

Reduce the carbon footprint of energy consumption



The urgency of reducing the industries carbon footprint

In this ecological transition context, it becomes crucial to reduce significantly the greenhouse gas emissions from industries.

One of the levers to reach this objective is to use electricity when it is less carbon intensive.

However, it is difficult to adapt the consumption of industrial processes to the variability of the carbon intensity of electricity. This can vary by as much as double in just a few hours.

Consuming electricity when there is a lot of wind (wind) and sun (photovoltaic) will therefore potentially have a very different impact on the carbon footprint of the industrial process.

Why is this a challenge ?

- The industrial automation as it exists today is not flexible enough to efficiently answer to this challenge
- The carbon footprint reduction is not the only objective. The cost & quality also needs to be taken into account by the regulation system.



CO2 INTENSITY PRODUCED IN FRANCE

Consume less and better

The Purecontrol solution allows manufacturers to optimize their energy consumption, in terms of costs and carbon footprint.



Energy efficiency
(limit over-quality)



Equipments energy efficiency



Energy costs reduction



Carbon footprint reduction

How?

The Purecontrol allows the regulation of the system by taking into account simultaneously an unlimited number of parameters and objectives (energy costs reduction and carbon footprint). By combining artificial intelligence and automation, it makes it easier for manufacturers to implement optimized operations to consume energy when it less carbon intensive.



Prioritize periods when electricity is less carbon intensive

Multi-objectives control system :

The solution modelize the parameters of interest of the process and identify the best operations strategies to simultaneously achieve the following objectives:



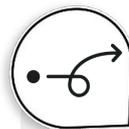
Respect of quality standards



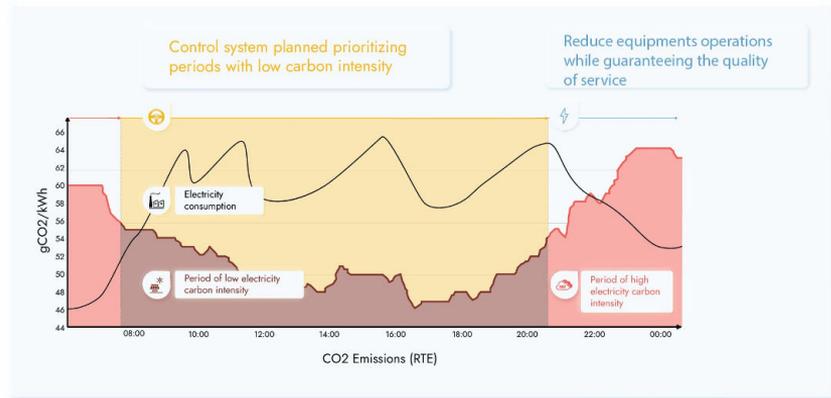
Cost reduction



Carbon footprint reduction



Identify the best strategy



PRIORITIZE PERIODS WHEN ELECTRICITY IS LESS CARBON INTENSIVE

The control solution will be able to prioritize periods with low electricity carbon intensity, and adapt the equipments operations without any impact on the quality of service.

Purecontrol : simplifying operational optimization

Purecontrol develops real-time and predictive control solutions. They allow manufacturers, water and renewable energy players to make processes more reliable, to optimize energy and operational efficiency while reducing the carbon footprint.

Purecontrol solutions are easily integrated and control your industrial installations optimally by adjusting to a complex and dynamic environment.

[> Learn more](#)

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