



Biomethane roadmap for France

Club Biogaz ATEE

Biosurf meeting – London, December 16th 2015



National political targets

Planning and national call for tenders

- Call for tenders « 1500 AD plants in 3 years » launched in 2014
- « EMAA » national plan aiming at 1000 on-farm AD plants

Objectives of the Law on Energy Transition for Green Growth (LTECV)

- Renewable energy : 23% of the energy mix by 2020
- Renewable energy : 32% of the energy mix by 2030
- **Green gas : 10% of the total gas consumption by 2030**
- Green fuel : 15 % of the total fuel consumption by 2030

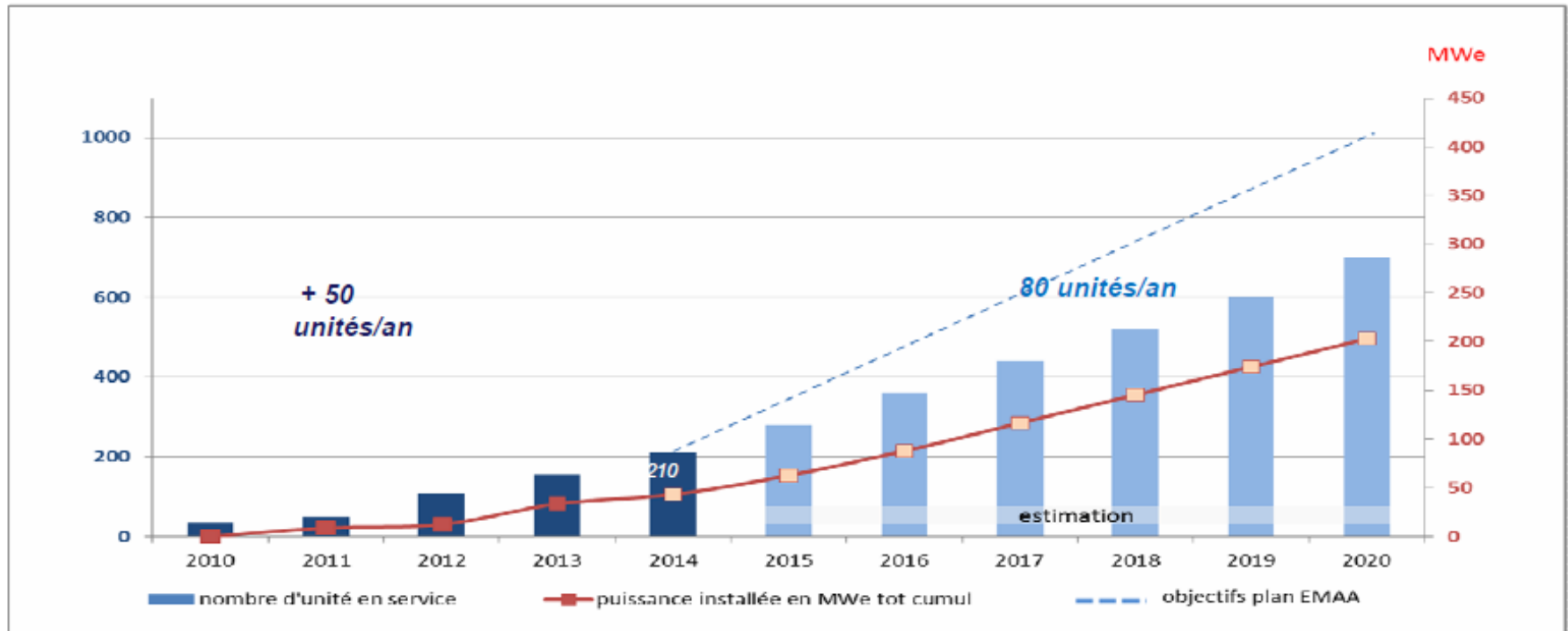
LA TRANSITION ÉNERGÉTIQUE pour la
CROISSANCE VERTE



