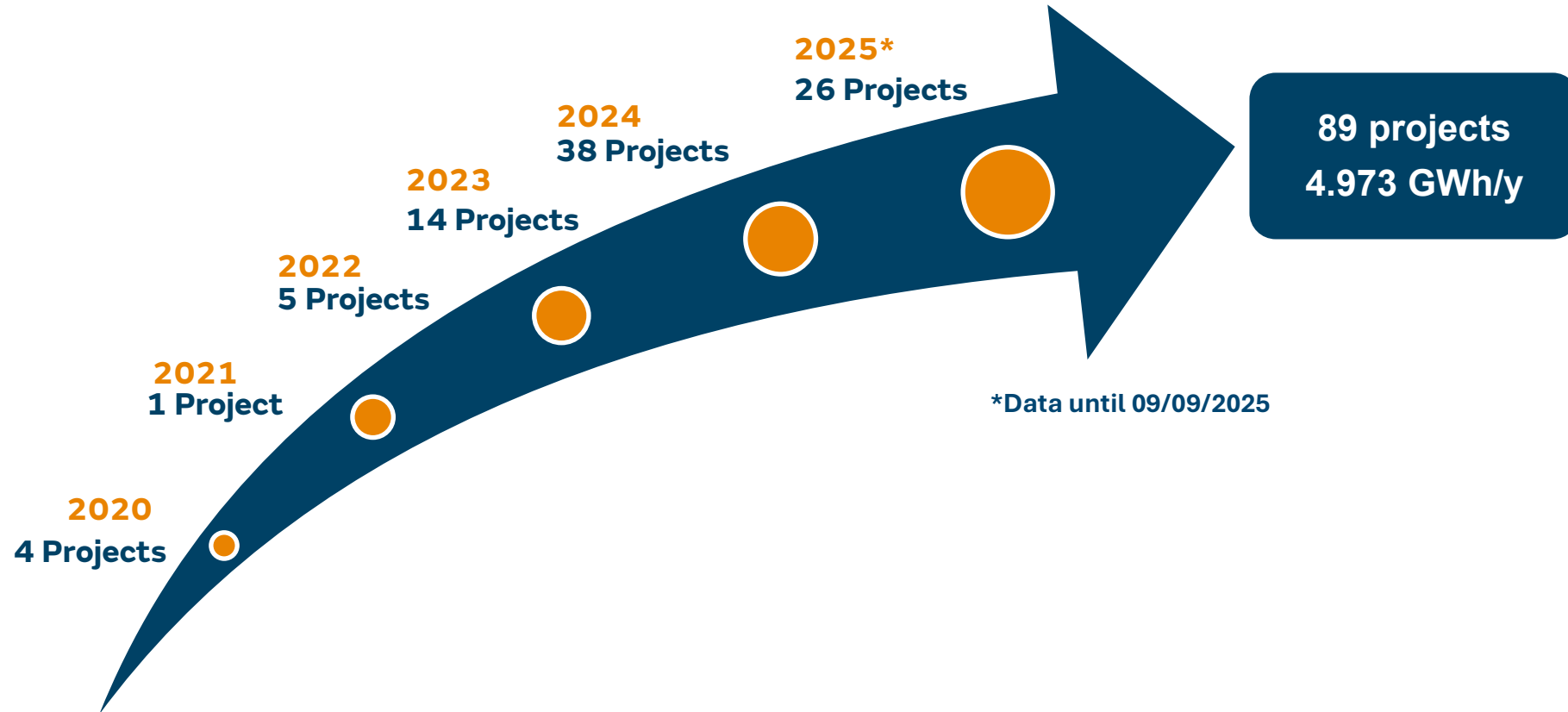
Nedgia is promoting the injection of green gas into the Spanish energy system through its grid, which is already prepared to transform the energy model and activate the country's renewable potential

## Injection to the gas grid: DSO scope of works



-  Existing Nedgia grid
-  Injection container  
(Nedgia's ownership)
-  New pipeline to be built by  
Nedgia
-  Producer biomethane  
pipeline
-  Producer return  
biomethane  
pipeline

