

# Challenges and Prospects for the Production and Transport of Biomethane

BIOMETHAVERSE




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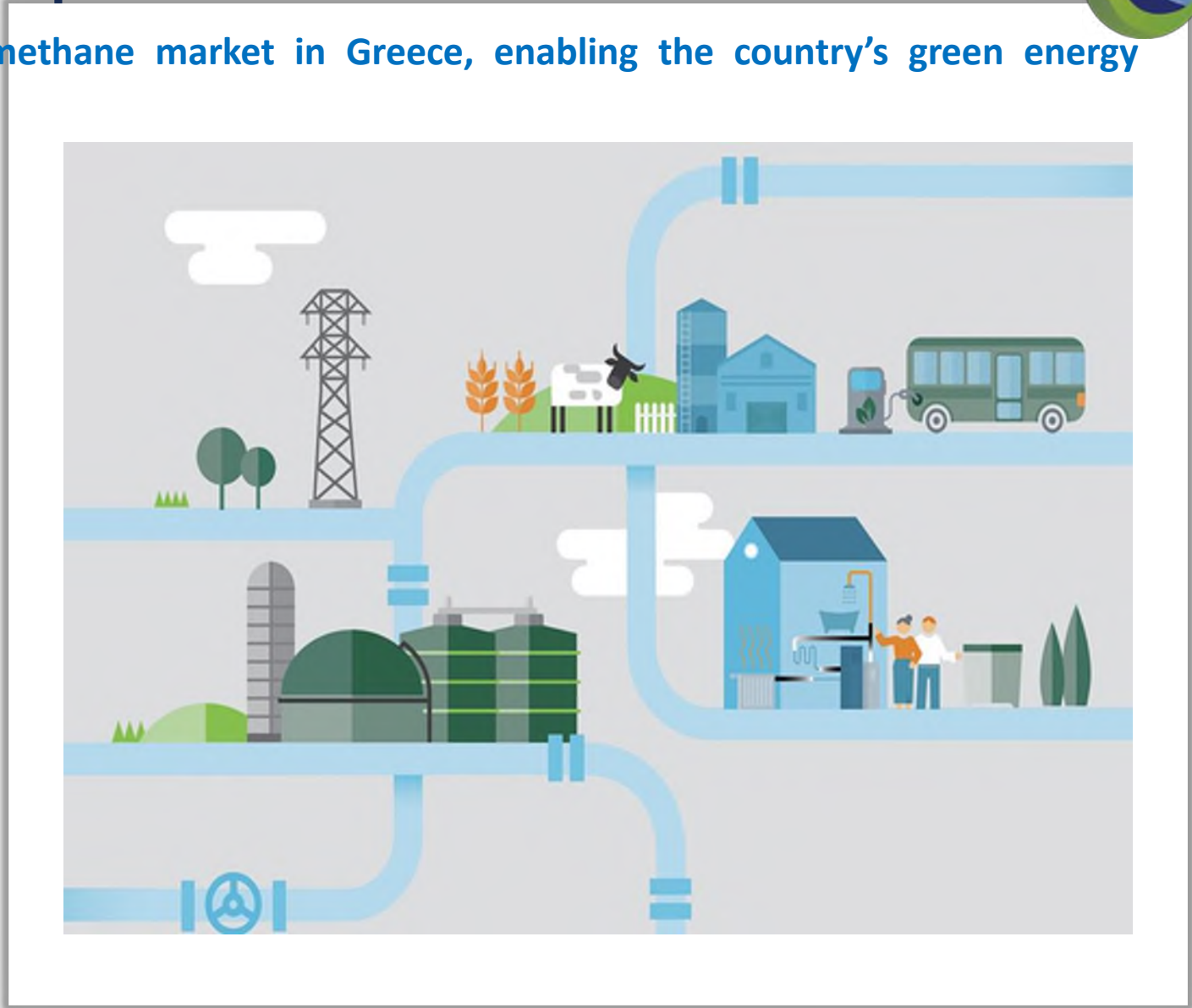
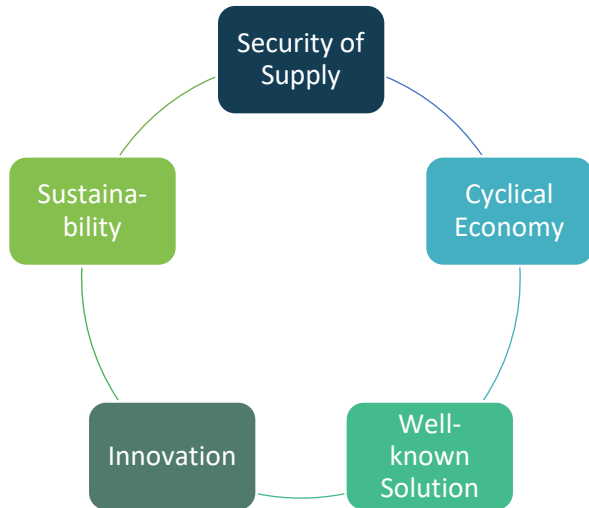
PMO Biomethane Pilot Project, Senior Manager **desfa**

