

# City profits from new location 'city farm' with biogas unit



Nord – Pas de Calais (F)

- Example of successful cooperation between dairy farmer, the city, and suppliers of organic waste

## Cooperation partners

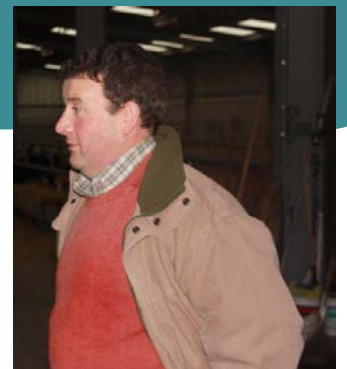
- Socketeel farm
- Private firm Dalkia and town council of Somain
- Organic waste suppliers: food processing industries, gardeners...

## Cooperation activities

- Establish new dairy farm (including slurry storage) 500 m outside of the city
- Biogas plant at new location with co-digestion of slurry and organic waste
- Dalkia (middleman between farm and city council) manages the heat valorization
- Digestion of industrial waste and garden waste are valorized in the unit.

## Socketeel farm :

3 LU (2 family labour, 1 employee)  
240 ha AA (50 ha grassland, 40 ha maize)  
82 cows – 650 000 l quota  
18 slucking cows  
80 fattening bulls



## The benefits

- For Socketeel farm
  - New building for the cows in the middle of the pasture (cubicles on slatted floor with 2 milking robots)
  - Process slurry and manure (3,000 m<sup>3</sup>)
  - An odourless and rich fertilizer reduces need of chemical fertilizers
  - Income from electricity production: 1 GWh/year and sell to EDF
- For the city
  - No **smell problem**
  - Heat** to heat the swimming pool (*in project*)
- For suppliers:
  - Food **industries**: valorize waste from vegetables, juices, etc.
  - Gardeners**: valorize garden waste

## Added benefit for society ?

- At farm scale
  - more sustainable farm with the possibility to valorize organic waste from the city
- At regional scale
  - supply of 'green' electricity, low-cost heating of a swimming pool and a decreases the of organic waste

