

# Biomethane injection in France

Direction générale de l'énergie et du climat  
Ministère de l'Écologie, du Développement  
durable et de l'Énergie

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*Stanislas REIZINE*

*Adjoint au chef de bureau des infrastructures gazières*



# Agenda

- I. Objectives of the biomethane development
- II. Key characteristics of the regulatory framework
- III. Current and future development



# Objectives of the biomethane development

Biomethane feed-in into the natural gas grids is promoted by the French government since November 2011 in order to :

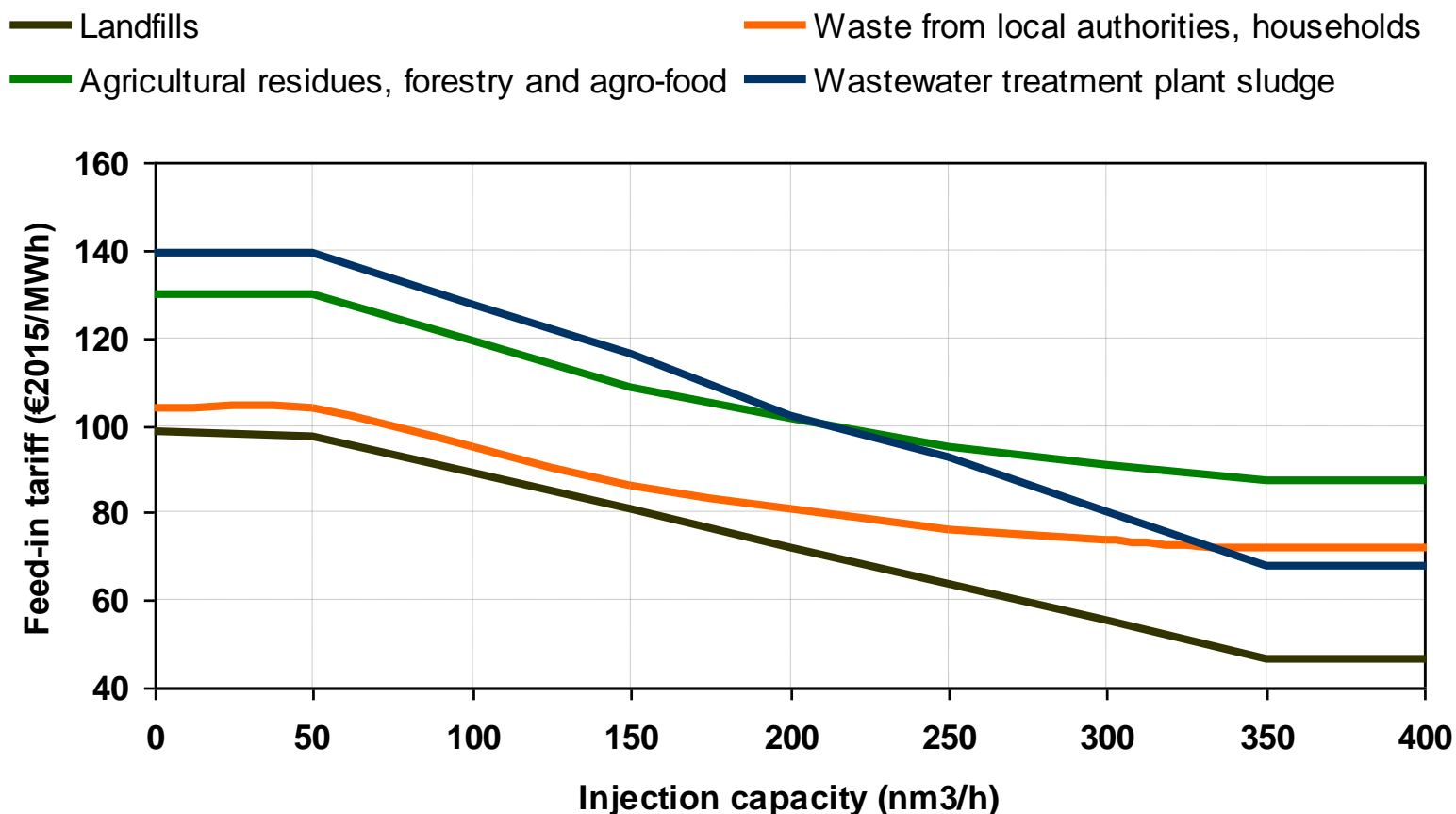
1. contribute to the EU 2020 energy targets, in particular to achieve a 23 % final energy consumption from renewable sources by 2020.
2. contribute to the ambitious targets of the upcoming French energy transition law (*“Projet de loi relatif à la transition énergétique pour la croissance verte”*).
3. *increase biogas production as it is sometime limited by the lack of heat opportunities.*

