

# ***White certificates in France***

***A working solution  
(for renewable heating and cooling) ?***



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## General frame

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- ❑ **Energy savings obligations on energy suppliers**
  - electricity, natural gas, GPL, heat /cold and domestic oil for heating
  - 54TWh actualized energy savings for 2006-08
- ❑ **Energy saving actions performed by obliged or non-obliged actors(with « additionality » criteria)**
- ❑ **Certificates delivered by the administration, after the achievement of the action**
- ❑ **Possibility to buy or sell certificates below a maximum price, corresponding to the fine (2c€/kWh)**

# Obligations

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- ❑ **Annual declaration of total sales( for previous year) by every supplier**
  - upper a minimal level( 0,4TWh) except for domestic oil providers
- ❑ **Calculation of individual obligation based only on residential and tertiary sector sales**
  - for the first 3-year period
- ❑ **Actualization of the individual obligation every year**
  - for taking into account new suppliers on a recently open market

# Energy saving actions

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## ❑ Definition of standard operations frequently executed

- called « standard operation »
- Calculation of an average amount of saved kWh for every operation or package
- Public information on results about standard operations
- publication on Energy ministry websites

## ❑ Renewable energy operations

- Limited to renewable heat production in substitution to fossil fuels
- Energy savings = final energy consumption

## Certificates delivery

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- ❑ Units of certificates is kWh, for life time and actualized (4%)
- ❑ Delivery on regional level by the services of the Ministry of Economy and Industry
- ❑ Minimum amount of 1 GWh for asking certificates
  - Possibility to join in little actions under a sole caller
- ❑ Immaterial by inscription on a national register
- ❑ Information by the register holder about certificates accounts for facilitating transactions beetween actors
  - but no formal market

## *Issues for the application to RHC*

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- ❑ **The system is primarily designed for diffuse potentials of energy savings in residential and tertiary sectors**
  - particularly adapted for large campaigns for the diffusion of SHW or wood boilers, heat pumps ...
  - should it work with large biomass boilers, geothermal district heating ...?
- ❑ **RHC equipments are generally more expensive than traditional energy savings equipments**
  - The white certificates contribution is not necessarily enough for triggering the investment
- ❑ **The market shouldn't be very fluid in the beginning**
  - own actions of the obliged operators
  - direct partnerships for securing the certificates
  - aggregation funds (CDC) with a possibility to sell certificates in the end