# Time is right to catch up with European Practice

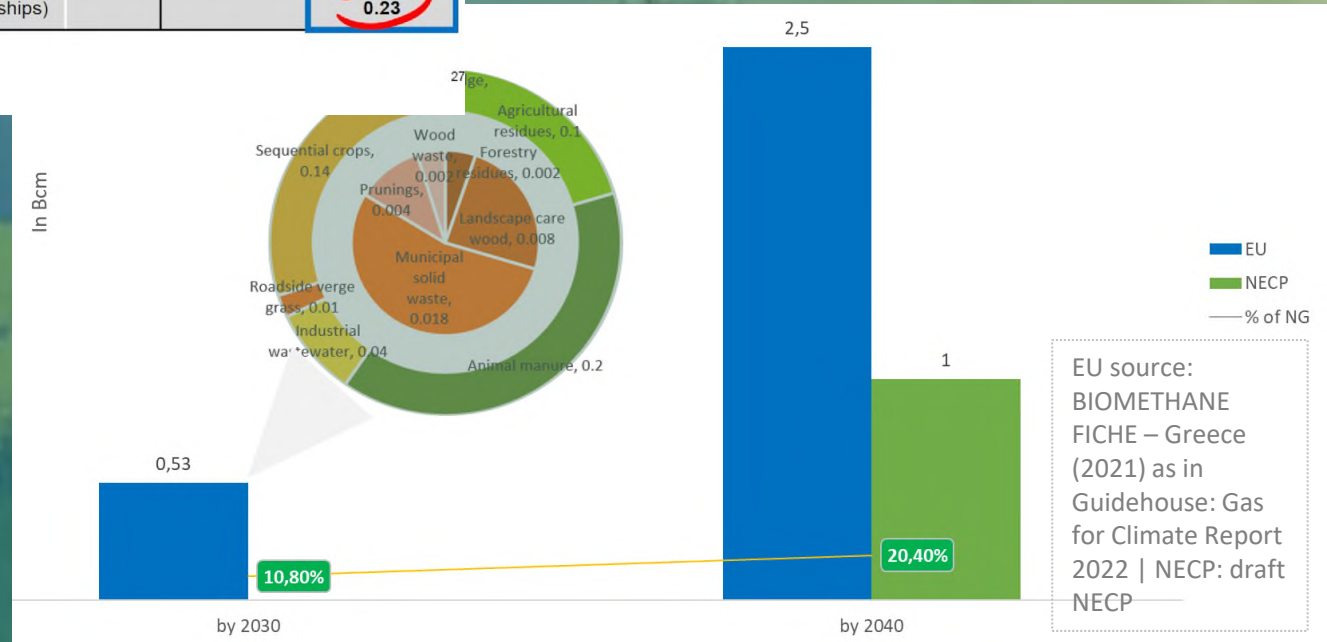
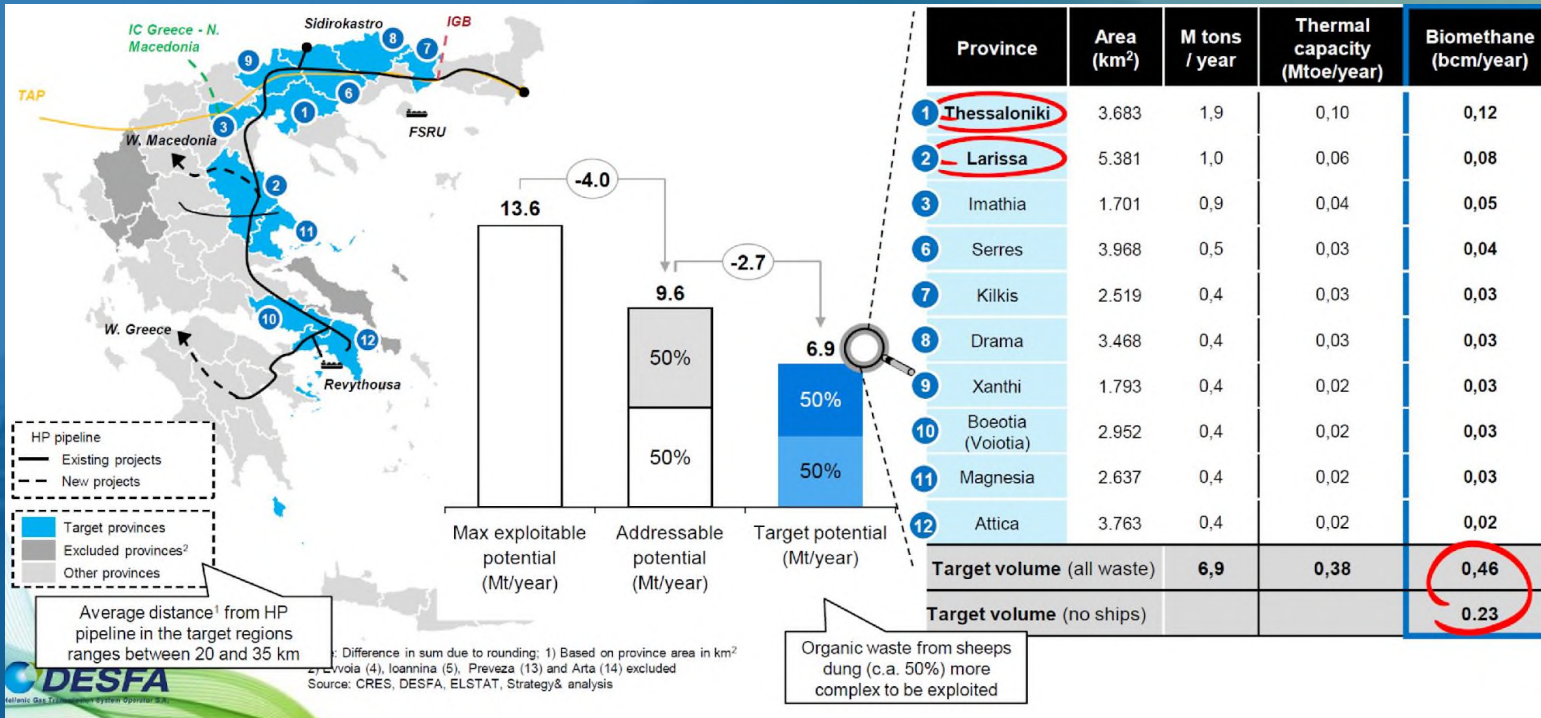
Desfa believes in the development of the Biomethane market in Greece, enabling the country's green energy transition

