

26th World Gas Conference

1 – 5 June 2015, Paris, France



SP or TS or ISC number

PRESENTATION TITLE

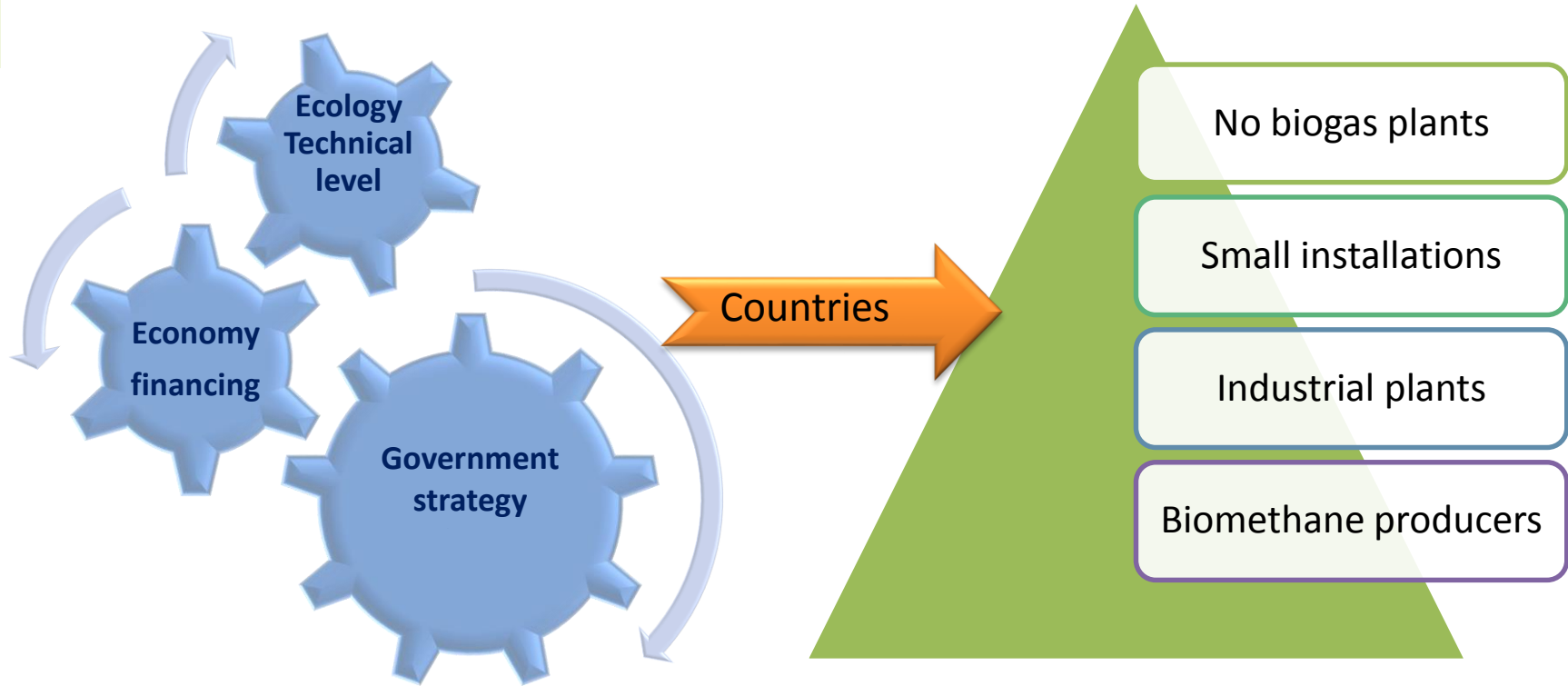
Presenting Author Name

Company name

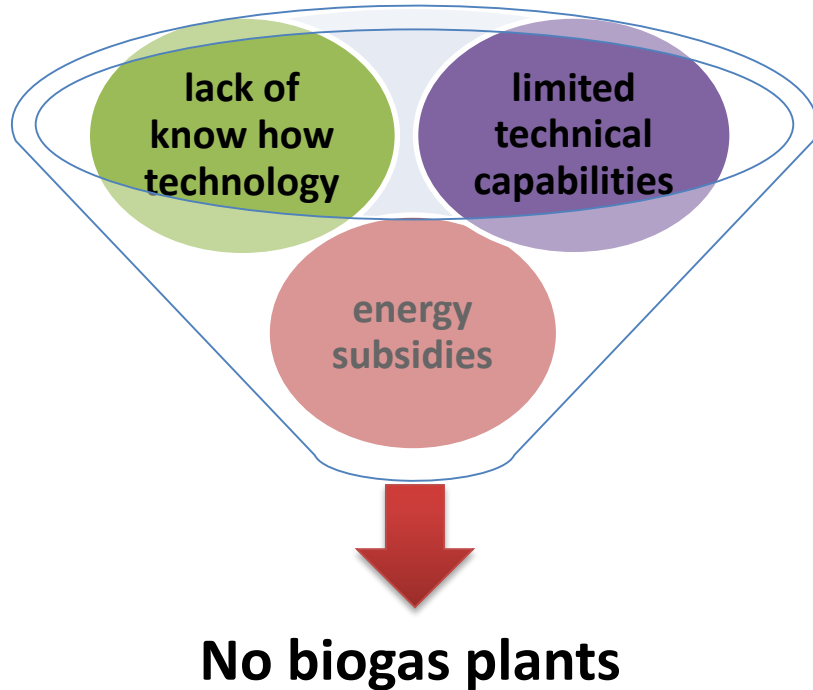


- Introduction
- Countries with no biogas plant
- small and very small installations
- small installations success
- Industrial biogas power plants
- Forerunners countries : biomethane producers
 - biogas resources
 - biomethane upgrading plants
 - Biomethane use
 - Best practices

Pillars for Renewable gases sustainable development



Countries with no biogas plant



small and very small installations



Asian countries

Millions of family sized installations.

China starts in 1930



Latin America



Africa

(South Africa : the most successful case)