# Key characteristics of the regulatory framework

- **Every biogas producer can contract with any gas supplier to sell, for 15 years, its biomethane production ;**
- **The contracting gas supplier receives a payment from a compensation fund to cover the difference between the cost of biomethane and the cost of natural gas on the market. The relevant cost of biomethane is determined by the Ministry of Ecology ;**
- **All gas consumers contribute to the compensation fund ;**
- **The contracting gas supplier receives a Guarantee of Origin (GoO) provided by a National operator in order to sell “Green” gas offers.**
- The Ministry also identified voluntary “last resort buyer” ;
- GrDF has been appointed for 5 years as the GoO register operator.

# Biomethane feed-in tariffs (1/2)

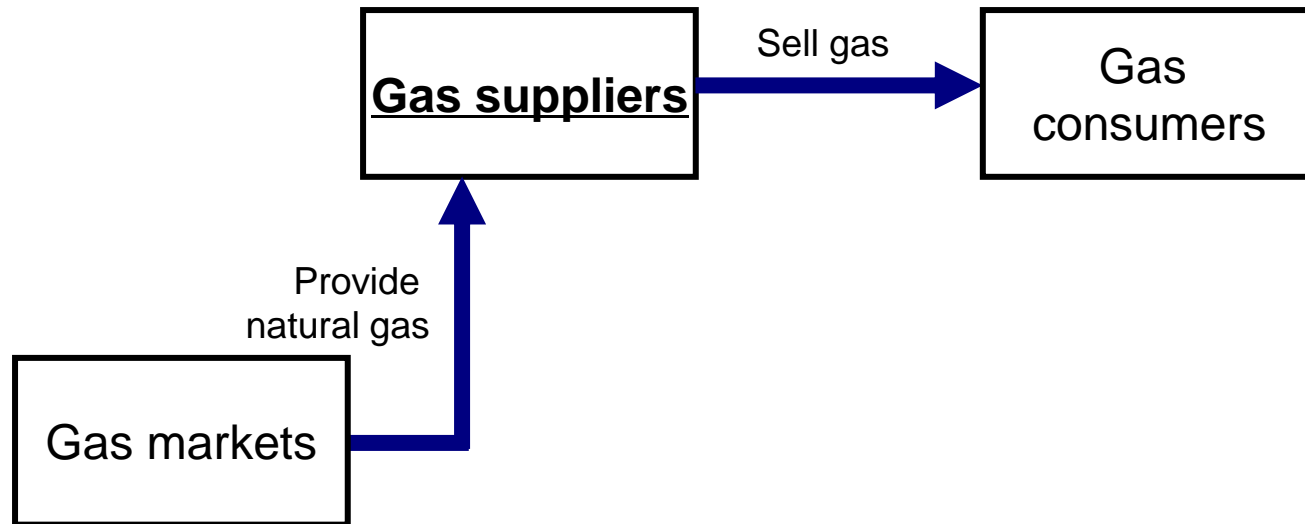
- The type of unit that can feed-in biomethane into the grid is defined by the Ministry after appropriate environmental, health and safety assessments ;
- The feed-in tariff applicable to the different type of biomethane unit :






