

Greening the gas grid : the biomethane opportunity

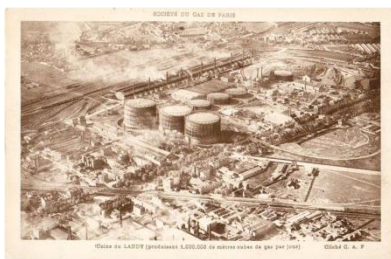
4th July, 2017 – European Parliament in Strasbourg



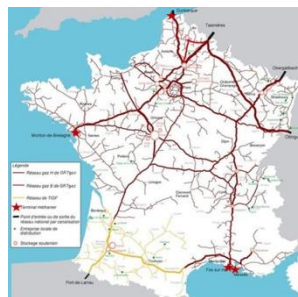
Past, present and future of gas

An **interconnected distribution gas network** in order to **pipe renewable gases** and serve performant **usages** (mobility, heating...)

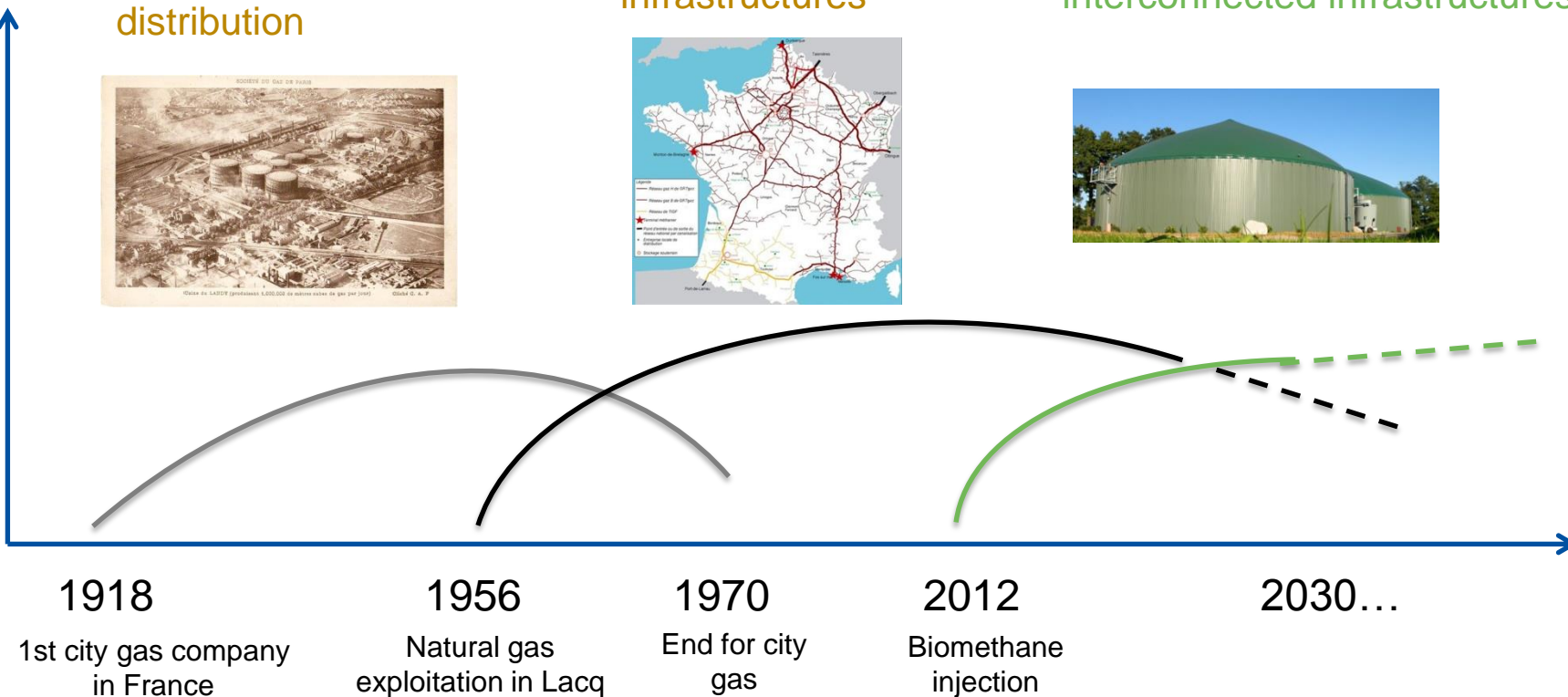
Manufactured gas
Local production and distribution