small installations succes



Industrial biogas power plants

Convert biogas directly to heat or electricity – No upgrading plant

Good experience

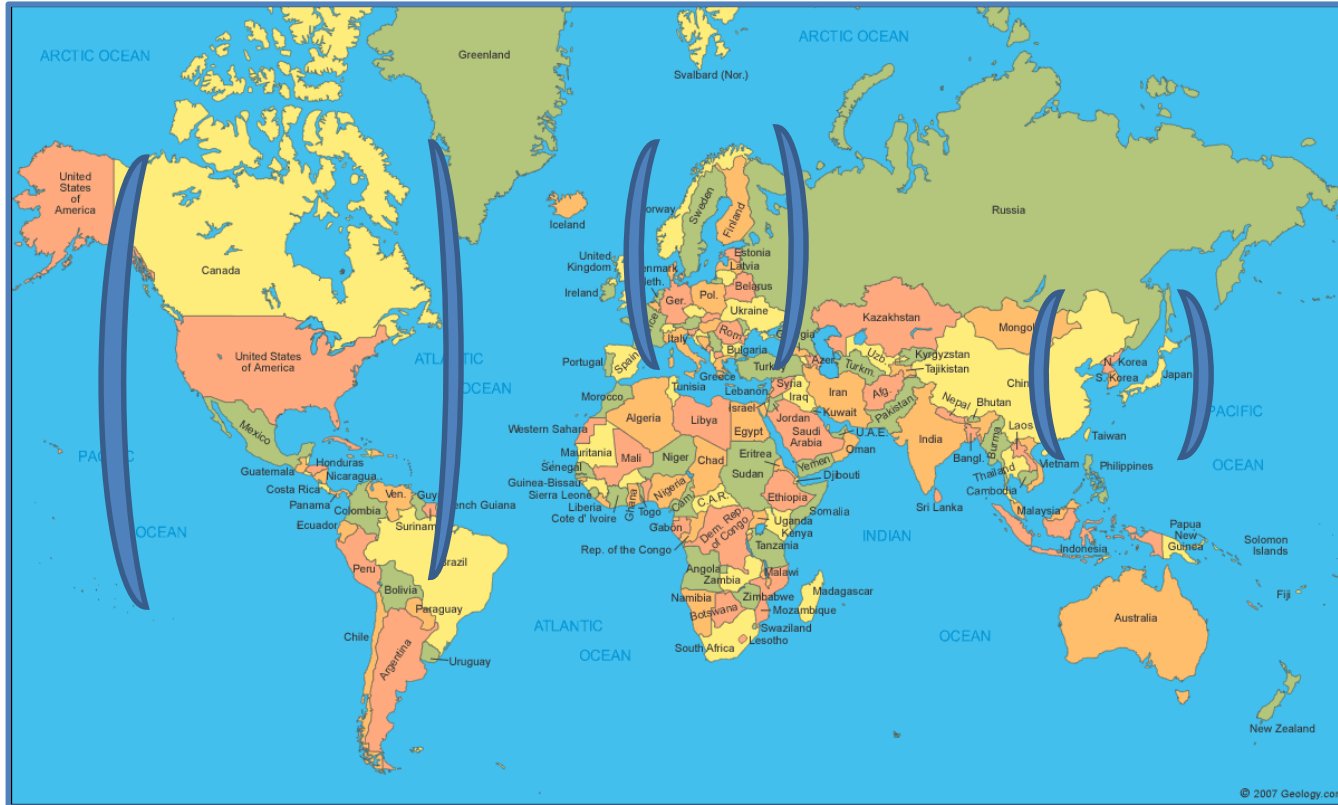
Some Eastern
European countries

No financial incentives for biomethane

Pilot power plants

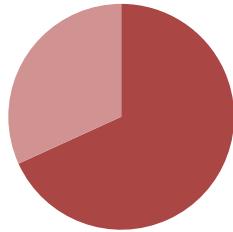