+ Regional subsidies and planning

Prospective scenario for biogas development

Estimation ADEME

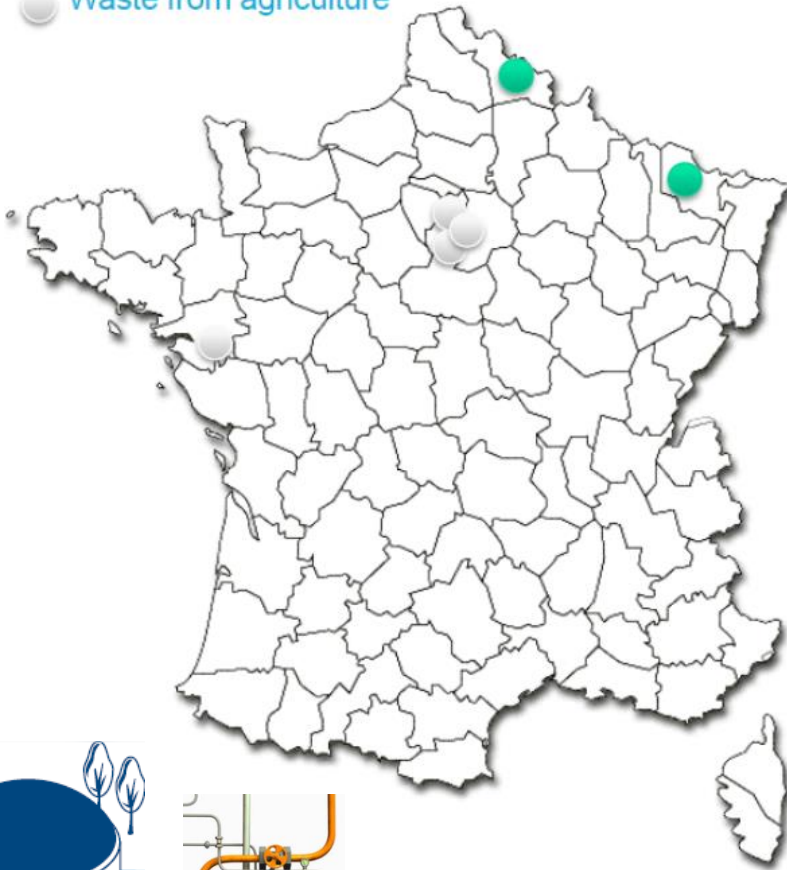


The Multi-annual Energy Programming (PPE) for 2018 and 2023

	Renewable gas injected	
	By the end of 2018	By the end of 2023
1st objectives of the PPE	1,7 TWh	6 TWh
Proposal issued by Club Biogaz		6,1 TWh

Current biomethane park in France

- Waste of Households
- Waste from agriculture



- The regulatory framework has been introduced in November 2011
- **In February 2015, 6 biomethane units** were operating in France
- Annual injection volume in 2015 : 70 GWh (enough to cover the annual gas consumption of about 6000 households)



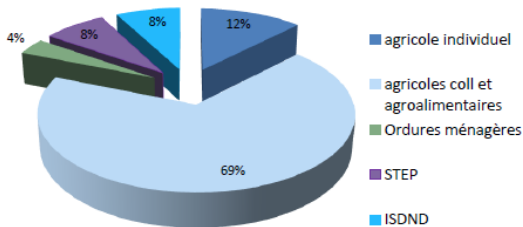
Future development in France

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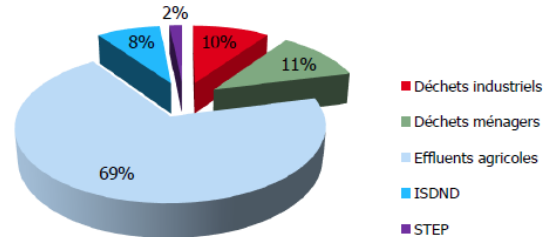
Le bilan des projets d'injection

	GrDF	GRTgaz
Projets en cours d'étude	400	70
Etudes de faisabilité réalisées	214	8
Débit moyen des projets	240 m ³ /h	Entre 200 et 700 m ³ /h
Potentiel estimé en 2020	5 à 16 TWh	1 à 4 TWh

Typologies de projets GrDF



Typologies de projets GRTgaz



DATE : 3 | JUIN | 2014

- **As of June 2014** : 400 projects for the distribution grid, 70 projects for the transmission grid
- **As of February 2015** : about 600 biomethane projects (400 for the distribution grid, 200 for the transmission grid)

Support mechanism for biomethane injection

- Feed-in tariffs :