Natural gas
Centralised infrastructures



Renewable gas
Decentralised and interconnected infrastructures



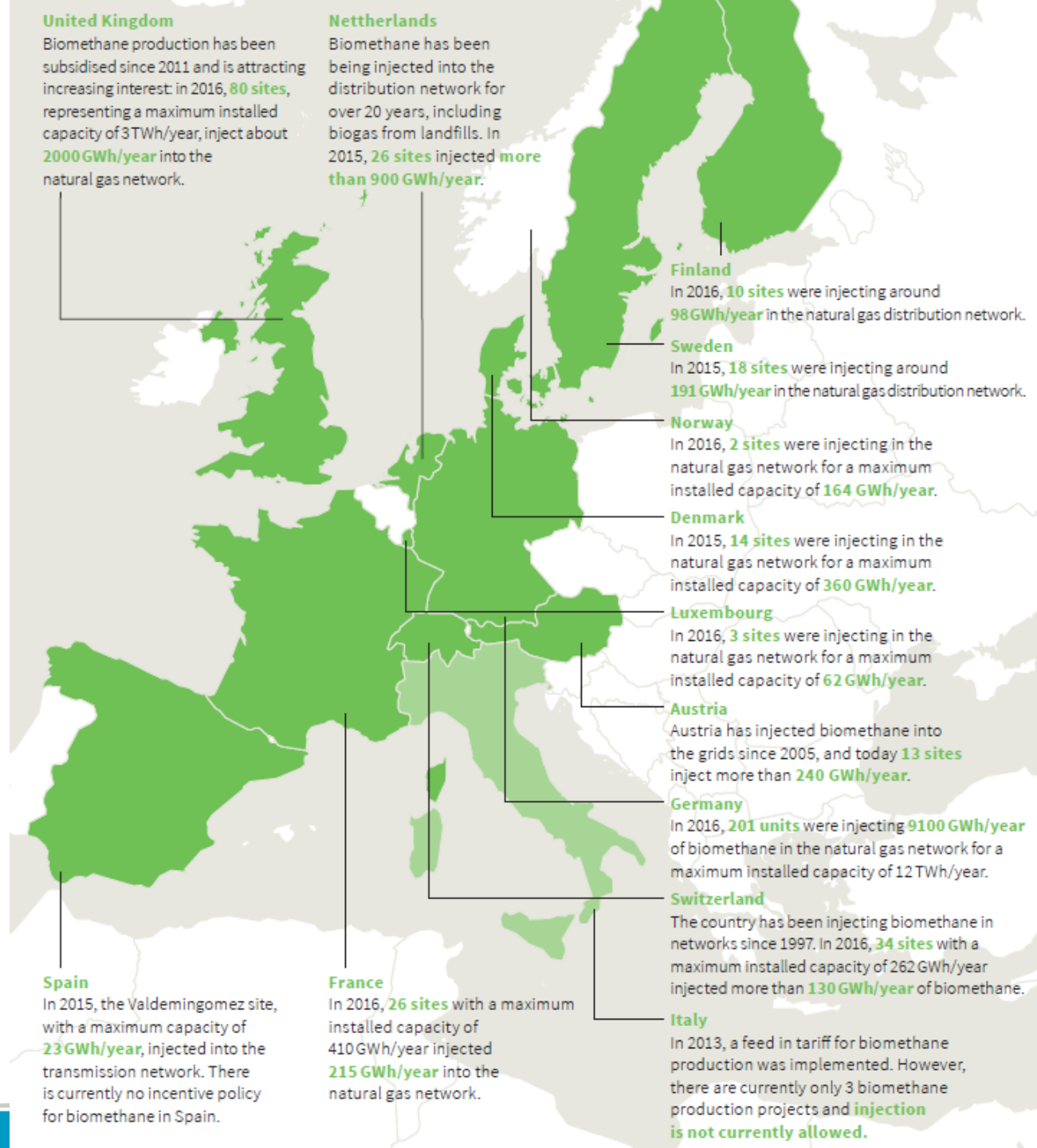
Biomethane is growing in France and in Europe



In France, growth of the biomethane plans number **+162% between 2015 and 2016** (26 plants in 2016 and 25 plants in 2015).