- Malaysia
- Kenya
- Jordan
- Marroco (On the way)

Forerunners countries : biomethane producers



Forerunners countries

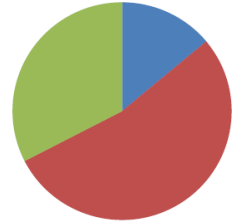
USA



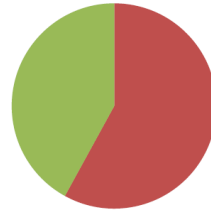
■ WWTP
■



South Korea



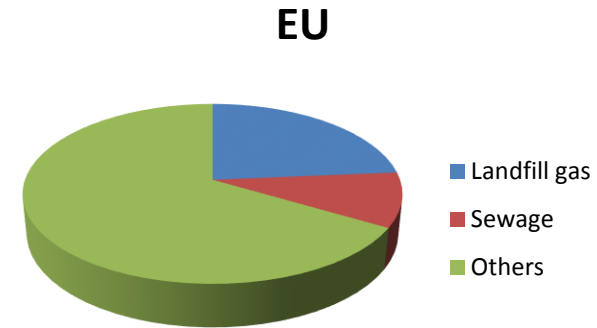
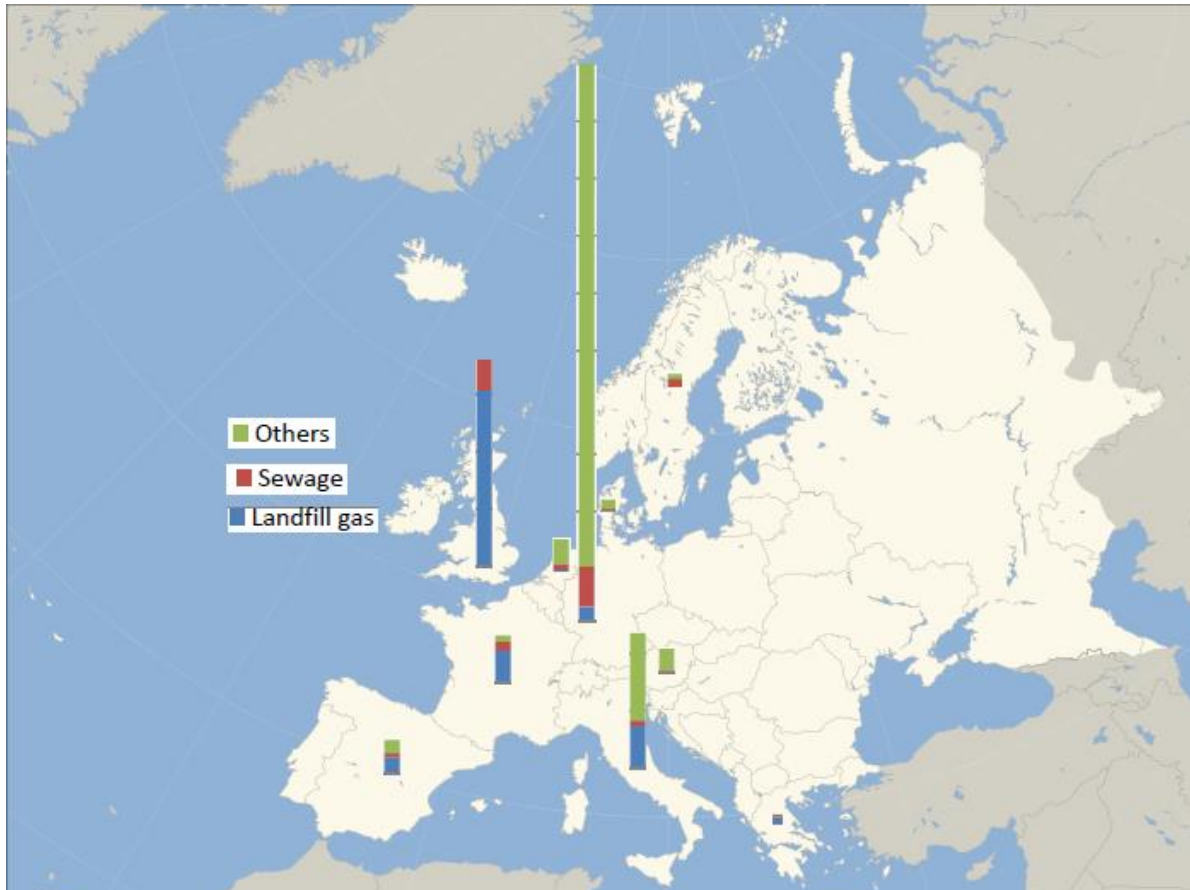
Japan



