



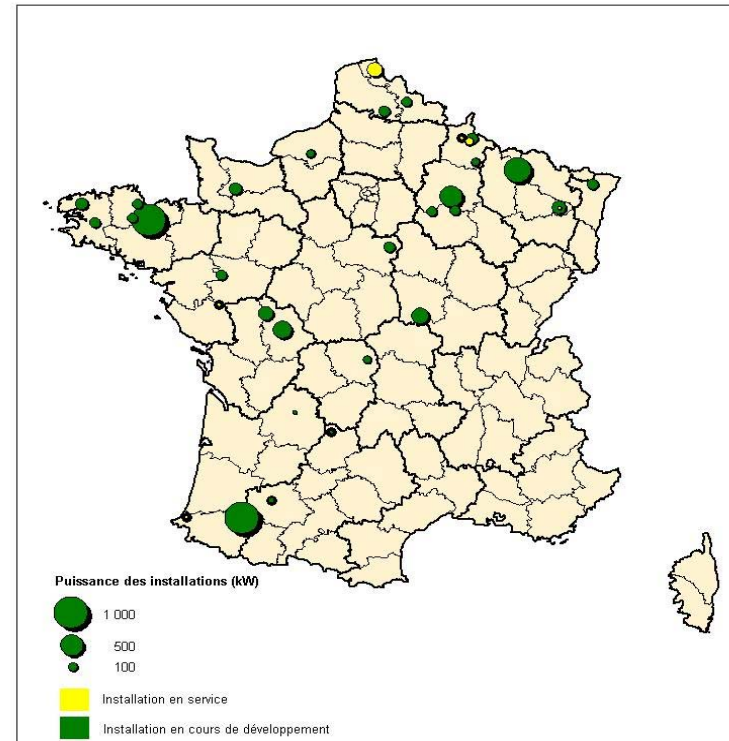
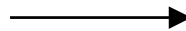
Biogaz development in France

- **Food industry :**
 - 127 digestors
 - +5 per year
- **Municipal Plants :**
 - 5 plants built since 2003 (capacity : 340 kT MSW/y)
 - 2 plants in building today (Montpellier, Marseille)
 - 2012 : around 20 plants
- **Sewage treatment plants : 68**
 - decreasing
 - old plants



On-farm biogas

Nb of projects	130
2008/2009	30
Average power	260 kW_{el}



Source : ADEME / GEODE / G.Bastide
 Cartographie : ADEME / DOBS / V.Roth



Means and purpose to develop biogas

- **Today :**
 - new price for electricity (2006)
 - help to investment (French state, EU)
 - Different tools : biogas calculator, GHG calculator, rules guide

- **in the future :**
 - simplification for environmental rules
 - Purpose : 1000 plants in agriculture for 2013



Which valorisation for digestate ?

- Spreading plan
- Homologation
- Normalization (NFU44051/NFU44095 = enrichment)

⇒ Very important problem in France

⇒ Which solutions for other countries ?

ADEME



Agence de l'Environnement
et de la Maîtrise de l'Énergie





Les premières installations en France

GAEC Oudet (Champagne Ardennes), 30 kW_e



Exploitation Lebbe (Aquitaine)



SCEA des trois chênes (Nord Pas de Calais), 250 kW_e

GAEC du Château (Champagne Ardennes), 80 kW_e