Biomethane is growing in France and in Europe

Overview of biomethane injection in Europe



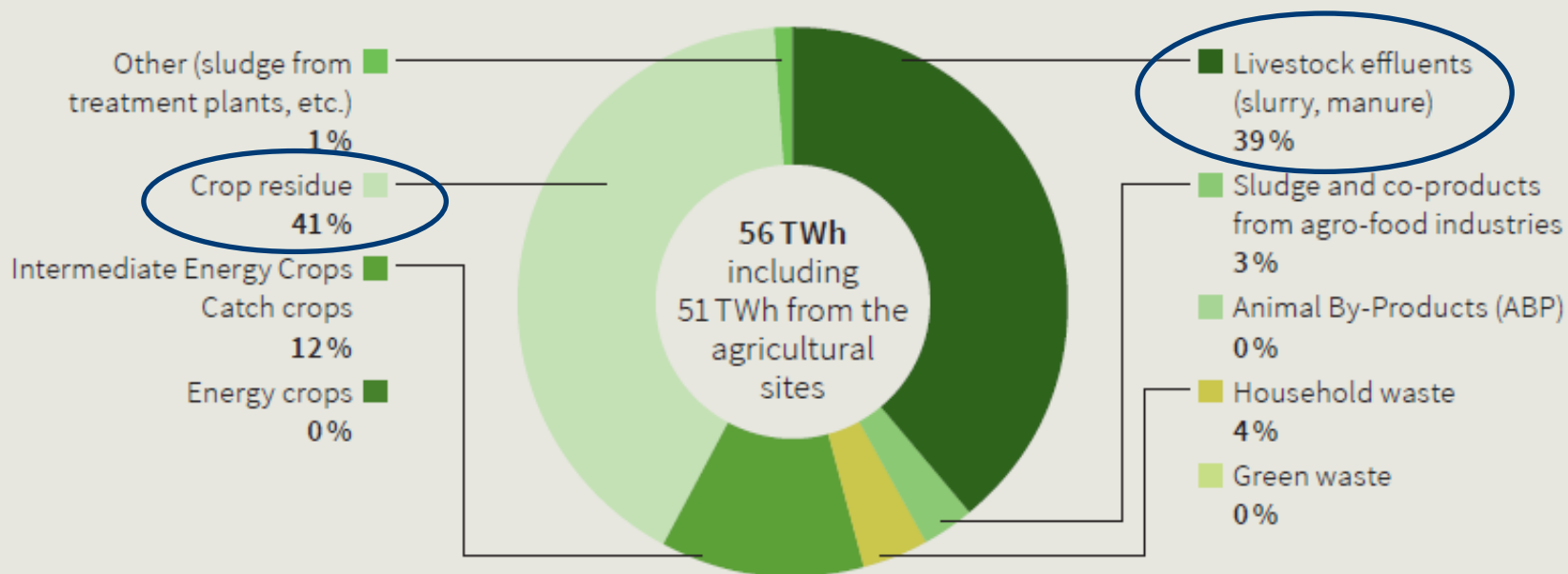
Biomethane has a huge potential

The French example

Distribution of national resources that can be used for anaerobic digestion by type of feedstock