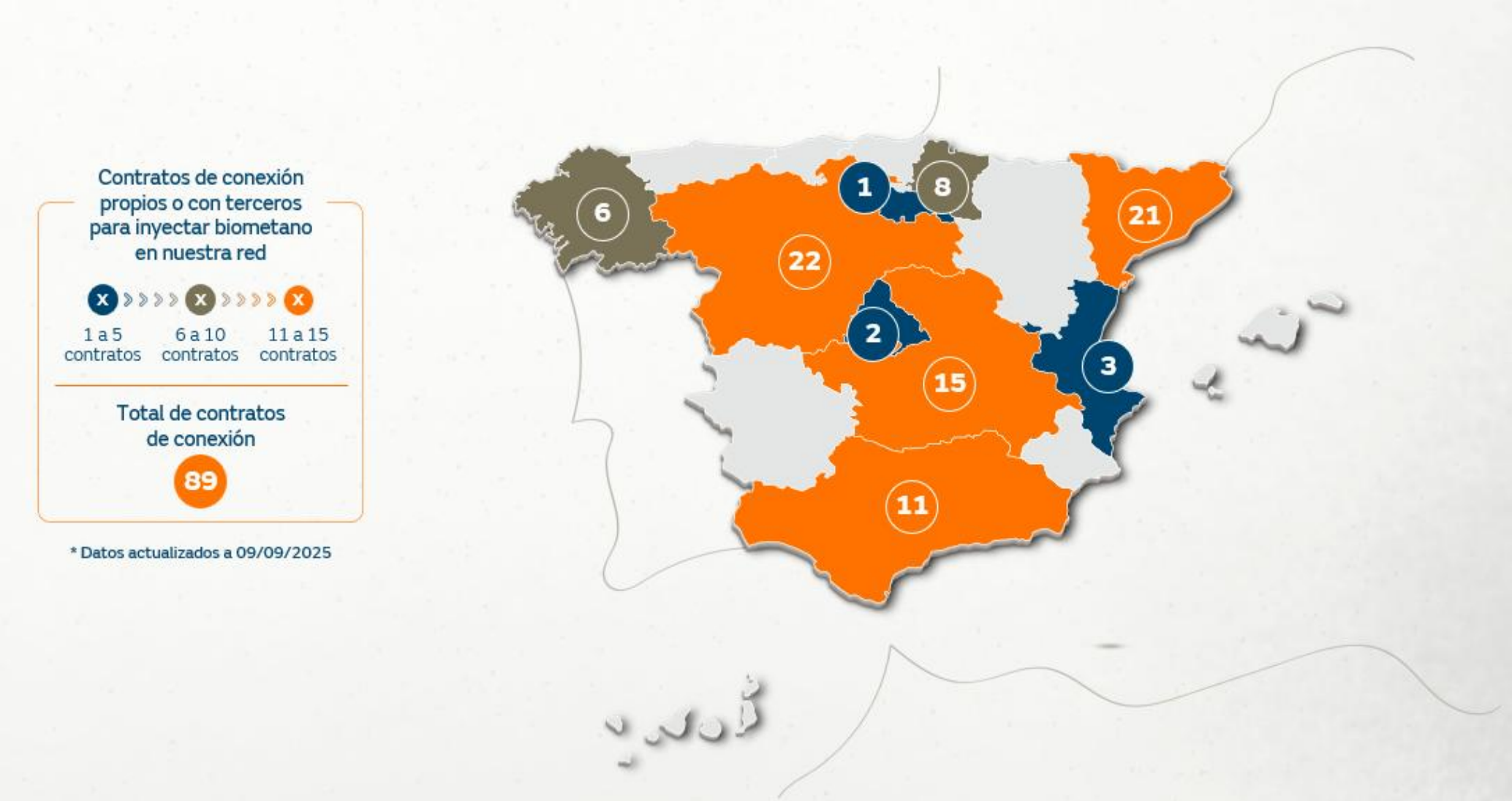
# Injection to the gas grid projects (Nedgia)



*The signed contracts have an injection capacity equivalent to the gas consumption of more than 990,000 homes*



