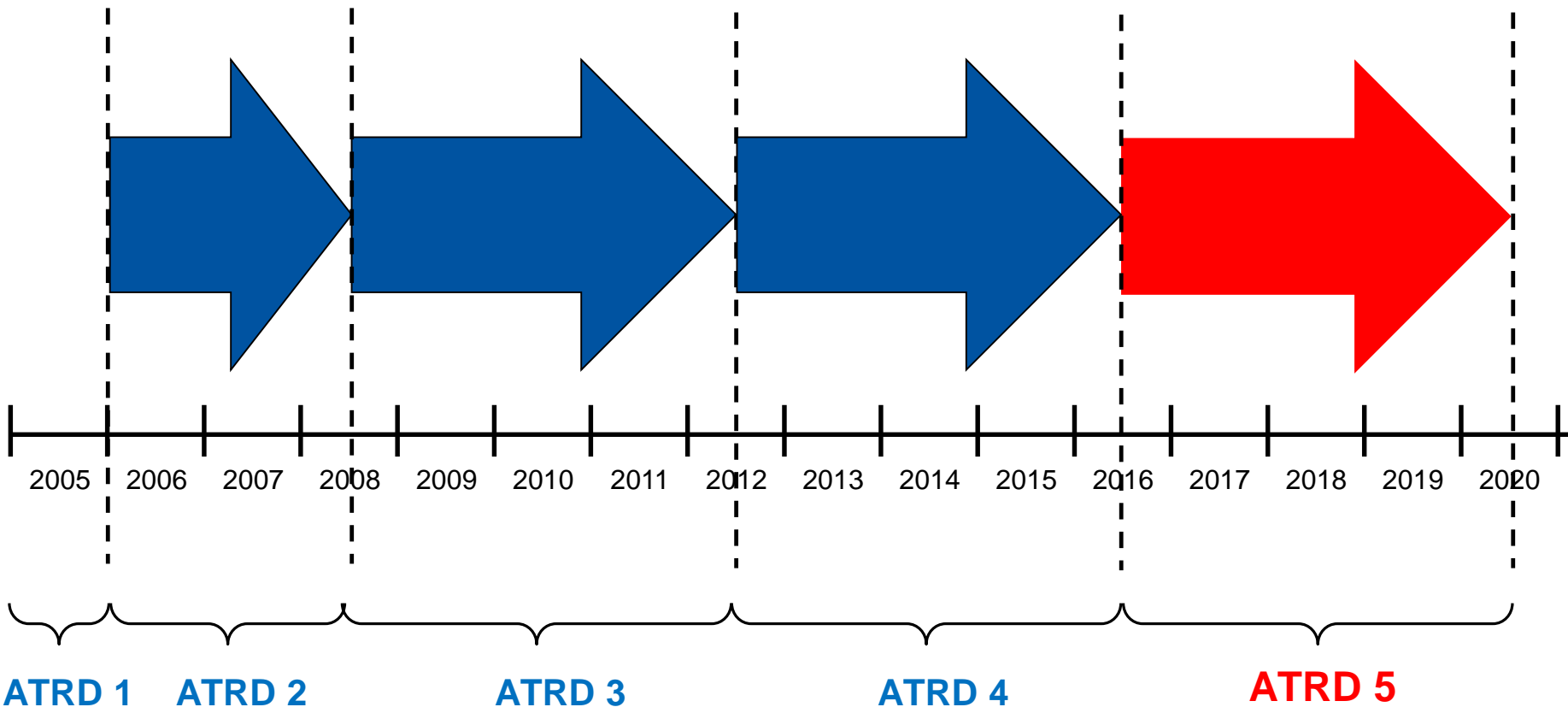


ATRD5

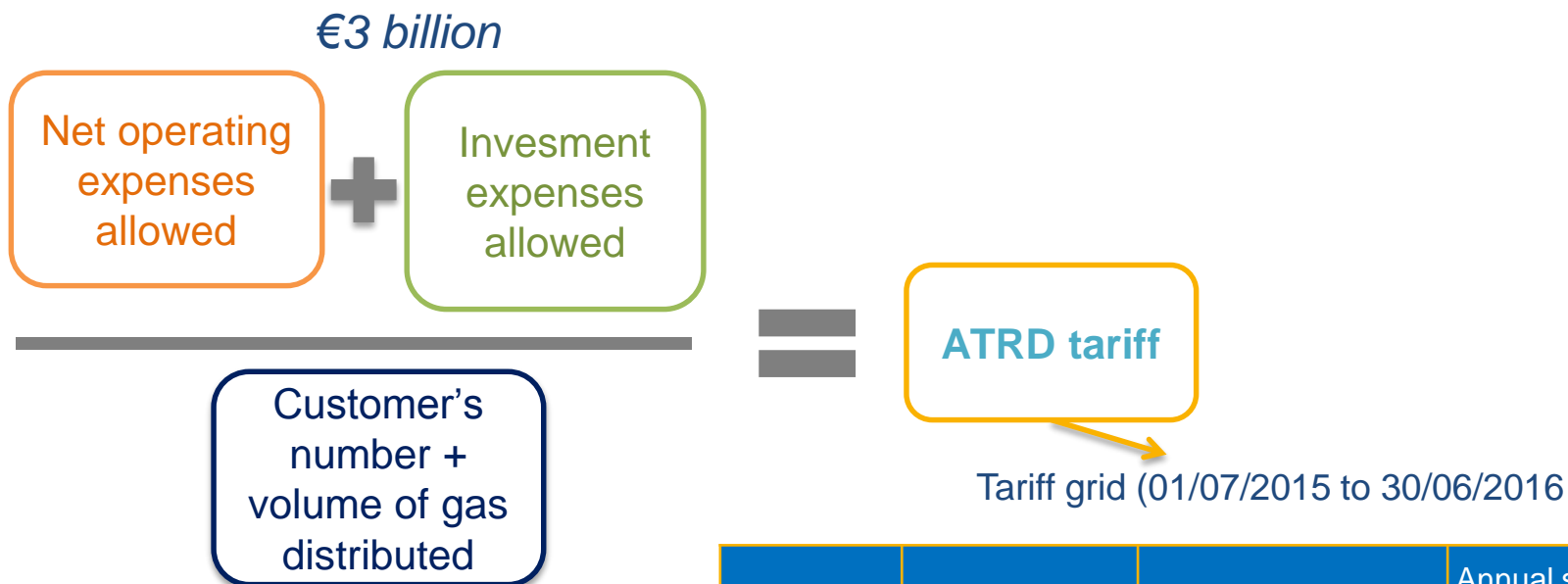
ATRD Tariff: Chronology and regulation modes



Cost plus

Increasing Incentive Regulations

What is the ATRD ?



*11 million customers
300 TWh distributed*

Rate option	Annual subscription (€)	Price in €/MWh	Annual subscription of daily capacity (€/MWh/d)
T1	34,56	27,35	
T2	133,32	8,04	
T3	757,08	5,65	
T4	15 295,56	0,79	199,08

Rate option	Annual subscription (€)	Annual subscription of daily capacity (€/MWh/d)	Annual price of gas distributed in € per meter T
TP	35 684,40	99,24	65,15

- Target productivity increase for the ATRD5 , based on maneuverable expenses (and excluding new project such as Gazpar...) and expressed in **%/year** (2014-2019).
- On the **rate wage**, the CRE defined **5%**.
- Significant **strengthening of the incentive regulation** on:
 - **Quality of Service**
 - **Unitary costs Investments**
 - **Capital expenses** excluding networks: IT, real estate, vehicle
 - Increasing the **number of consumers connected** to the grid
 - **R&D**

- **Incentive regulation on the consumer's number**: the differences between the forecasted trajectory and the number of consumers really connected to the grid at the end of the tariff 's period will lead to a **bonus/malus system**: €100 for the categories T1 and T2; 3000 for the T3 and T4.
- **The R&D budget should be of €22.4 million/year** (on average). **Annual monitoring** of the GRDF's R&D projects (already exists for ERDF and RTE) ; **return to customers the unused amounts allocated to R&D.**

Biomethane

Early-on:
advices and
counselling

Feasibility
studies

Building the
injection point

Injecting
biomethane
into the grid

Biomethane
utilisation

Feasibility studies

- Injection potential regarding consumptions on the grid
- Connection to the grid cost
- Degree of risk regarding the dependence on few consumers

Injection station

Takes care of the connection to the grid.