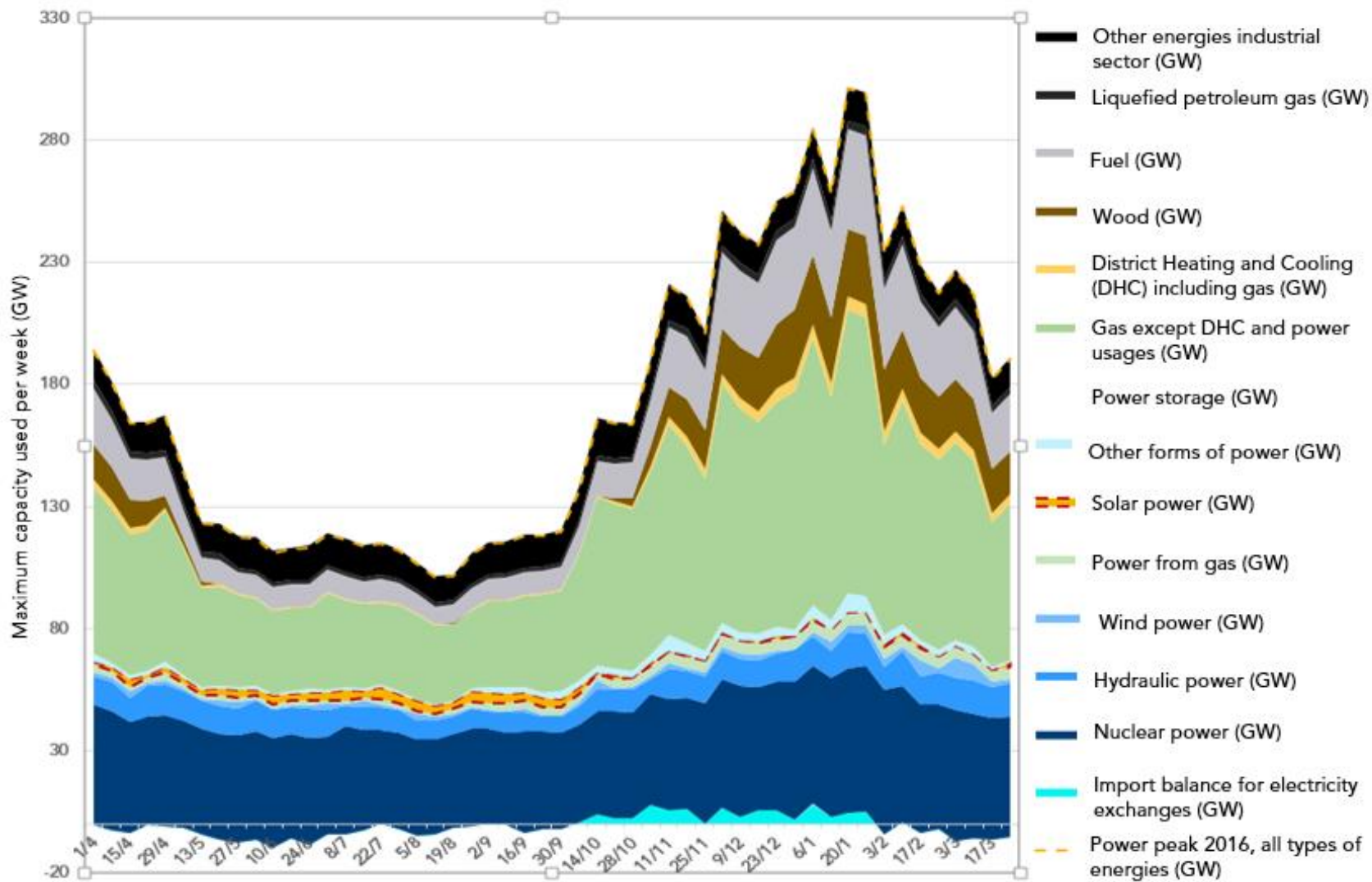
Source: "Estimation of potential substrate resources that can be used in anaerobic digestion" (ADEME - April 2013).

Study carried out on behalf of ADEME by SOLAGRO and INDDIGO



The gas network flexibility

Energy peak per week over the period from 01.04.2016 to 31.03.17



Biomethane opportunities

- ✓ Biomethane can be **directly injected into the already existing gas grid** ;
- ✓ Biomethane is **storable** ;
- ✓ Biomethane is a **competitive solution** ;
- ✓ Biomethane can contribute to **decarbonise heating and mobility** ;
- ✓ Biomethane can contribute to **growth in rural areas** ;
- ✓ Biomethane can contribute to the **development of circular economy**.

According to the proposal of the Renewable Energy Directive, biomethane can contribute to :

- ✓ **27%** of **renewable energy** within the energy mix target in 2030;
- ✓ **1%** of annual increase for **renewable heat** target from 2020 to 2030;
- ✓ **6,8%** of 2nd generation biofuels and **3,6%** for 3rd generation biofuels target in 2030.