■ Landfill gas
■ Sewage
■ Others

Biogas ressource

4. Forerunners countries



Biogas ressource

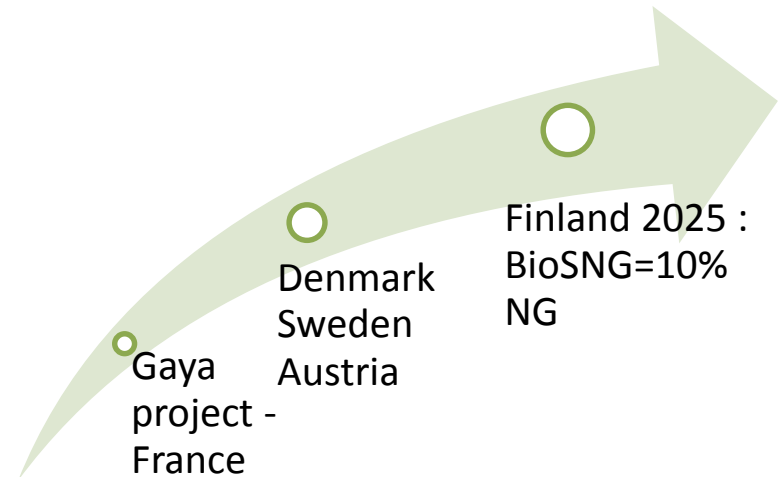
Energy crops and wood based SNG

Energy crops

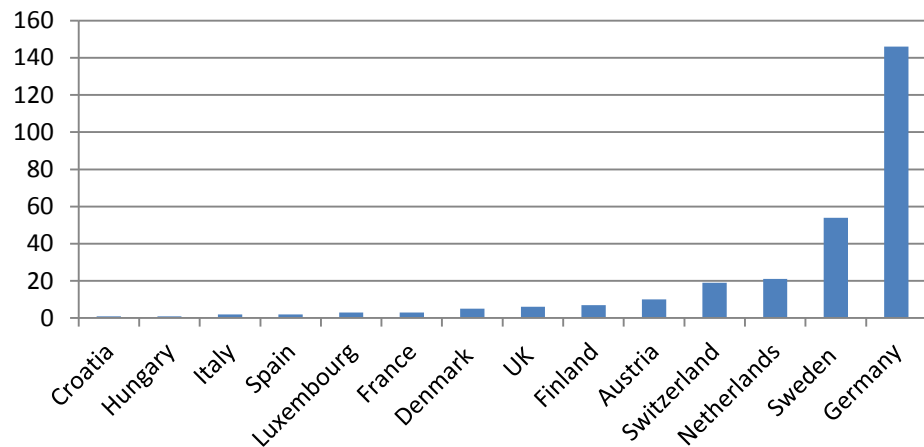
Diversify farm
income (Germany
Sweden)

