

Πιλοτικό έργο ΔΕΣΦΑ για την αναβάθμιση βιοαερίου σε υψηλής περιεκτικότητας βιομεθάνιο: προοπτικές και προκλήσεις

ΕΝΕΡΓΕΙΑΚΗ ΑΞΙΟΠΟΙΗΣΗ
ΑΠΟΒΛΗΤΩΝ / ΒΙΟΜΑΖΑ
ΒΙΟΜΕΘΑΝΙΟ 2024

Eva Tsoukalidou

PMO Biomethane Pilot Project, Senior Manager δεσφα

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



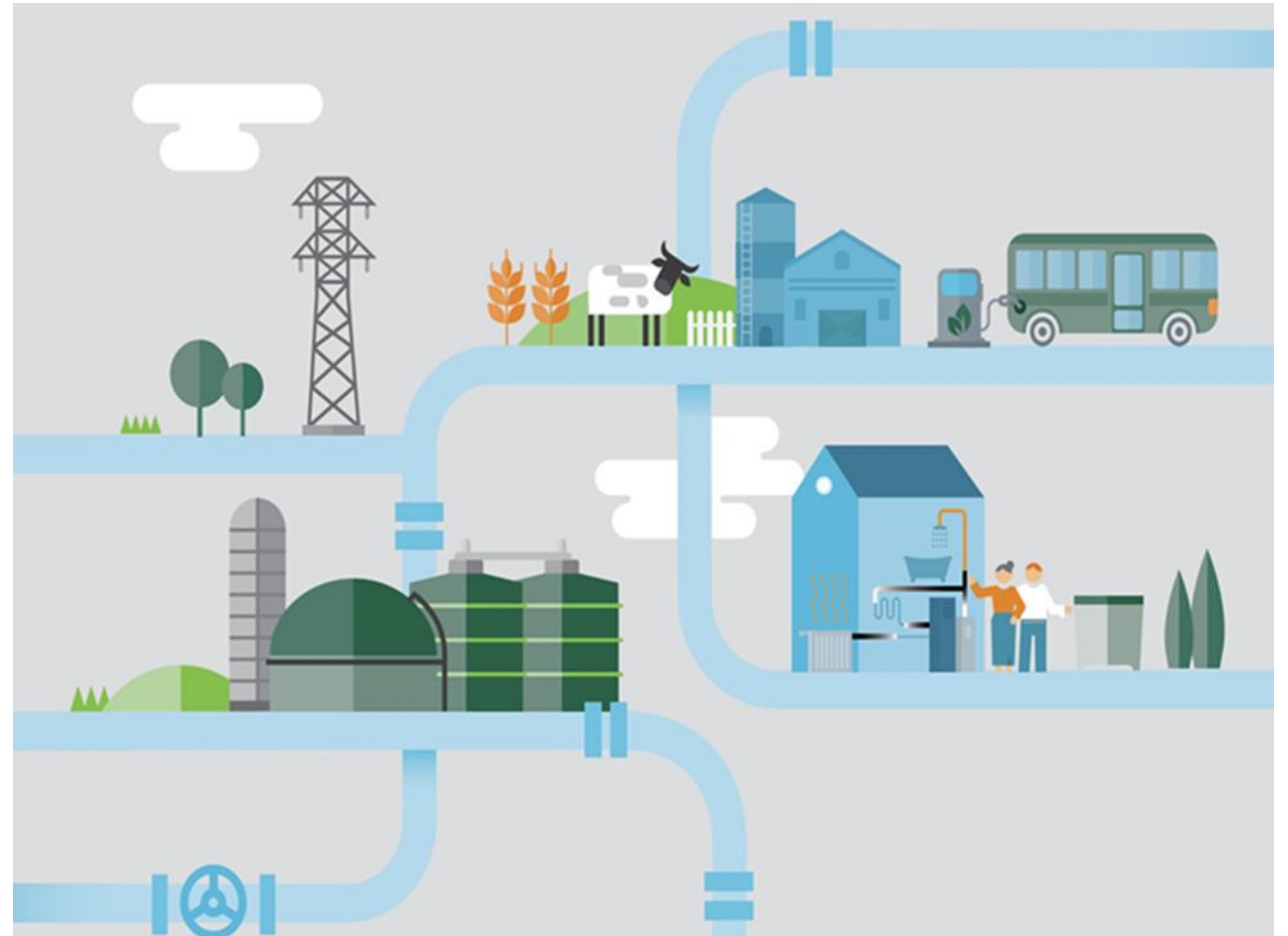
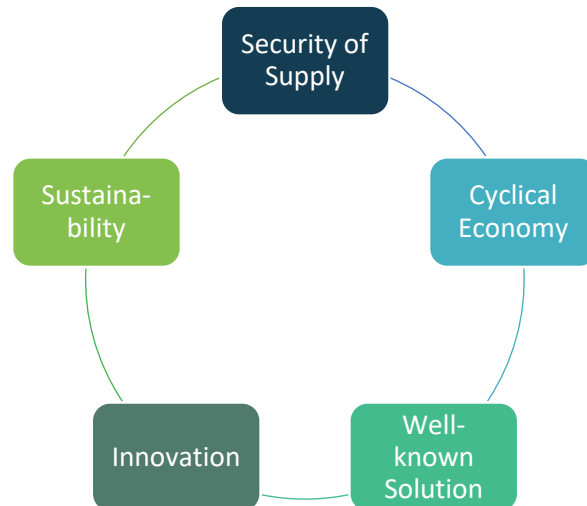
Biomethane is a pillar of RePowerEU



