

The Energy Transition for Green Growth law and its role for the French biogas

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THE ENERGY TRANSITION for GREEN GROWTH

2 new management tools

Low-carbon development strategy

The government will set, for five-year periods, emission limits (carbon budgets) which France must not exceed. To meet these limits, a low-carbon strategy will be established over three successive periods of five years. National policies for transport, urban and rural planning, energy production and agriculture will take this strategy into account.

A multi-annual energy programme

The bill merges existing programming periods in all energy sectors (electricity and heat) into a single instrument comprising several areas: improvement of energy efficiency and energy savings; security of supply; support for renewable energies; balancing energy supply and demand. The multi-annual programme will be established over two successive periods of five years.

For both these tools, the time periods will be 2015-2018, 2018-2023, 2023-2028, etc.

THE ENERGY TRANSITION for GREEN GROWTH

5 clear objectives to be achieved

The bill sets out medium and long-term objectives in order to provide a joint framework for action by citizens, businesses, regions and the government.

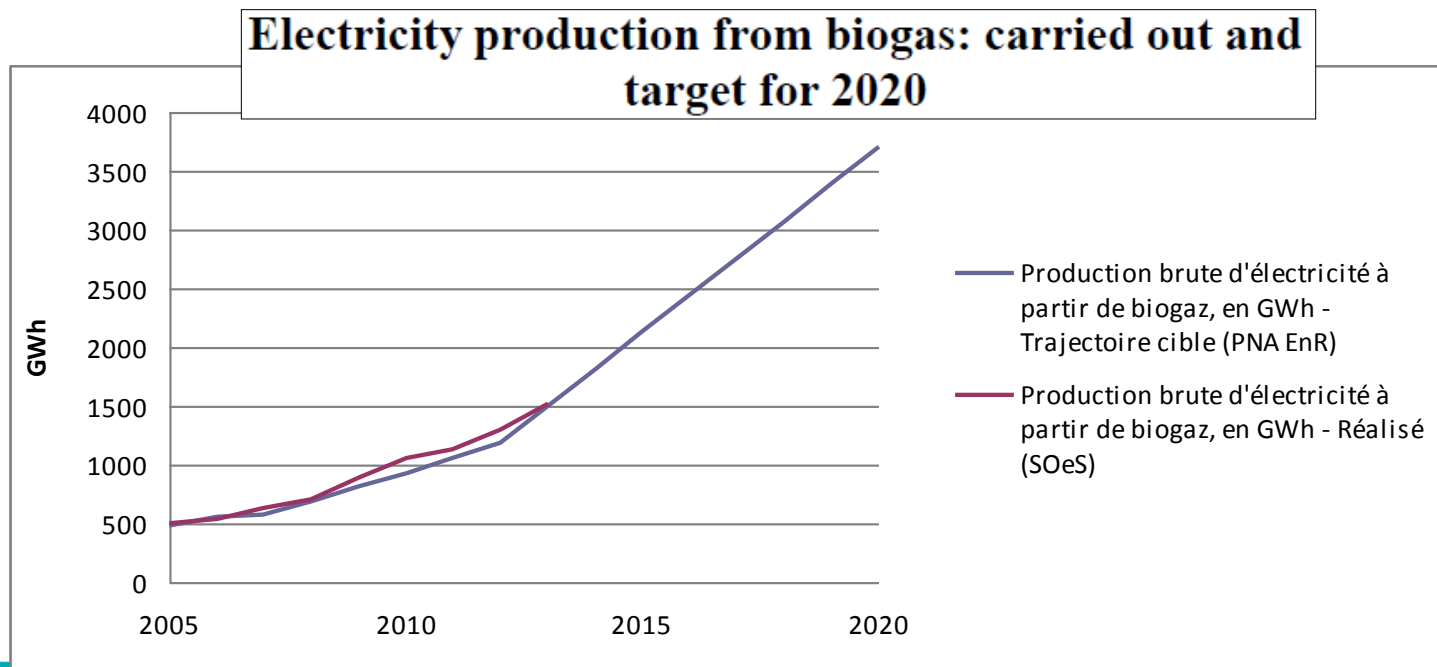
- **Reduce** our greenhouse gas emissions by 40% between 1990 and 2030 and by 75% between 1990 and 2050 (factor of 4). The path shall be set out in the carbon budgets referred to in article L. 221-5-1 of the French Environmental Code.
- **Reduce** our final energy consumption by 50% by 2050 in relation to the 2012 benchmark and increase the annual rate of reduction of final energy intensity by 2.5% between now and 2030.
- **Reduce** our final energy consumption of fossil fuels by 30% by 2030 in relation to the 2012 benchmark.
- **Bring** the proportion of renewable energies to 23% of gross final energy consumption by 2020 and to 32% of gross final energy consumption by 2030.
- **Bring** the proportion of nuclear energy used in electricity generation to 50% by 2025.