## Why Biomethane

-  Biomethane is a pillar of RePowerEU
-  Already an EU practice (Italy, Germany, Denmark etc)
-  Epitome of cyclical economy and sustainability



# Biomethane Market Potential in Greece





# Desfa's is the catalyst for the transportation of Biomethane

## Suitable Network

- Desfa's Transmission Network extends to areas of Northern and Central Greece with relatively high agricultural potential that is already used for biogas production and in the future biomethane.
- Part of the units of these areas can be upgraded and then connected to Desfa's network. New units can be placed based on proximity.
- The connection to the transport network offers the advantage that the injected Biomethane can be consumed at any point domestically, but also internationally via the interconnected system.



## Suitable Connection

- In the rest of Greece with significant biomethane potential but without a network transport (Western Greece as of now, Peloponnese, Islands), the penetration of Biomethane can be supplied:
  - by road transport in compressed (CNG) or
  - liquefied (LNG) status (virtual pipelines).

## Suitable Specs

- Desfa already submitted to the Ministry its proposal for updated Gas Specifications that encompass Biomethane

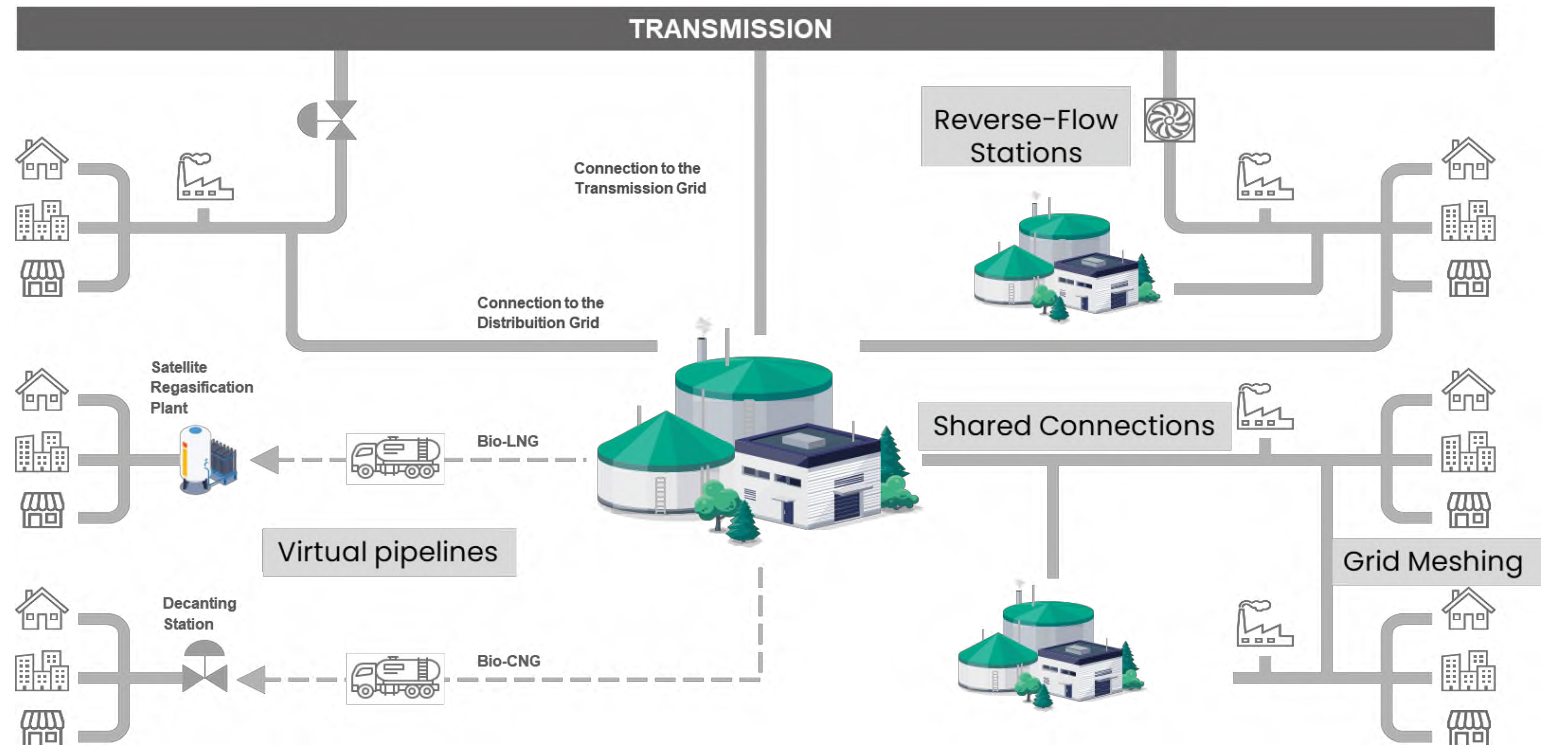
# Facilitating biomethane injection into the gas grid

To boost biomethane injection, countries should focus on how they manage and plan their gas networks, emphasizing a higher degree of integration and a comprehensive view of all the biomethane projects foreseen.

## European Best Practice

### Central evaluation of connection requests

- ✓ Identify the most cost-effective solutions at system level for biomethane plants connection to gas grids, in which the main **TSO** shall map the transmission and distribution networks suitable for absorbing biomethane production and their respective current and future capacities.
- ✓ This solution relieves producers from contacting and requesting connection quotes to individual network operators, allowing shorter timeframe to determine the optimal connection solution.



