



BIOGAS PLANT

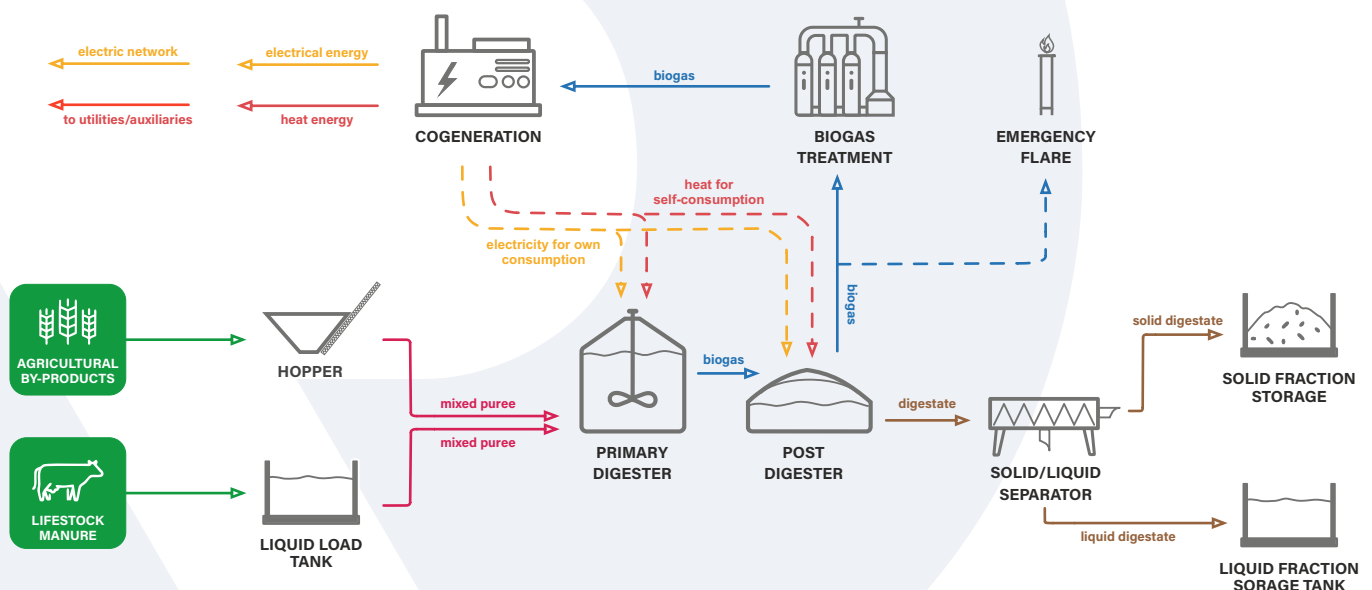
3 MWe

Mesopotamia Energy S.A.
Larissa, Greece



Watch the video!

This Larissa-based (Greece) biogas plant, fully engineered and created by Biowaste, provides 3 MWh of electricity. Its inventive concept and successful technology make it an ideal answer for the transformation of agriculture by-product and livestock matrices into energy. The plant scheme is represented in the diagram below.



Biogas plant data sheet

INSTALLED ELECTRICAL POWER

3000 kW

ENERGY OUTPUT

Yearly electricity production	26.100.000 kWh
Yearly biogas production	12.500.000 mc
Methane concentration (CH ₄) in biogas	55 %

DAILY FEEDING PLAN

Chicken manure, milk whey, cuttle manure and slurry, olive pomace, beet.pulp, agricultural by-products	Tot. 300 tonnes
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PLANT CONFIGURATION

Homogenisation tanks	n.5 of 300 mc
Solid feeding hoppers	n.3 of 100 mc
Primary digesters	n.3 of 4 700 mc
Post digester	n.1 of 5 800 mc

The plant feeds more than 26 million kilowatt-hours into the national grid each year through cogeneration. The feeding plan is designed to dose matrices with different characteristics, in order to have a homogeneous mix to be sent to the digesters. The primary digesters avoids the formation of sediment thanks to a special removal system at the bottom and sends the appropriately mixed and heated biomass to the post digester, finalising the fermentation process for maximum biogas production.

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