EC highlight
environmental
issue

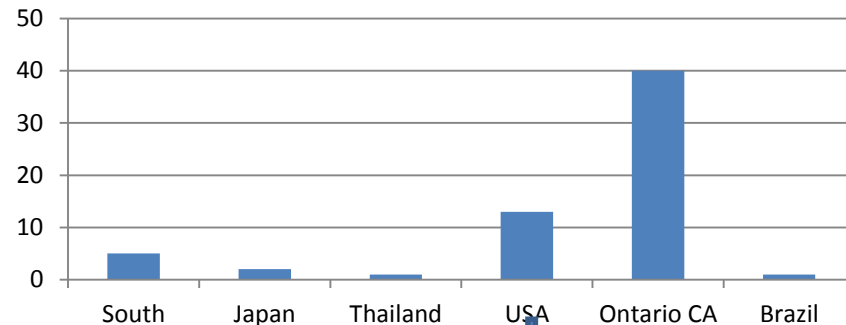
wood based SNG



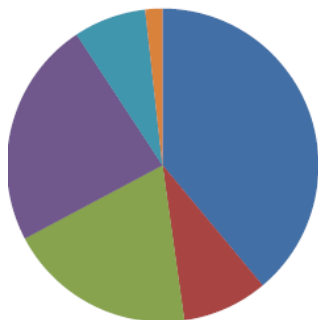
Biomethane upgrading Plants by 2013



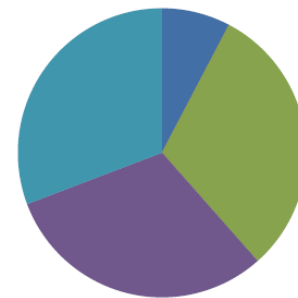
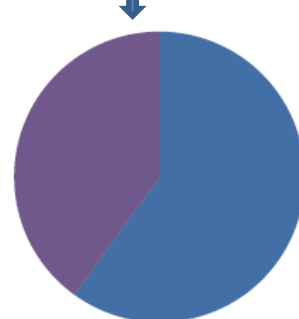
Other side of the world



European countries



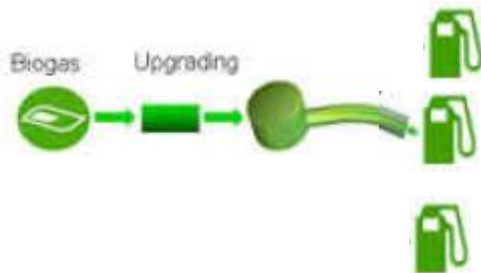
- Water scrubbing
- Organic scrubbing
- Chemical scrubbing
- PSA
- Membrane
- criogenic



Forerunners countries : biomethane use

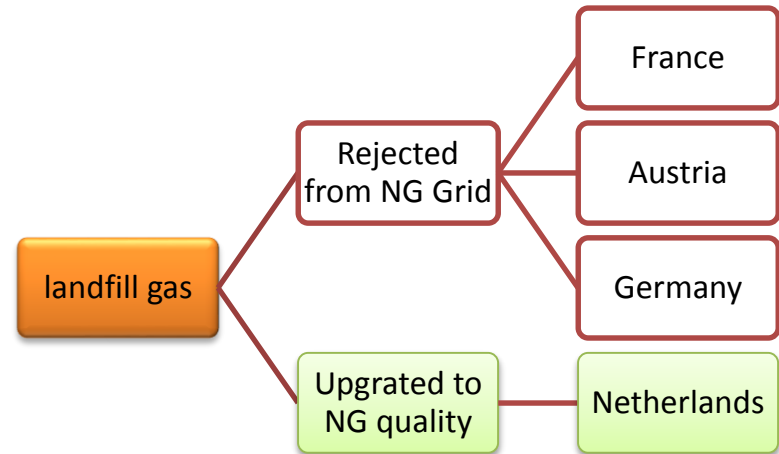
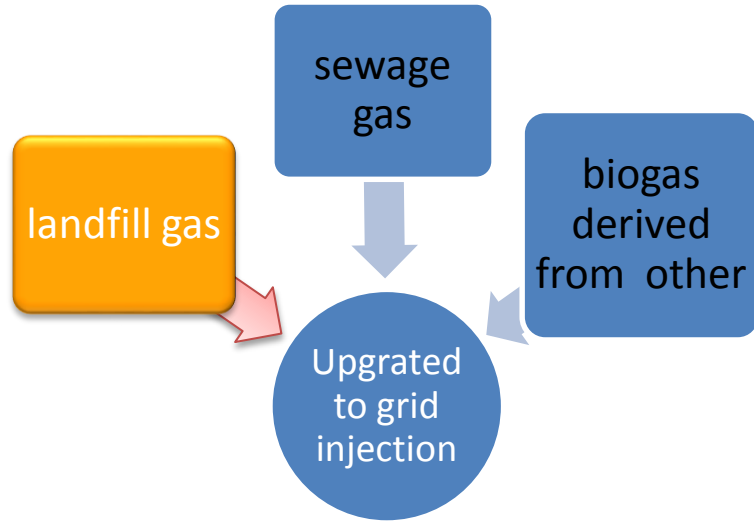


Biomethane Vehicle fuel



Sweden : biomethane is mainly transported in compressed state in mobile storage units but also in liquefied state and in local gas grids

Biomethane grid Injection Best practice



Centralized upgrading of biogas from small scale plants

