

Did you know that residues from your daily life can be used to produce energy while helping the planet?

WHAT

Every day we produce tonnes of organic residues and wastes that when they decay naturally produce GHG emissions, contaminate the environment and also give off terrible odours!



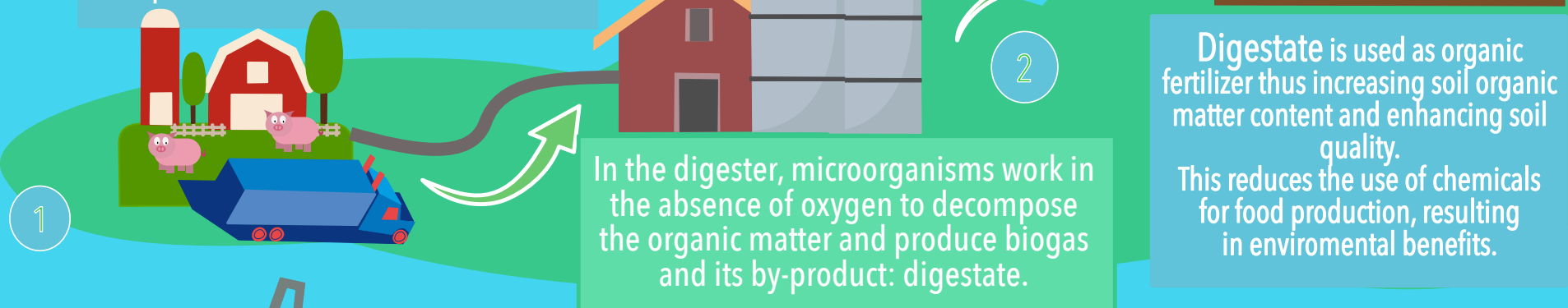
It doesn't matter whether they come from your house, farm or from an industry, as long as they are organic, they can be transformed into biogas through the process of anaerobic digestion.

These residues have a significant potential to produce energy.

HOW

The organic residues are transported to the plant, which is called a digester.

When a biogas plant is coupled with a livestock farm or with an industry, the process is even more efficient.



In the digester, microorganisms work in the absence of oxygen to decompose the organic matter and produce biogas and its by-product: digestate.

Digestate is used as organic fertilizer thus increasing soil organic matter content and enhancing soil quality. This reduces the use of chemicals for food production, resulting in environmental benefits.

WHY

Biogas can be used to generate heat and electricity that can be used locally or distributed throughout the national grid. It can also be "upgraded" to be used as a more sustainable transport fuel.

Local communities benefit not only from the energy produced but also new job positions, improved air quality and better sanitation, among others.

The production and use of biogas not only reduces GHG emissions, but also helps reduce deforestation, by representing an alternative to woodfuels.