



**MINISTÈRE
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ÉCOLOGIQUE**

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OFATE CONFERENCE ABOUT ENERGY EFFICIENCY IN THE INDUSTRY

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Laurent CADIOU

DGEC - energy efficiency branch

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NATIONAL LOW CARBON STRATEGY

In order to achieve carbon neutrality in 2050, the SNBC forecasts a significant drop in industry emissions (-35% in 2030 and -81% in 2050 compared to 2015).

The main levers to be activated to achieve this objective are :

- A significant improvement in energy efficiency to reduce total energy consumption.
- A total decarbonisation of the energy mix in 2050, thanks in particular to a strong increase in the rate of electrification of industrial processes.
- A reduction in non-energy emissions from industry, with the improvement of existing processes, the implementation of breakthrough technologies and the replacement of HFCs by refrigerants with low warming power.
- An improvement in economical efficiency through eco-design, recycling, etc.

REGULATORY PROVISIONS

ENERGY AUDIT OF LARGE COMPANIES

- Article 8 Directive 2012/27
- Articles L.233-1 et seq., R.233-1 et seq. of the Energy Code
- Method in accordance with EN 16247
- Audit exemption for ISO 50001 certified companies

COST-BENEFIT STUDY TO RECOVER FATAL HEAT (FACILITIES > 20 MWth)

- Article 14-5 Directive 2012/27
- As part of the regime for installations classified for environmental protection in the Environment Code

MINIMUM YIELDS AND PERIODIC CONTROL OF BOILERS FROM 400 kWth TO 20 MWth

- Art R.224-20 et seq. of the Environment Code

WHITE CERTIFICATES

- Obligation on energy suppliers, based on their energy sales
- Measured with a number of white certificates
- Fulfilled by the corresponding number of white certificates vs. financial penalty (2 c€ /missing WC)
- Received by an energy supplier or an eligible actor for implementing energy saving measures towards energy consumers, in all sectors (residential, tertiary, agriculture, **industry**, transports, etc.)
- May be freely traded on the national registry
- Final energy savings CUMulated over the lifespan of this action and annually discounted with a 4 % ACTualization rate : 1 WC = 1 kWh CUMAC

WHITE CERTIFICATES

- **Standardized actions** for frequent actions, worksheets conceived by stakeholders and approved by administration, minimum quality criteria for products or contractors (should be beyond legislation), provides standardized amount of white certificates for the action :

Ex in the industry : Electronic speed variation on a asynchronous motor, heat recovery on compressors...

- **Specific actions** : Case-by-case treatment (standardized operations not applicable, generally in the industry)

Between 2015 and 2018, the industry represented 23 % of total WC issued

- **Contribution to information / formation / innovation programs**

WHITE CERTIFICATES

TRAINING PROGRAMMES

(assumption of teaching costs)

PROREFEI - Training of energy referents in companies in the industrial sector
(covering of teaching costs)

INVEEST - Training of bank account managers and financial affairs departments of companies in the industry sector in energy efficiency/decarbonation investment evaluation methods to accelerate the financing of energy efficiency projects in the industry

HEAT FUND (ADEME) and INDUSTRY

- Investment aid appraised at the level of the regional directorates of ADEME and, if necessary, national calls for proposals for projects that exceed a certain size.
 - Biomass Energy Company (BCIAT) calls for projects for biomass installations by companies larger than 12,000 MWh/year
 - Support for fatal heat recovery projects
 - Call for projects for large solar thermal surfaces for collective housing, industry and the tertiary and agricultural sectors
 - Support for deep geothermal projects
 - CSR calls for projects

DECARBONATION OF THE INDUSTRY



~ 1.2 billion euros of budget granted over the period 2020-2022 for **3 new systems**

Two investment grants :

- Investment aid for energy efficiency improvement projects in industry

For projects representing an investment of more than €3 million, a first call for projects is conducted by ADEME which will close on 20 October 2020.

<https://www.entreprises.gouv.fr/files/files/secteurs-d-activite/industrie/decarbonation/appel-a-projets-efficacite-energetique-procedes-et-utilites-dans-l-industrie.pdf>

In addition to this call, for smaller projects, a counter grant type support scheme will be distributed by the service and payment agency (ASP), based on a list of eligible equipment.

- Investment aid for the development of industrial processes such as electrification.

A call for expressions of interest for process evolution projects (electrification of processes and utilities/new material uses, etc.) is launched with a view to contractualisations as of 2020 and to prepare a call for projects in 2021.

<https://www.entreprises.gouv.fr/files/files/secteurs-d-activite/industrie/decarbonation/ami-decarbonation-industrie.pdf>

DECARBONATION OF THE INDUSTRY



An operating aid for low carbon heat. The aim is to provide long-term support for low carbon heat projects in order to compensate for the low price of fossil fuels.

- Operating aid for biomass heat production

ADEME has published a call for projects to be closed on 20 October 2020 providing additional operating aid for the supply of heat to manufacturing industry. The aim is to relaunch this call for projects for 2021 and 2022. This aid complements the investment aid already available under the Heat Fund.

(https://www.entreprises.gouv.fr/files/files/secteurs-d-activite/industrie/decarbonation/appele_a_projets_biomasse_chaleur_industrie_agriculture_tertiaire-bciat.pdf)

ACCELERATING DECARBONATION



- Decarbonated supply strategy (taking stock of the industrial decarbonation ecosystem)
- Renewable or low carbon hydrogen strategy
- CCS
- Future Investments Programme (PIA 4)
- ...

Thank you for your attention