



Green gas Production & Smart grids

TR@NSENER Brainstorming Workshop

14th June 2017

a young SME

- Founded in septembre 2014
- Offices in Bordeaux and Toulouse
- 2016 turnover : 75 k€

supported by



design, assembly
and set up of green
gas facilities based
on methanation

the team



Vincent Guerré

Founder & President

MBA HEC

STMicronics, Primagaz



Viviana Contreras Moreno

R&D Engineer

PhD Chemical Engineering



Stéphane Palmade

CTO, associate

Engineer

Voltalis



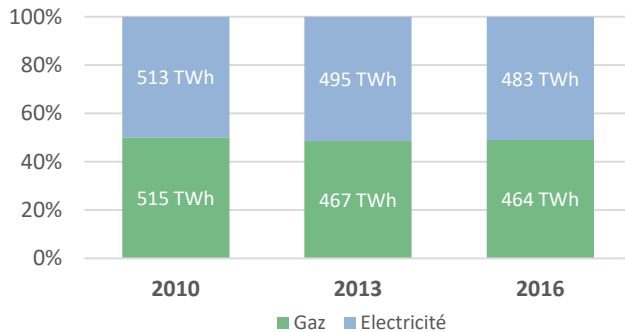
Pascale Boureille

Administration



Laboratoire d'Ingénierie des Systèmes
Biologiques et des Procédés
(CNRS, INRA, INSA Toulouse)

annual consumption similar to electricity

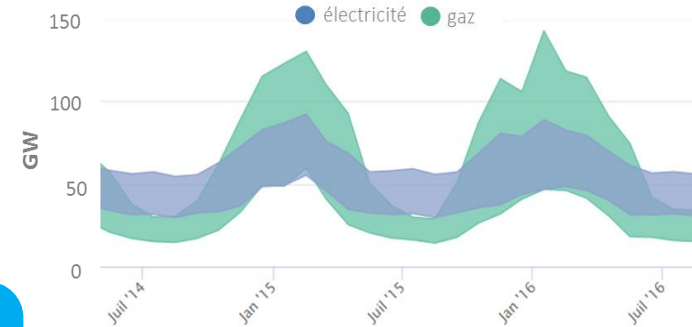


Annual gas and electricity consumption in France

Gas

part of the future of energy

energy vector complementing electricity



Monthly gas and electricity consumption in France

a growing market

a green gas to reduce CO₂ emissions



anaerobic digestion

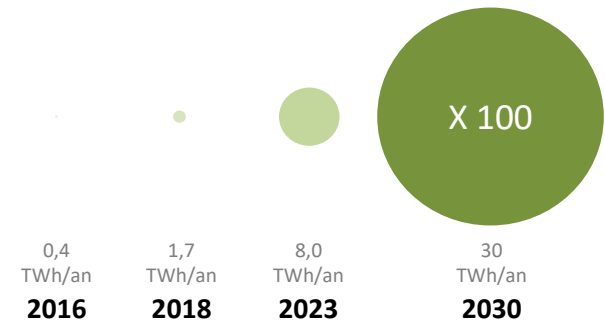


gasification

Biomethane

green substitute to fossil natural gas

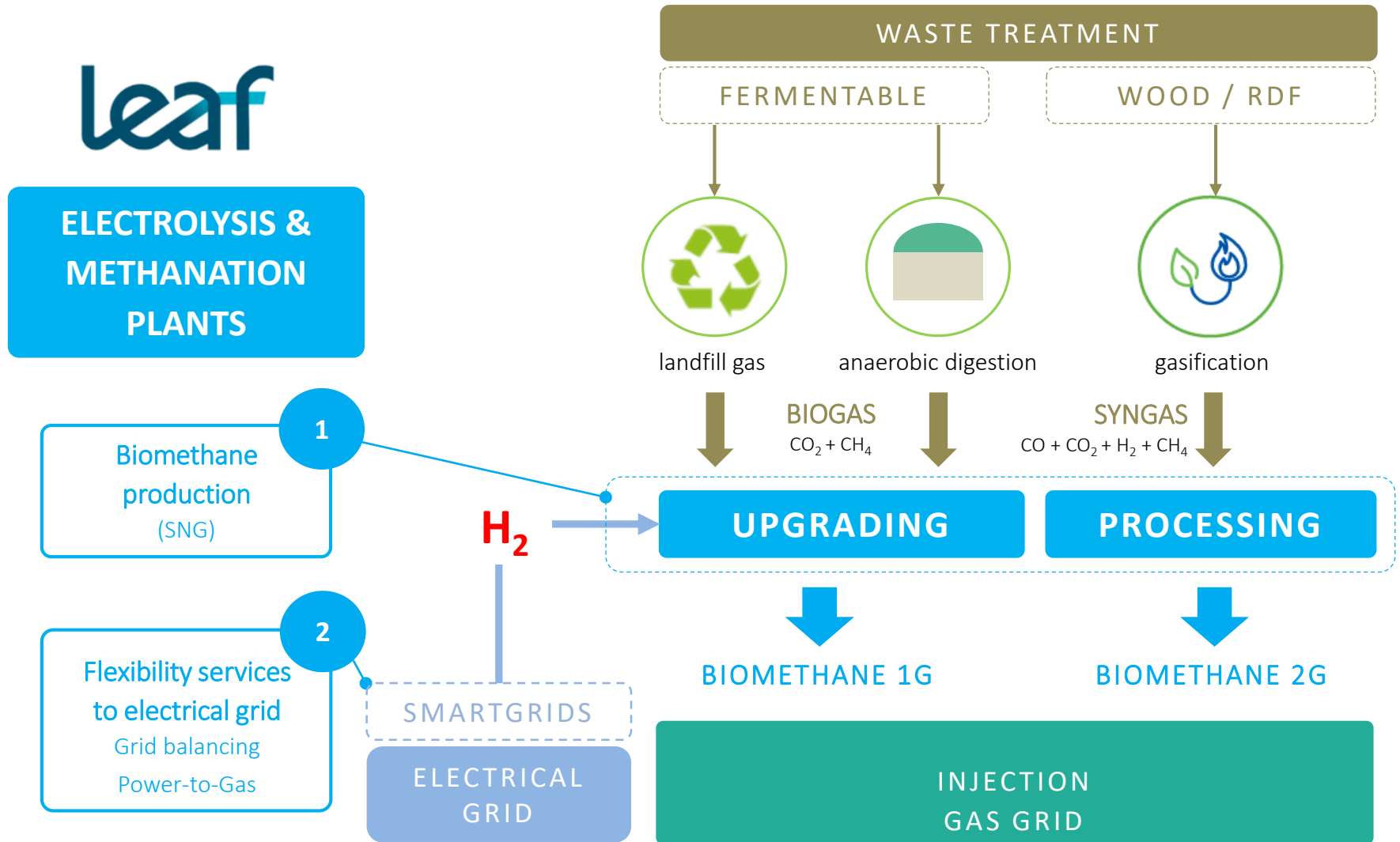
a growing share of the market : 10% of gas consumption in 2030



Biomethane production objectives (Loi de Transition Énergétique, PPE 2016)

Our solution: methanation

4



Our challenges regarding hydrogen

5

>> Hydrogen as a process gas to produce methane

how we see
hydrogen

a link between
intermittent renewable electricity
and
continuous gas production processes

main challenges

PRODUCTION

- Low-cost, high efficiency electrolyser
(low quality requirements: ~ 99%)

STORAGE

- High energy efficiency
- Low risk



thank you for your attention

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