

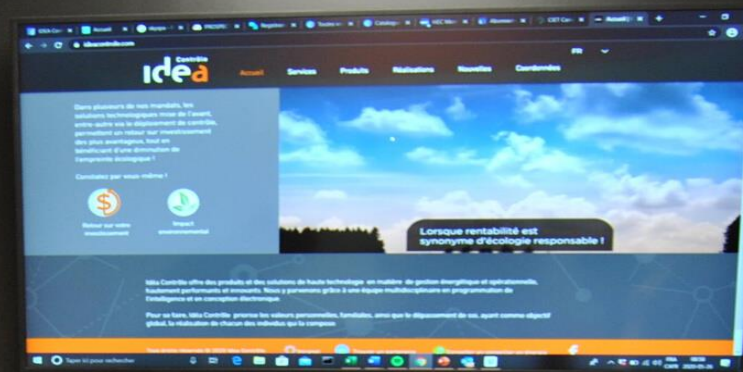


## Strategy for optimizing your energy transition in an industrial environment

- Synapse
- Axor
- Gamma

Martin Tremblay  
Business Development Director





1

Quebec equipment manufacturer in energy management since 2009: Synapse; Gamma; Elopsys.

2

Mission: Energy automation to eliminate tons of CO2.  
+ 50,000 tonnes

3

Expertise recognized in Canada and Norway in data acquisition and electrical peak management.

4

It's 48 quality jobs in the Saguenay/Lac-St-Jean region.