# Biomethane feed-in tariffs (2/2)

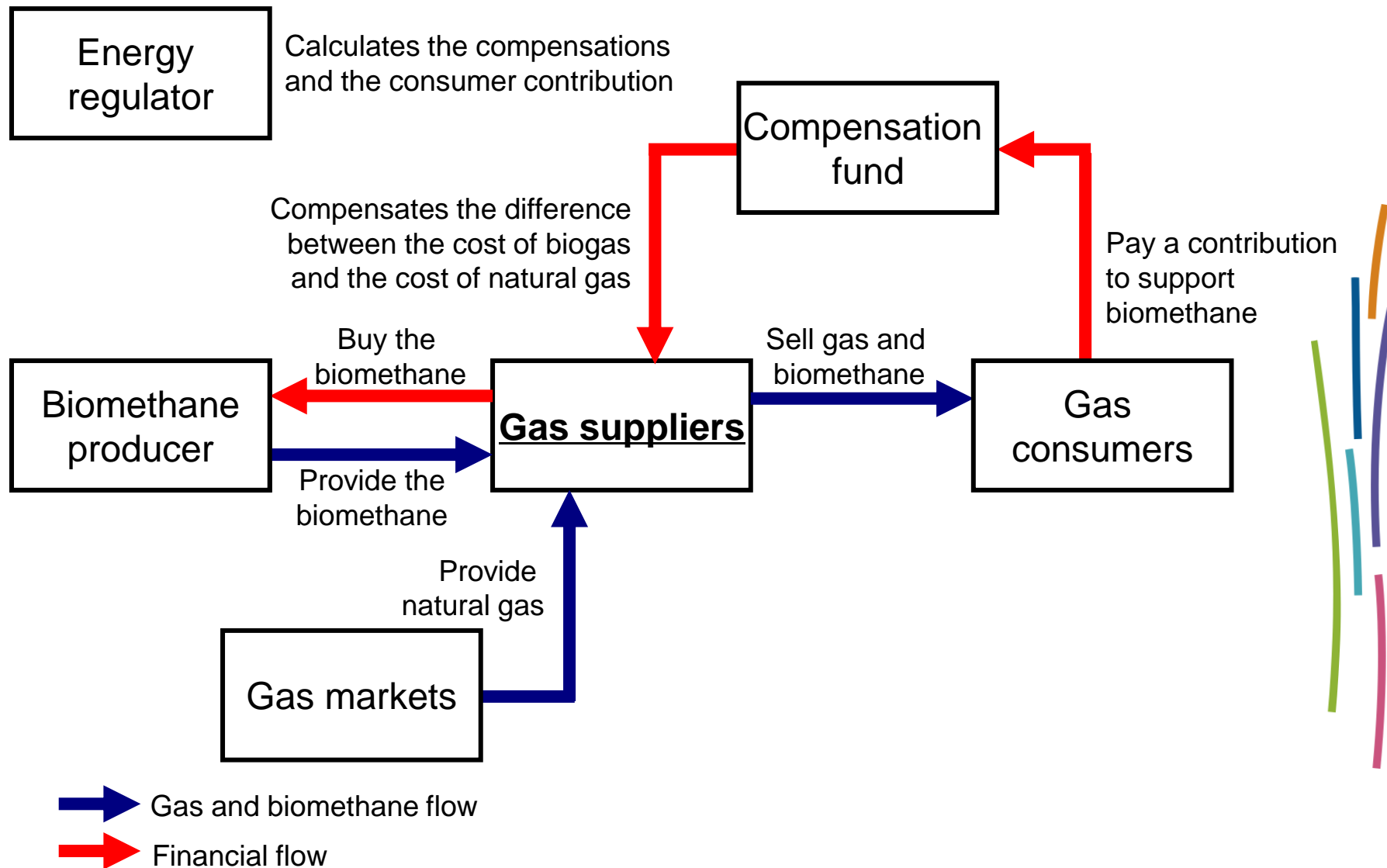
- **Biomethane tariffs were updated in June 2014 to enable wastewater treatment plant to feed-in their biogas production into the gas grid ;**
- **Biomethane tariffs can be mixed for the biogas units that would use different kind of waste type (household waste and agricultural residues, ...) ;**
- **A special tariff was introduced for any unit that would value their biogas production both through cogeneration and through the gas grid (“tarif double valorisation”) ;**
- **Finally, biomethane producers have the obligation to provide the Ministry with the relevant data regarding their costs in order to participate if necessary in the update of the tariffs.**