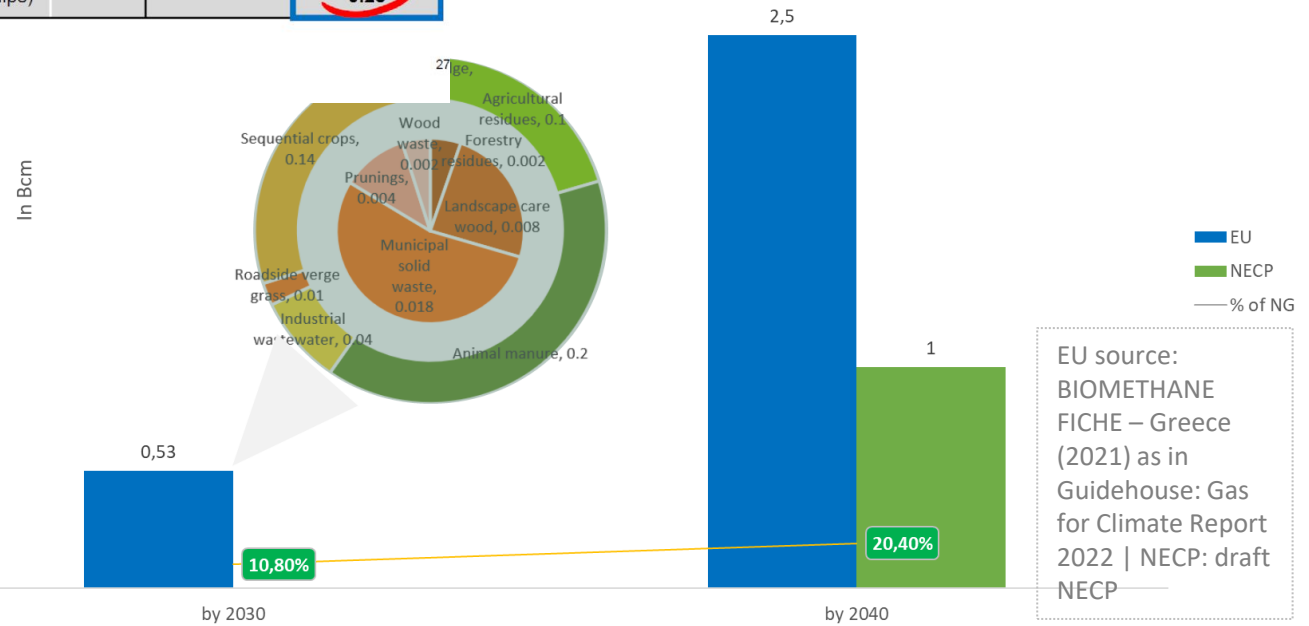
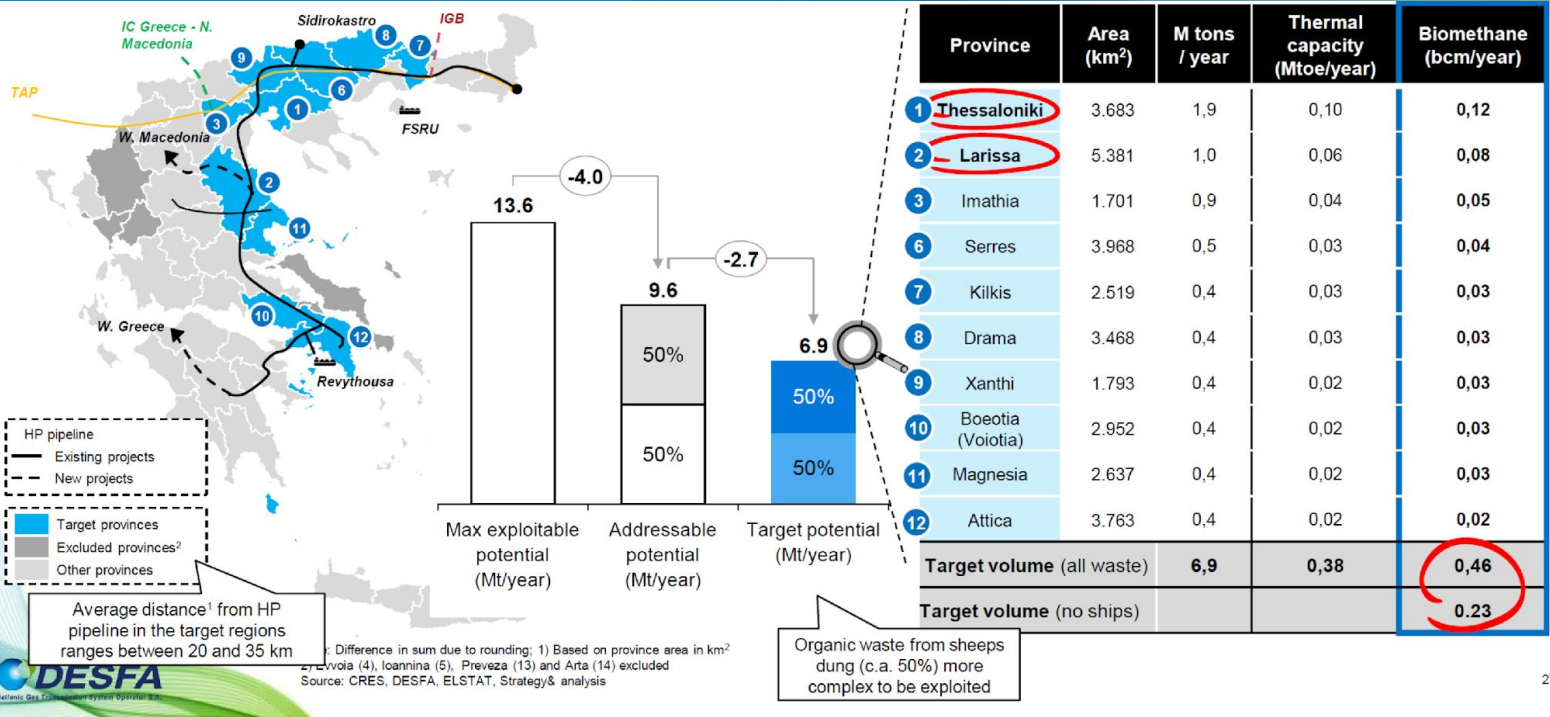
Already an EU practice (Italy, Germany, Denmark etc)