Article 2 of the bill

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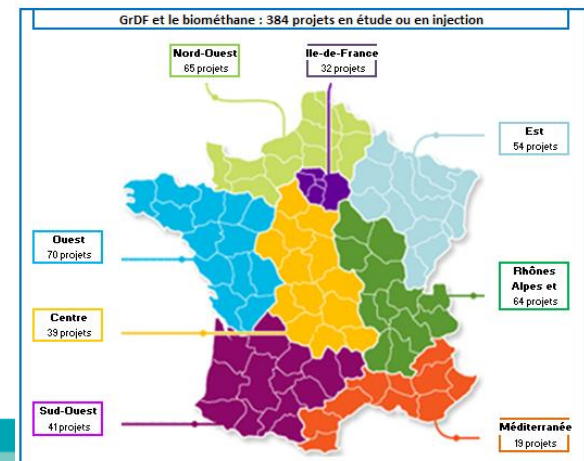
- The actual energy plan for renewable energies has set up targets for biogas cogeneration for 2020:
 - For the electricity production: 3700 GWh (625MW installed), or 2,4% of the electricity objective 2020
 - For the production of heat: 555 ktep, or 2,8% of the heat objective 2020



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- The bill sets out the major goals of the new energy model, in the form of a multi-year energy plan
- This multi-year energy plan will be established over two successive periods of five years and will set up new targets for the French biogas (electricity and heat)
- The multi-year energy plan will set up targets for the production of injected biomethane because this new sector seems promising: since 2012 the french gas grid operator has undertaken first studies for connections to the gas grid for over 300 projects

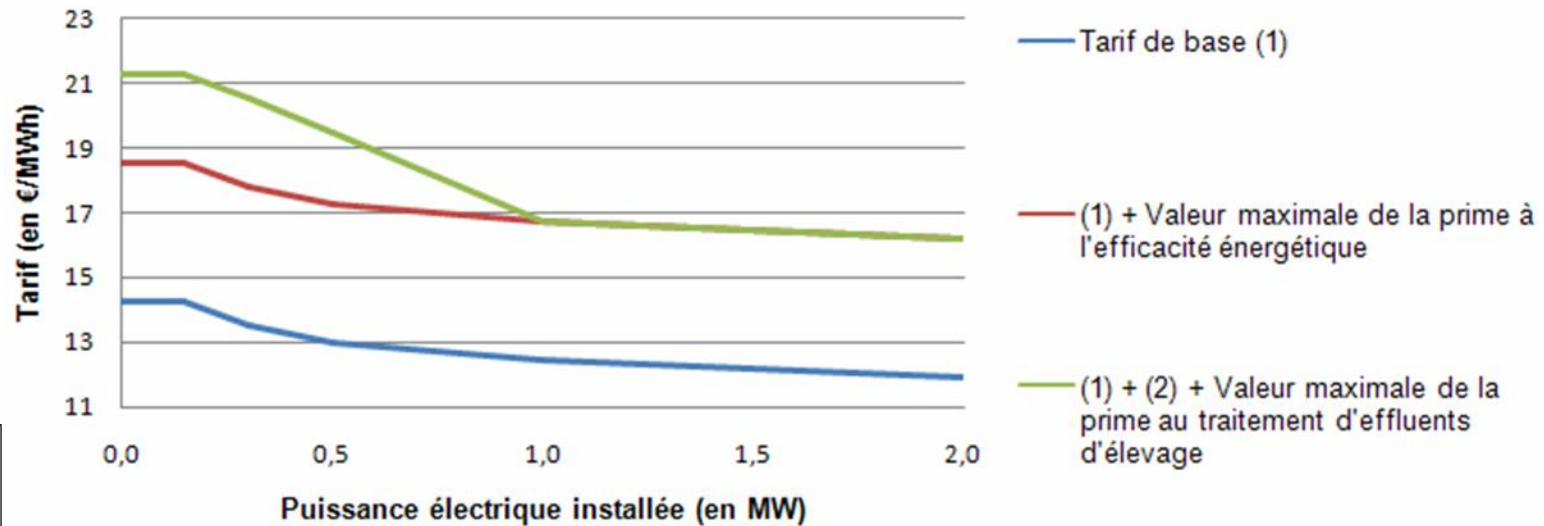


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- In view of the energy policy, the biogas plants benefit from **fixed feed-in tariffs for 15 years**

Feed-in tariff for a cogenerating equipment



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- The bill enables new support tools as **feed-in premium**, in order to integrate biogas and other mature renewable energy more effectively into the electricity market, guarantee a balance of supply and demand and reinforce visibility for investors, at the same time as guaranteeing a fair use of public funds
- **Calls for tenders** will be programmed to inject biogas into the natural gas grid and progressively increase the share of renewable gas in France



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So far, the following measures have recently been implemented by the Ministry of Ecology, Sustainable Development and Energy:

- **Simplifying measures** with a 3-year experimentation period of the unique construction permit for biogas and wind power projects in 7 regions launched in May 2014
- **Call for 1500 biogas projects over 3 years** was launched in September 2014:

<http://www.developpement-durable.gouv.fr/Appel-a-projets-pour-le.html>

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