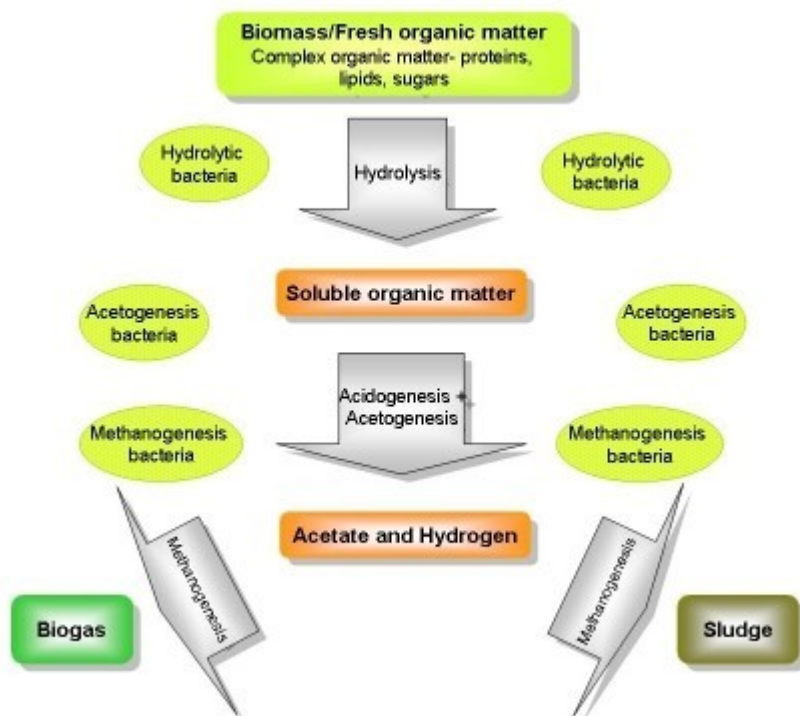


# Dairy Farming and Energy Production



Rep. of Ireland

Example of a successful cooperation between a dairy farmer and energy supplier



## GreenGas AD Plant

- Digestion Plant outside Shanagolden in Co. Limerick
- Processes manure and slurry from McDonnell Farms poultry and dairy farm as well as other imported feedstuffs
- Biogas used as fuel in a CHP Engine (250kW)
- Electricity sold to the national grid
- Heat recycled for heating use in both plants and the nearby poultry enterprise
- Digestate is used on local farm land as a high quality eco fertiliser

## McDonnell Farms Biogas Ltd.



## The Plant

- Permitted as a Waste Facility by Limerick County Council
- Animal By-Product Approved by the Department of Agriculture Fisheries, Food and the Marine
- Sustainable alternative to landfill for our bio-waste suppliers

## What is Biogas?

- Biogas refers to a gas produced by the biological breakdown of organic matter in the absence of oxygen (anaerobic digestion or the fermentation).
- Biogas is a biofuel produced by biodegradable material like biomass, green waste, 'household' waste and food waste.
- Biogas can be used for heat production, electricity production, combined heat and power, transport fuel and injection in to the main electricity or gas grid.