# The regulatory framework (simplified... 1/3)



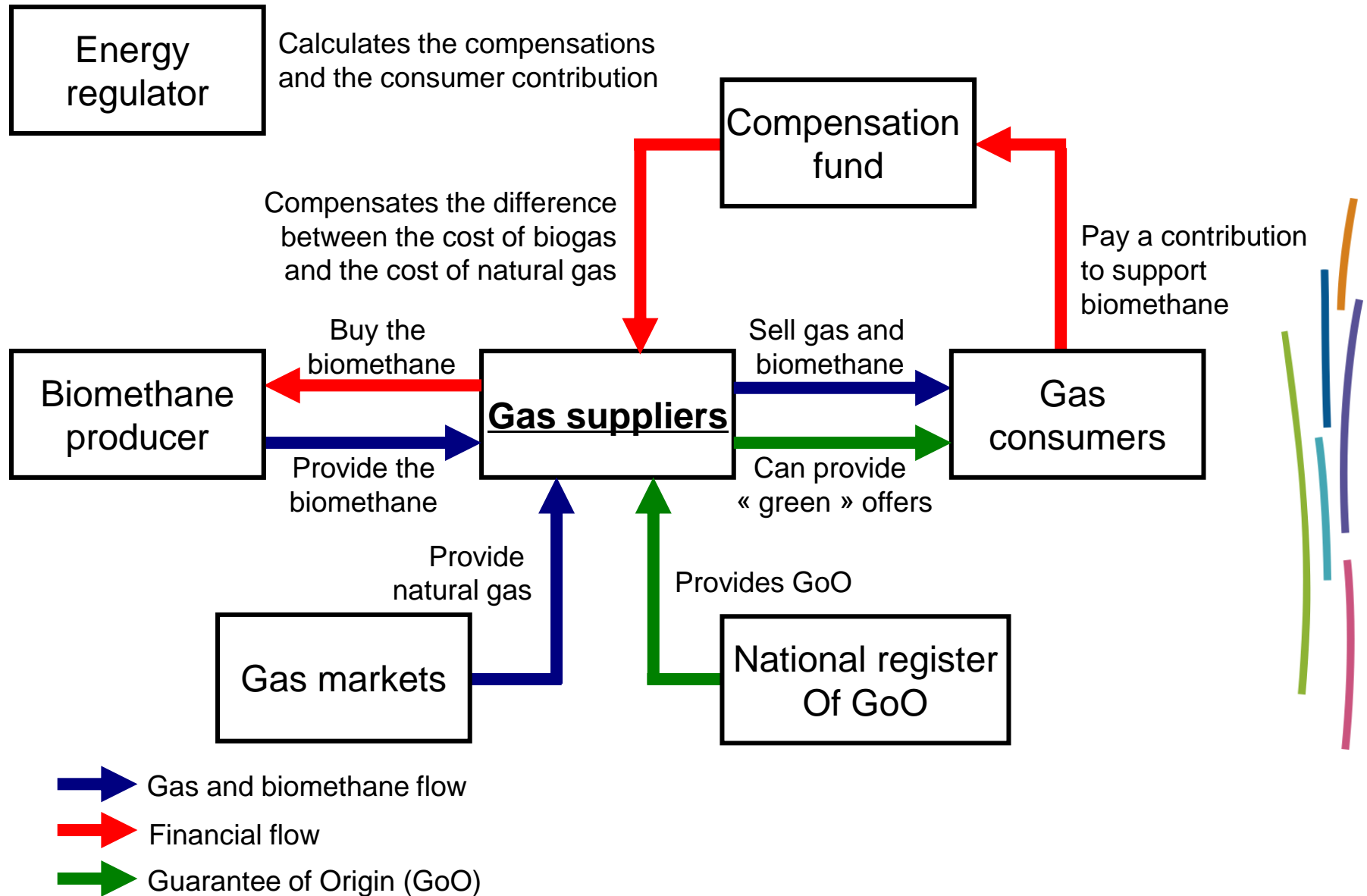
-  Gas and biomethane flow
-  Financial flow
-  Guarantee of Origin (GoO)