Epitome of cyclical economy and sustainability



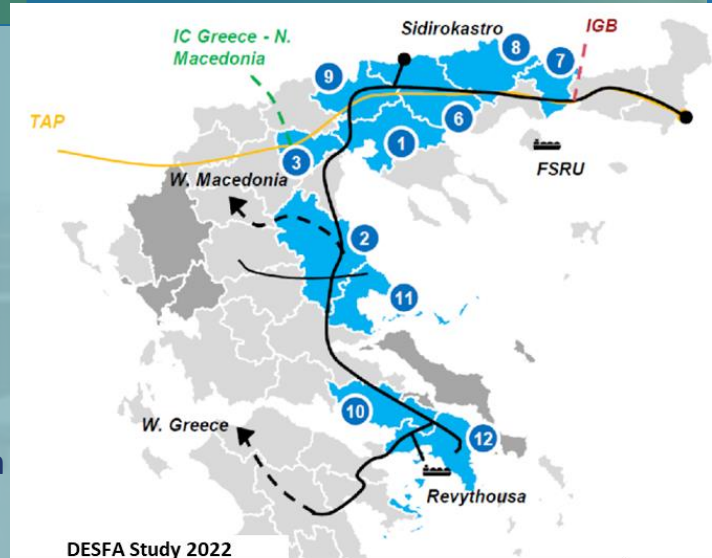
Biomethane Market Potential in Greece



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

Desfa's is the catalyst for the transportation of Biomethane

Suitab

- Desfa's Transmissi of Northern and high agricultural for biogas produc biomethane.
- Part of the units and then connect units can be place
- The connection to the advantage th be consumed at a internationally vi



DESFA Study 2022

Connection

significant without a network as of now, penetration of d: compressed (CNG) or s (virtual pipelines).

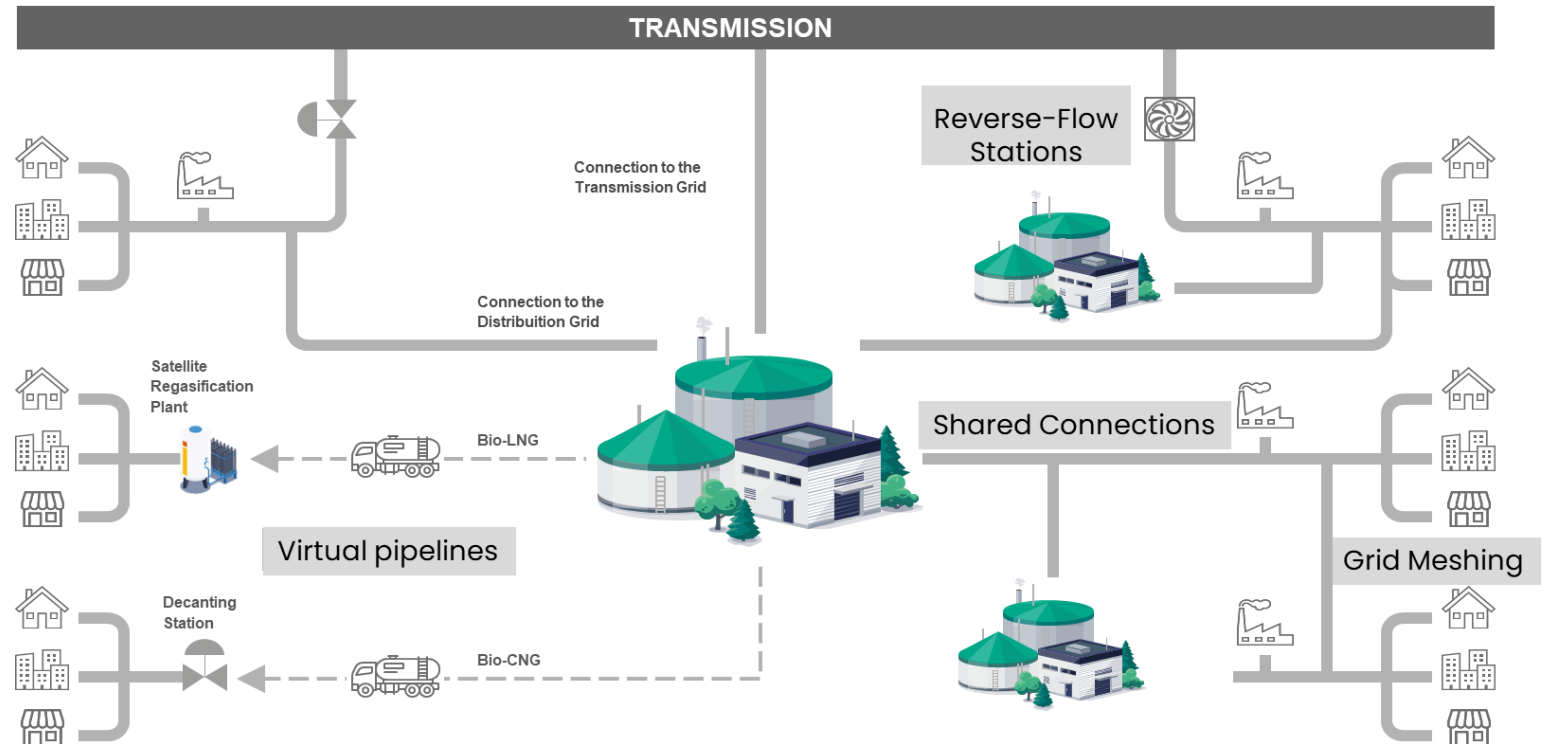
Facilitating biomethane injection into the gas grid

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.