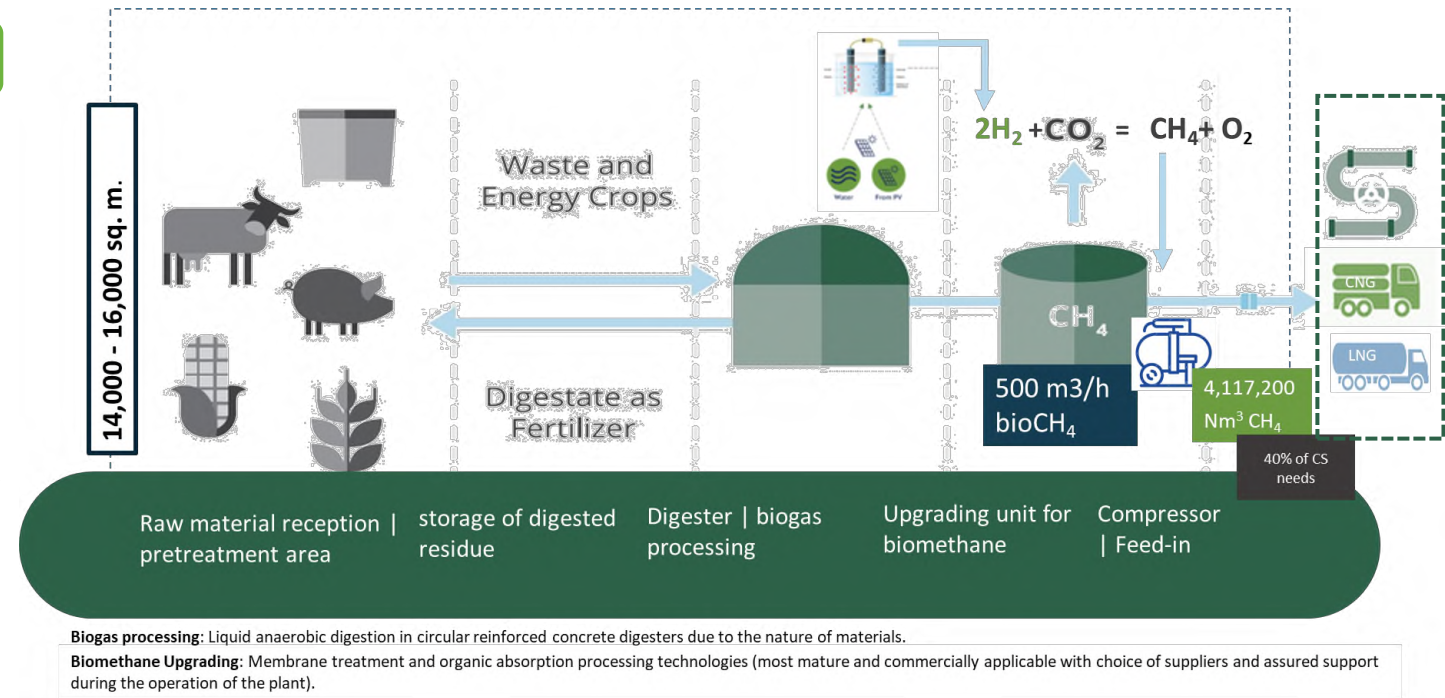
# DESFA's steps towards the concrete implementation of the Biomethane value chain in Greece



DESFA is assessing the opportunity to develop a biomethane pilot project for its own consumption purposes, namely, to cover the operating gas needs for our, existing & new, compressor stations.

## Opening the Greek Biomethane Market

- ✓ Vast pool of know-how on biomethane development based on the expertise of our shareholders
- ✓ Cooperation with major players with significant know-how in the Greek market for the development of a Biomethane Pilot Project
- ✓ Support for the development of the necessary regulatory framework in Greece
- ✓ Active participation in European Fora (GIE Biomethane WG, BIP Task Forces 2 and 4.4)





Desfa's is actively confronting the main challenges for the opening of the Biomethane market

## Challenges

- Biomethane Legal Framework
  - Financial and Permitting incentives
  - GoOs
- Connection to the Grid regulation
- Gas Specifications
- Security of Feedstock



Waste Management



Development



Network







**Thank you for your attention!**