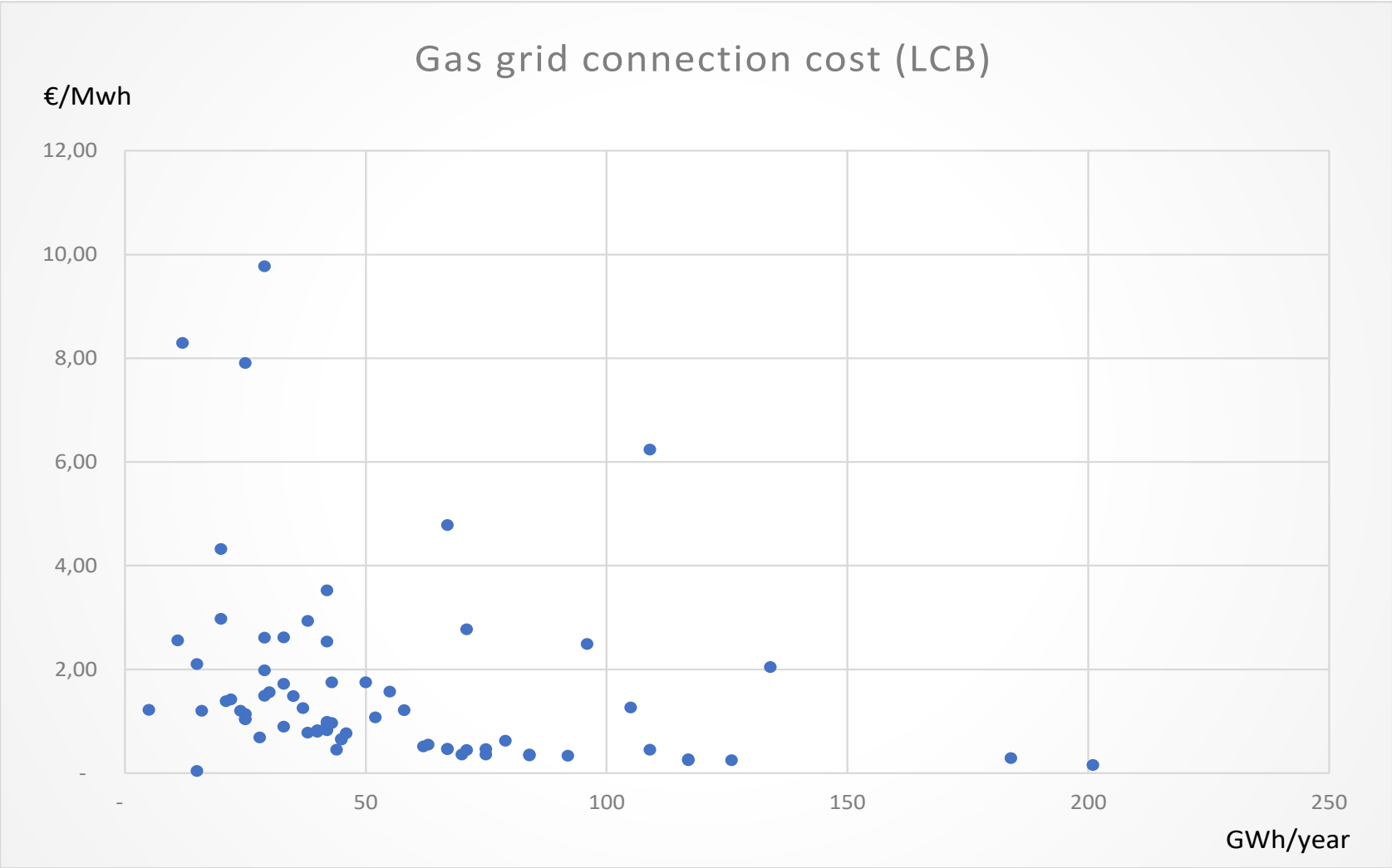
# Injection to the gas grid projects (Nedgia)



# Injection to the gas grid projects (Nedgia).

## Economic impact

**Cost of infrastructure (10-year period) in €/MWh of biomethane produced**



**Plant production capacity (GWh/year)**



# Centralized injection point projects (Nedgia)



## 3 projects (1 in operation)

### DSO scope of works:

- New pipeline (very close to the existing grid)
- Injection container

### Plant owner scope of works:

- Biomethane compression at plant site
- Tub trailer transportation
- Biomethane decompression at injection container site

## Type 1 projects

### PROJECT DESCRIPTION

- One or two biogas plants with a capacity of 600-1500 Nm<sup>3</sup>h, located at >15 km away from the gas grid

## Type 2 projects

### PROJECT DESCRIPTION

- Several small biogas plants with a capacity of 200-400 Nm<sup>3</sup>h each one. All of them located at max. 20 km away from the gas grid.

**Levelized gas infrastructure cost: 6-14 €/MWh\***

#### Scenarios analyzed:

- Distance between 15-50 km
- Plant capacity between 40-160 GWh/year

# Project Cycle0 (FNX) – Spain (in operation)

## PROJECT DESCRIPTION

- 4 biogas plants with a capacity of 250 Nm<sup>3</sup>h each one. All of them located at a distance of 6-20 km away from the gas grid.
- Each plant can't assume the gas infrastructure cost to build the pipeline connection. A unique injection point is proposed to be shared.