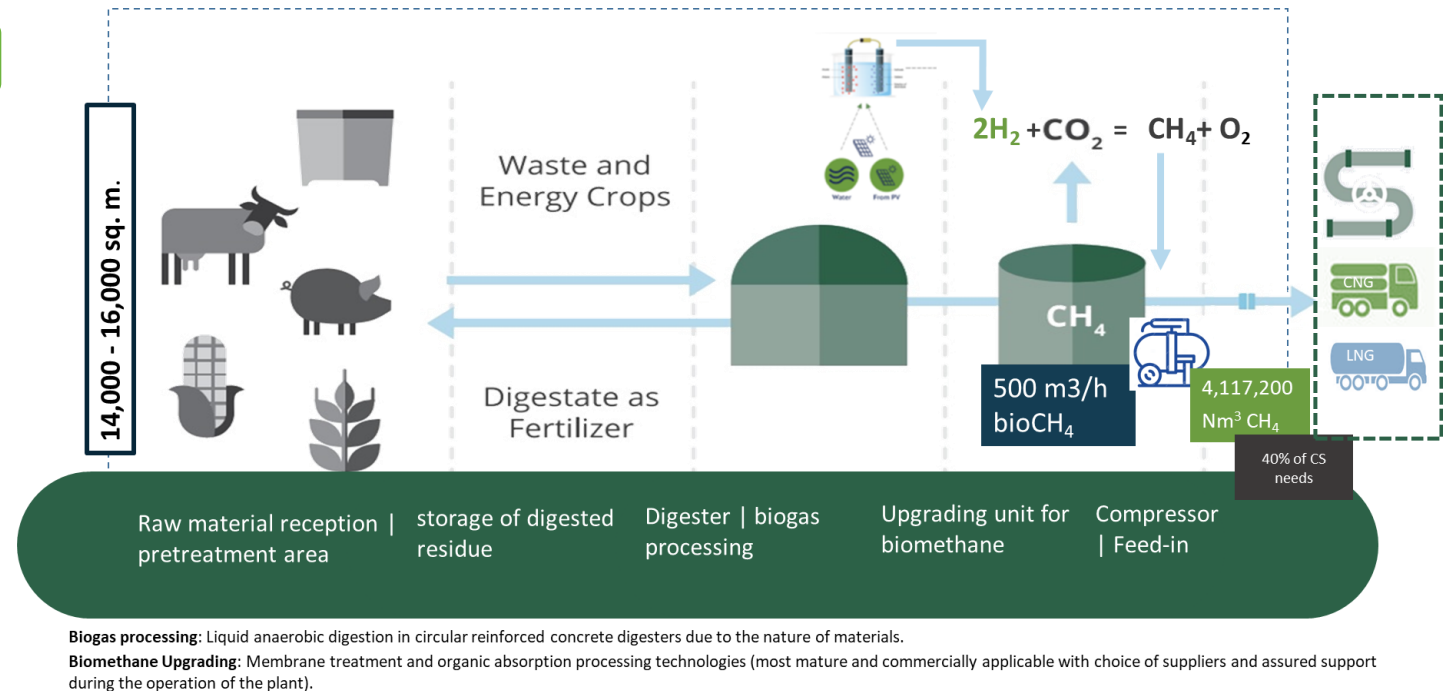
DESFA's steps towards the concrete implementation of the Biomethane value chain in Greece



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)**



Cyclical economy solutions require 'cyclical' approaches in confronting challenges

Challenges

- **Biomethane Legal Framework**
 - Financial and Permitting incentives
 - Compatibility with waste management framework and corresponding incentives
 - GoOs
- Connection to the Grid regulation
- Gas Specifications
- Security of Feedstock

Waste Management



Development



Network





Thank you for your attention!