Owens the installation of injection and offers to the producer a service of injection for a annual cost of 67 to 74 k€ including investment, operation, maintenance

Operates additional mensual controls of gas quality (2,5 k€/control)

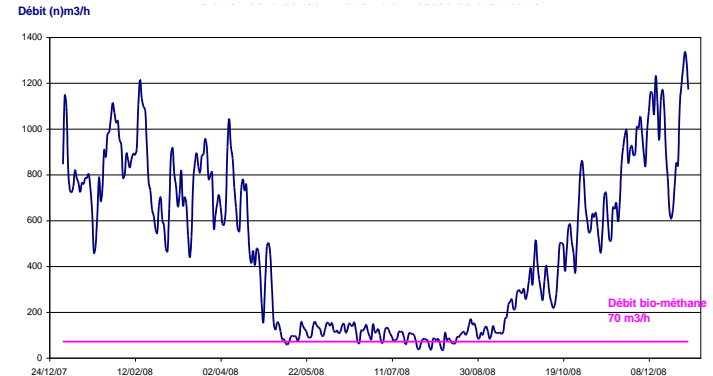
Guarantees of origins manager

GrDF = guaranties of origin registry (public service delegation) for 5 years

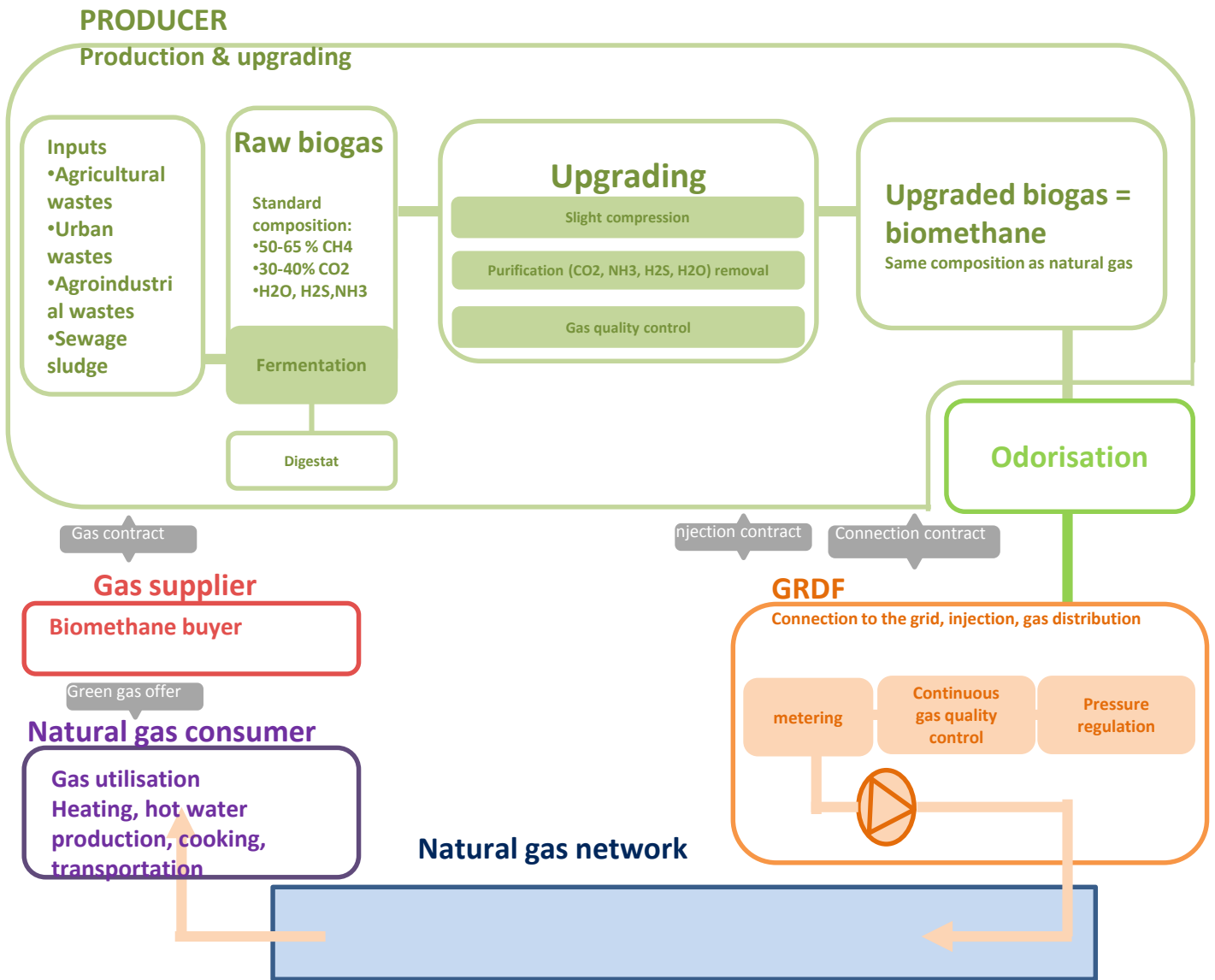
The GoO registry guaranties:

Green gas valorization registering and traceability

Conformity of biomethane way of production



Contracts set roles and responsibilities share into biomethane production



The feed-in-tariff: a tool to ensure the producer's business sustainability

Structure : Feed-in-tariff (€/MWh) :

Depends of the production plant's characteristic (size and type of production).

Favors sustainable projects : bonuses are added to the feedstocks for wastes.

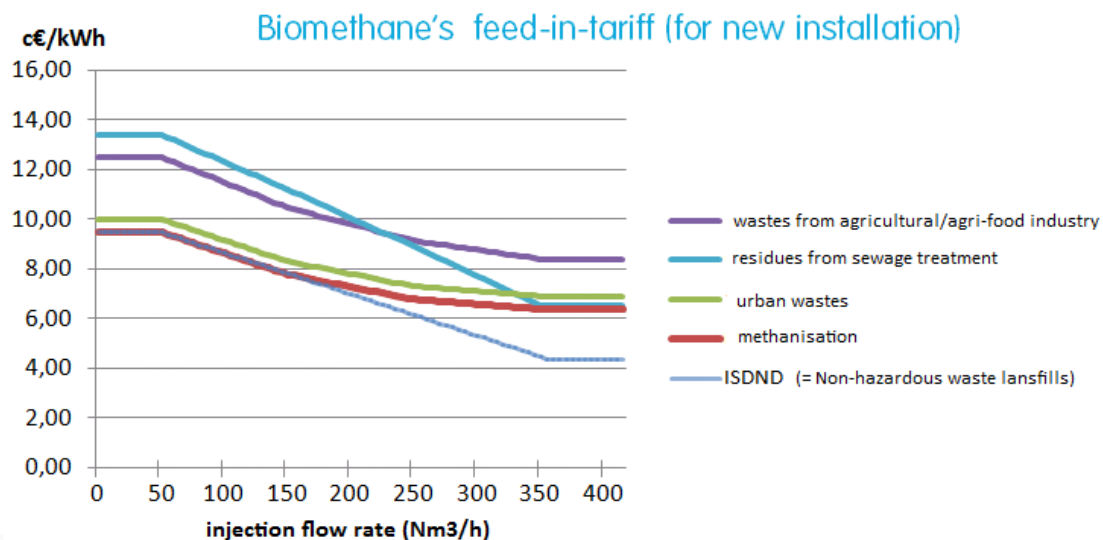
It is **modulated by the age** of the facility in order to reflect the **economic realities** of the projects.

$$\text{Feed-in-tariff} = (\text{Reference tariff} + \text{Feedstock's bonuses}) \times \text{Coefficient S}^{(t)}$$

Depends of the size and the type of production

Depends of waste's proportion in the feedstocks

Depends of the installation's age



The producer sells for 15 years all its biomethane production to a supplier, chosen in a suppliers' list held by the French Ministry of ecology, sustainable development and Energy*.