## Injection location:

- Input pressure: 250 Bar
- Injection pressure: 17 Bar
- Max. Injection Flow: 750 Nm<sup>3</sup>h
- Distance to the gas grid: 30 meters
- Decompression module: First from 250 bar to 60 Bar, second from 60 bar to 18 bar.
- Gas quality analyzer measures on a continuously basis.

## Transportation:

- Transport by tube trailers.
- Charge capacity of each tube trailers: 4.000 Kg BioCH<sub>4</sub> (250 Bar), 60 MWh
- Discharge time at injection point 8 hours

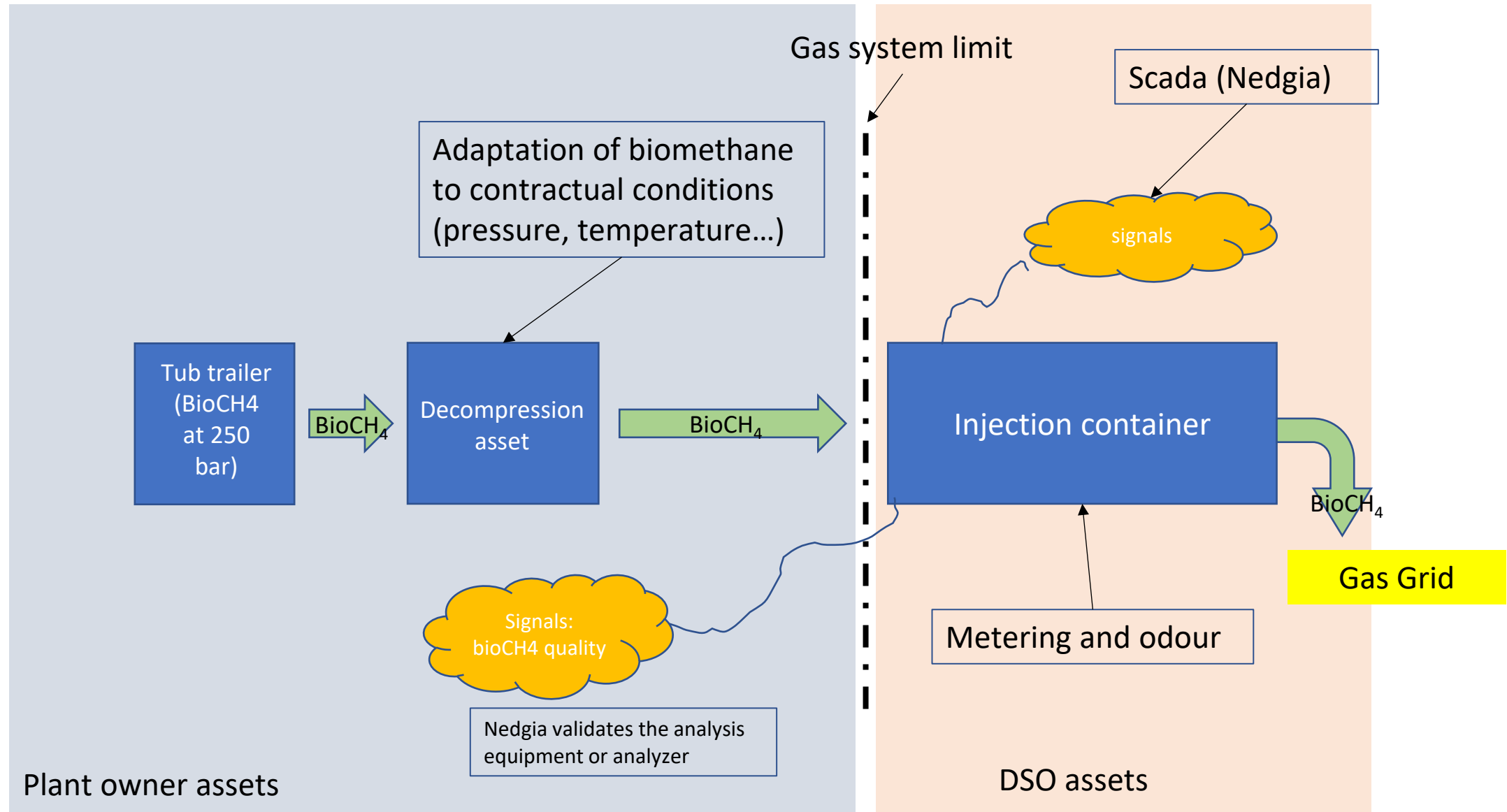
## ADVANTAGES:

- Makes economically profitable these type of projects
- Shared injection infrastructure cost

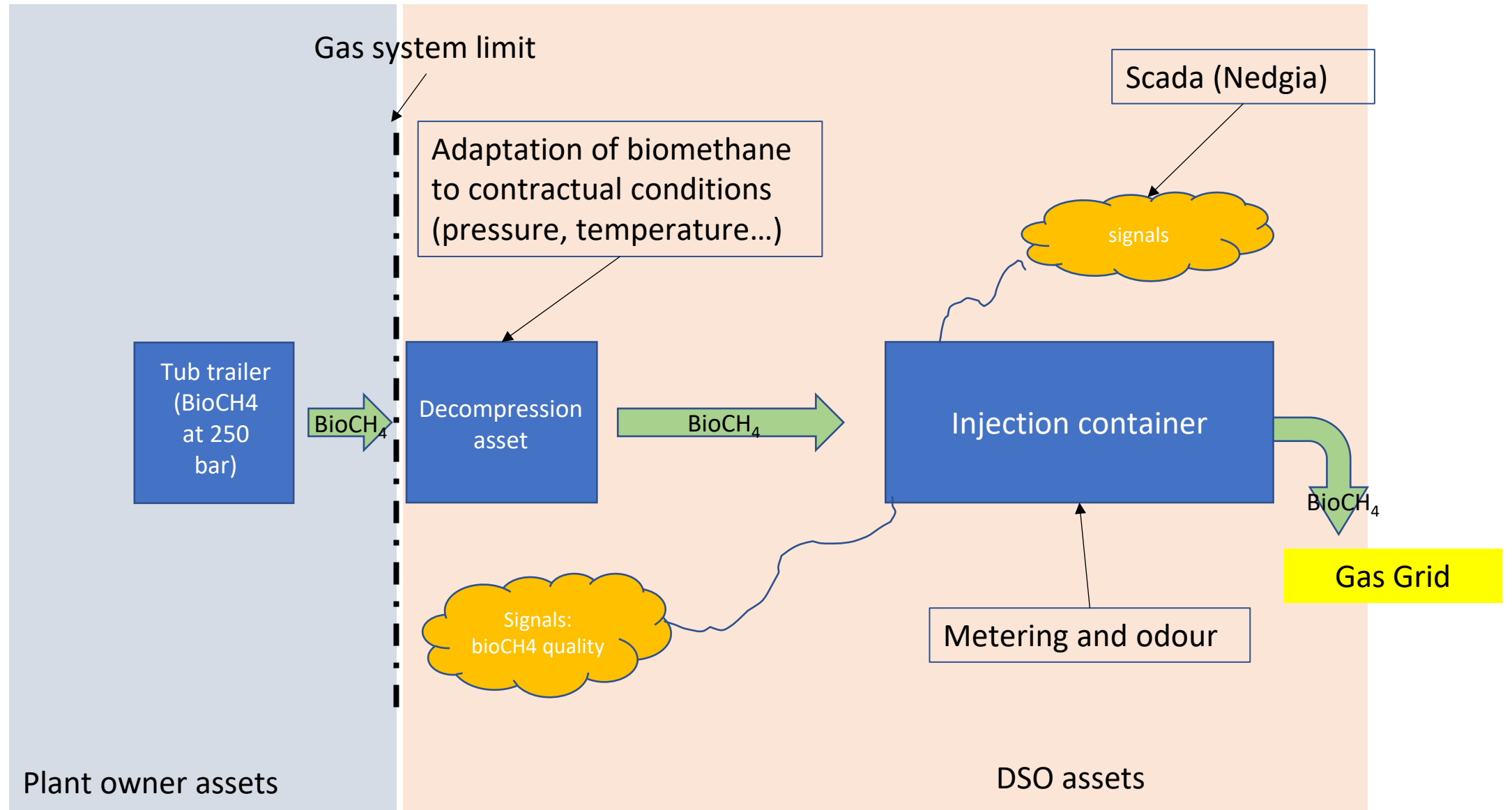
## DISADVANTAGES:

- Compressor installation is needed. Operational risk and cost.
- Trucks and transportation cost
- Decompression module is needed. Cost.

# Centralized injection points : Current asset ownership



# Centralized injection points : Proposed asset ownership (under analysis)















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Thank you!