From **6,5 to 12,5 euro cents / kilowatt hour**

↗ with the use of agricultural input and agro-food waste

↗ with the use of household waste, catering waste and public waste

↘ with the power

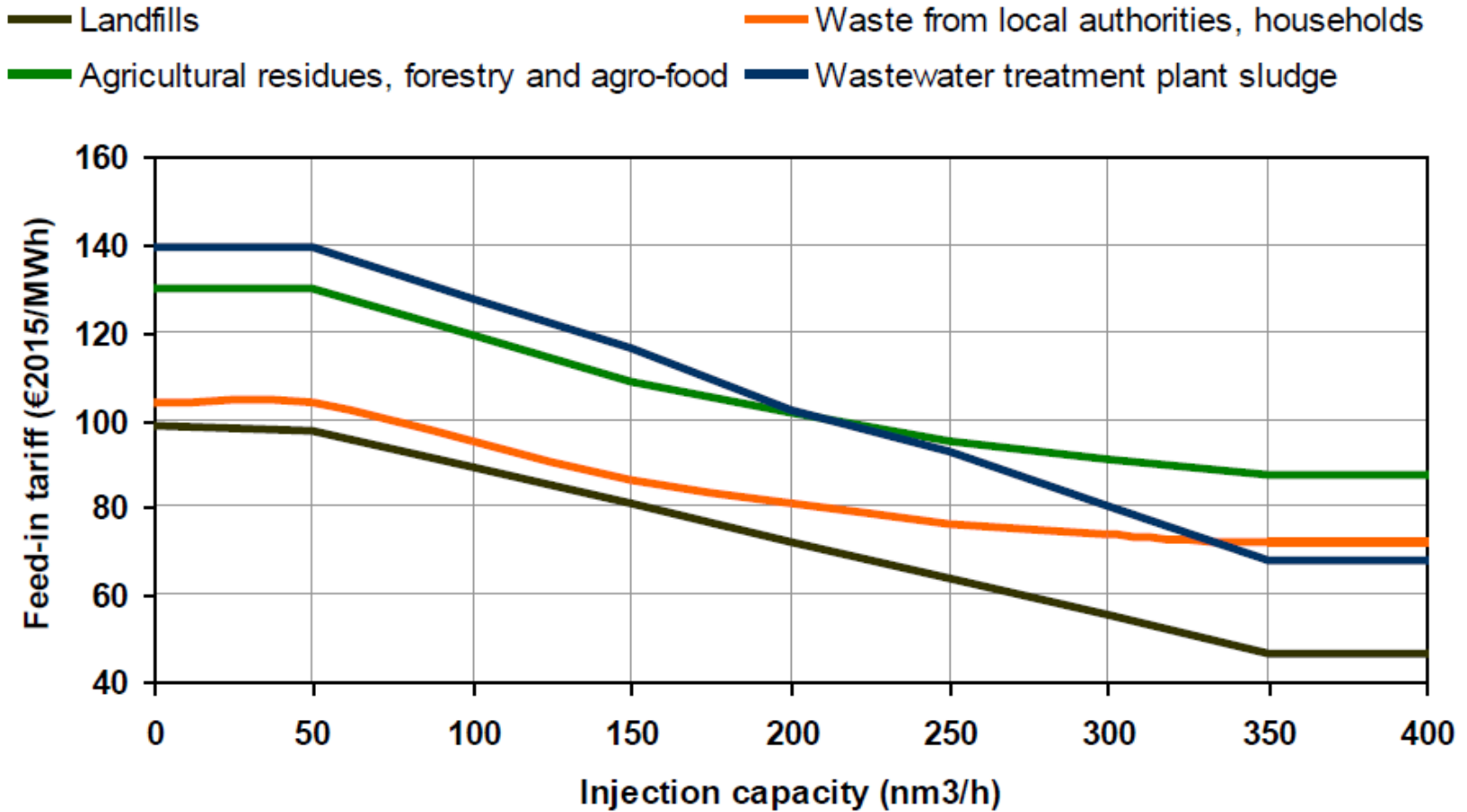
- Also applicable to biomethane as a fuel (bioNGV)

- Renewable
- Improved air quality
- Mature NGV Technology

- Upcoming evolutions : alignment with feed-in tariffs for electricity, call for tenders...



Feed-in tariffs according to the type of biomethane unit



Different support mechanisms and incentives

Injected biomethane

Used as household gas

- **Feed-in tariff**
- **Subsidies**
- Domestic consumption tax on natural gas
- Guarantee of origin (GoO) sold by the supplier to the customer (25% of the price goes to the supplier)



Used as a fuel (bioNGV)

- **Feed-in tariff**
- **Subsidies**
- Domestic consumption tax on natural gas
- Guarantee of origin (GoO) sold by the supplier to the customer (100 % of the price goes to the supplier)
- **Tax incentives** : exoneration on the cost of registration certificates for vehicles
- Amortization of the purchase of a bioNGV vehicle (up to 18 300€ / year)



Non injected biomethane

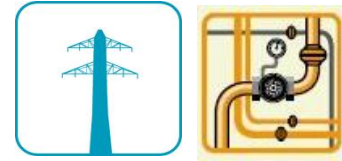
Only used as a fuel (bioNGV)

- **No feed-in tariff**
- Domestic consumption tax on energetic products
- No guarantee of origin
- **Tax incentives** : exoneration on the cost of registration certificates for vehicles
- Amortization of the purchase of a bioNGV vehicle (up to 18 300€ / year)



Other incentives

- Priority to injection in the new gouvernemental decrees on feed-in tariffs for electricity production (as from 2016)
- The legislation on large-scale producers of biowaste sets an obligation for these producers to recover their biowaste, with an increasing scope :



Year	Biowaste	Cooking oil waste
2012	120 tons/year	1500 litres/year
2013	80 tons/year	600 litres/year
2014	40 tons/year	300 litres/year
2015	20 tons/year	150 litres/year
As from 2016	10 tons/year	60 litres/year

Thank you for your attention



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