# The regulatory framework (simplified... 2/3)



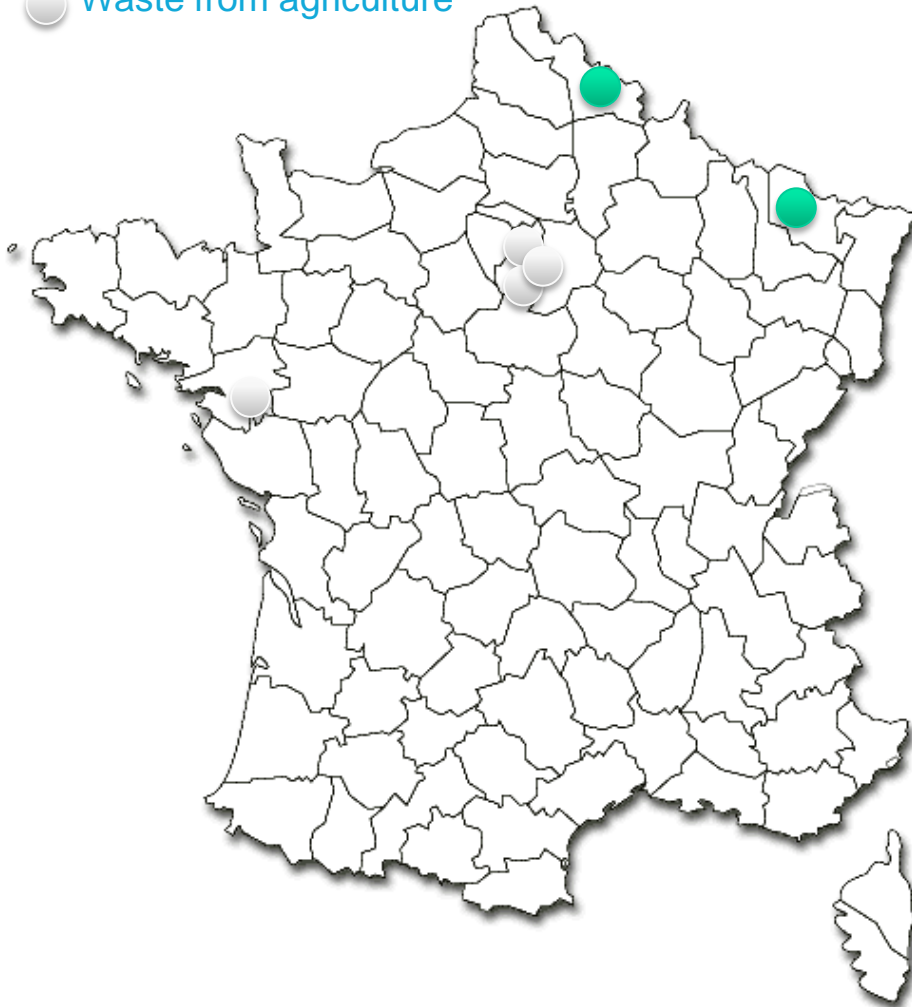


# The regulatory framework (simplified... 3/3)



# Current and future development (1/2)

- Waste of Households
- Waste from agriculture



- The regulatory framework has been introduced in November 2011 ;
- Today, 6 biomethane units are currently operating in France ;
- The annual injection volume will be more than 70 GWh in 2015 ;
- This is enough to satisfy the annual gas consumption of about 6 000 households.

# Current and future development (2/2)

## « Living » Biomethane project for GrDF



- More than 600 biomethane “living” projects are being developed in France ;
- 400 projects for the distribution grid, 200 projects for the transmission grid ;
- A specific target for biomethane production in 2030 will be set after the vote of the energy transition law.

Source : GrDF (November 2014)

# Thank you



# References

- Décret n° 2011-1594 du 21 novembre 2011 relatif aux conditions de vente du biométhane aux fournisseurs de gaz naturel
- Décret n° 2011-1597 du 21 novembre 2011 relatif aux conditions de contractualisation entre producteurs de biométhane et fournisseurs de gaz naturel
- Décret n° 2011-1596 du 21 novembre 2011 relatif aux garanties d'origine du biométhane injecté dans les réseaux de gaz naturel
- Décret n° 2011-1595 du 21 novembre 2011 relatif à la compensation des charges de service public portant sur l'achat de biométhane injecté dans les réseaux de gaz naturel
- Arrêté du 23 novembre 2011 fixant la nature des intrants dans la production de biométhane pour l'injection dans les réseaux de gaz naturel
- **Arrêté du 23 novembre 2011 fixant les conditions d'achat du biométhane injecté dans les réseaux de gaz naturel (tariff)**
- Arrêté du 23 novembre 2011 fixant la part du montant des valorisations financières des garanties d'origine venant en réduction des charges de service public portant sur l'achat de biométhane injecté dans les réseaux de gaz naturel donnant droit à compensation
- Arrêté du 23 novembre 2011 relatif aux modalités de désignation de l'acheteur de biométhane de dernier recours