Expertise acquired and developed to respond to different consumer profiles



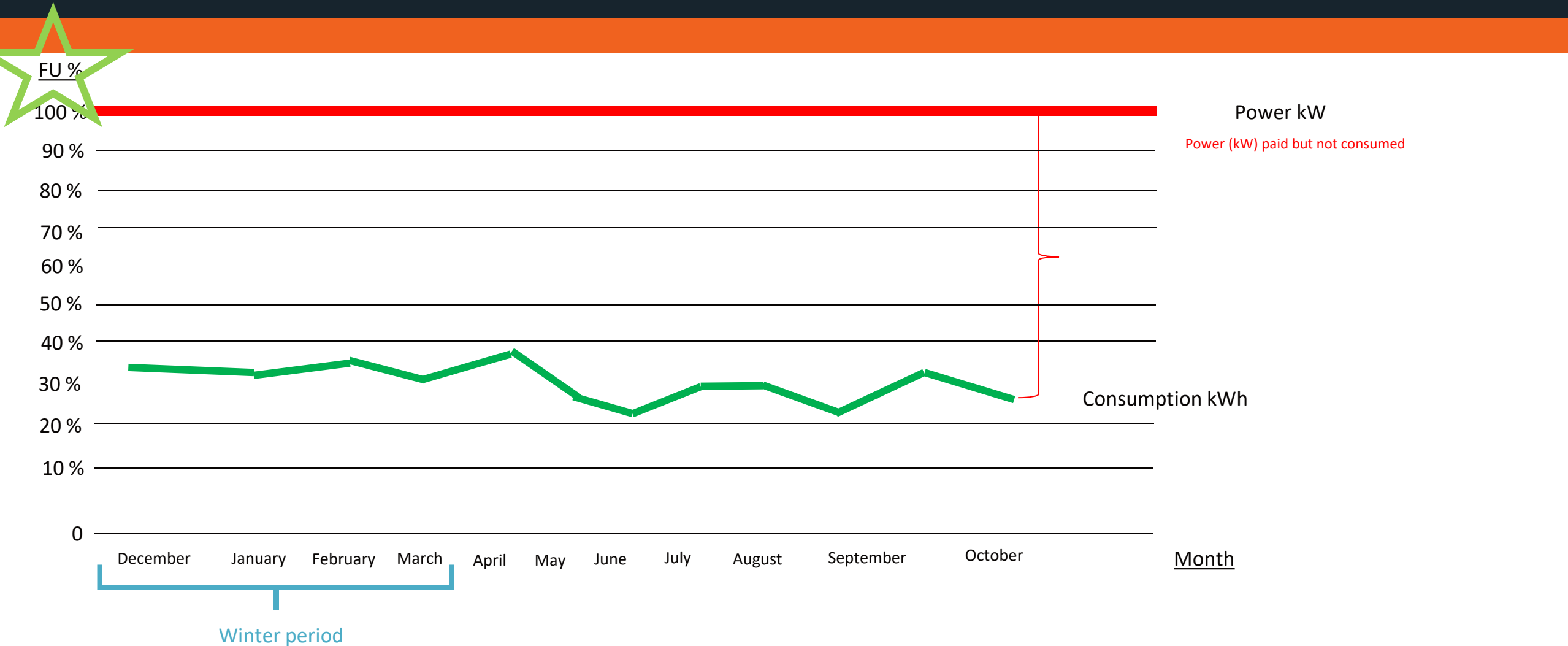


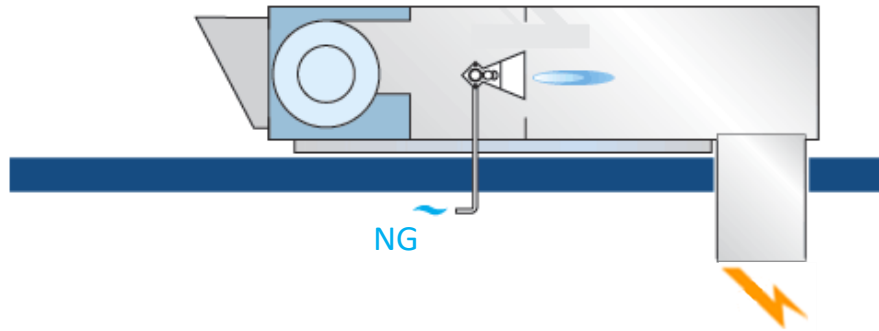
# Synapse<sup>MC</sup>

---

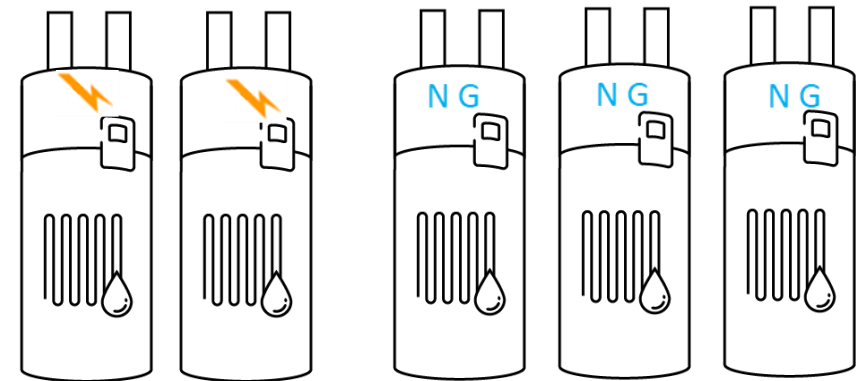


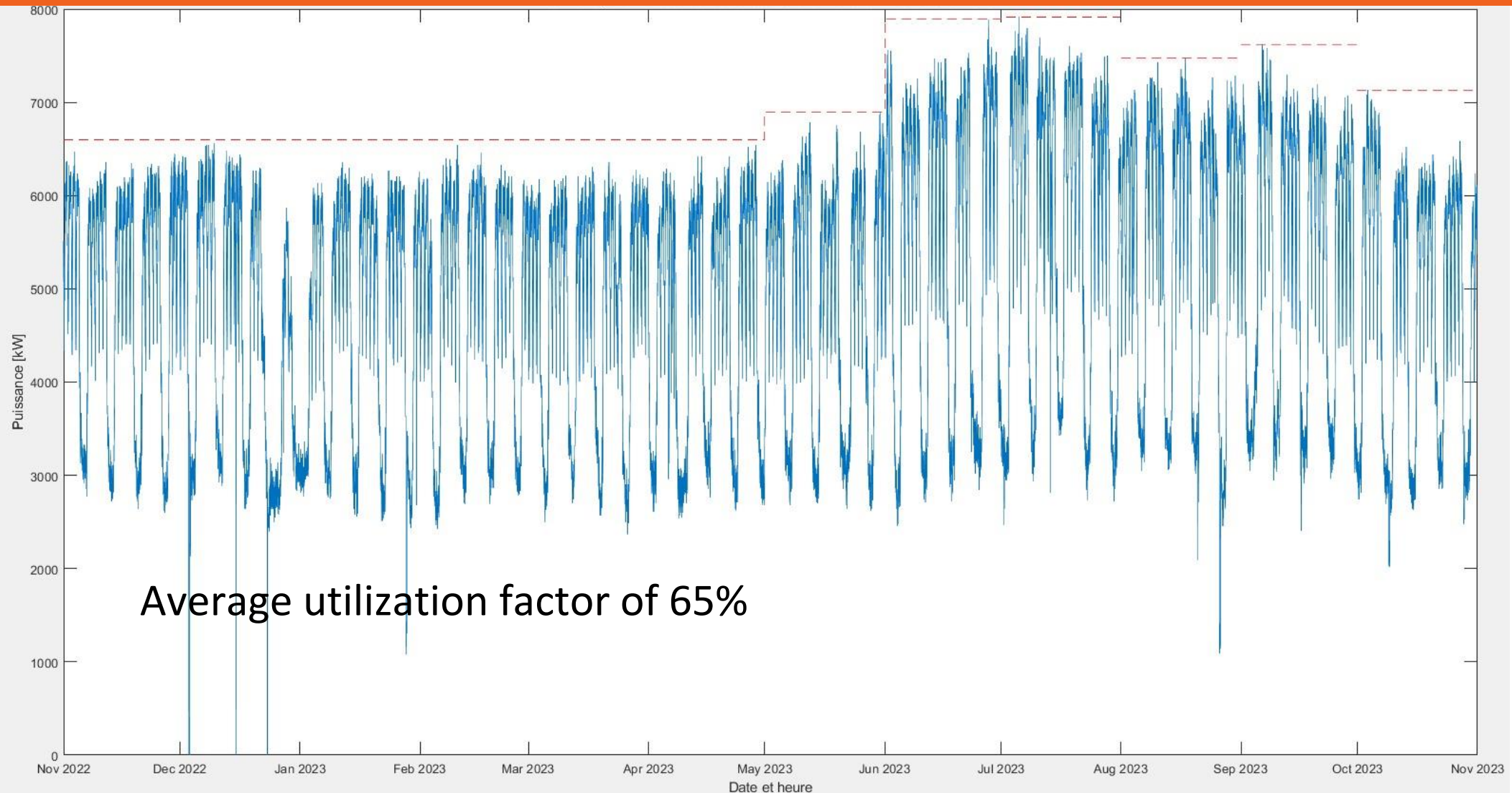
- Manage the power demand instantly from all infrastructures via **wireless communications**;
- Management of **all energy sources** to maximize their use at the right time;
- Possibility of participating in the different **Hydro-Québec** rates in support of the network;
- Allows a project in **energy transition** while remaining competitive;
- 100% made in our workshops in Saguenay!



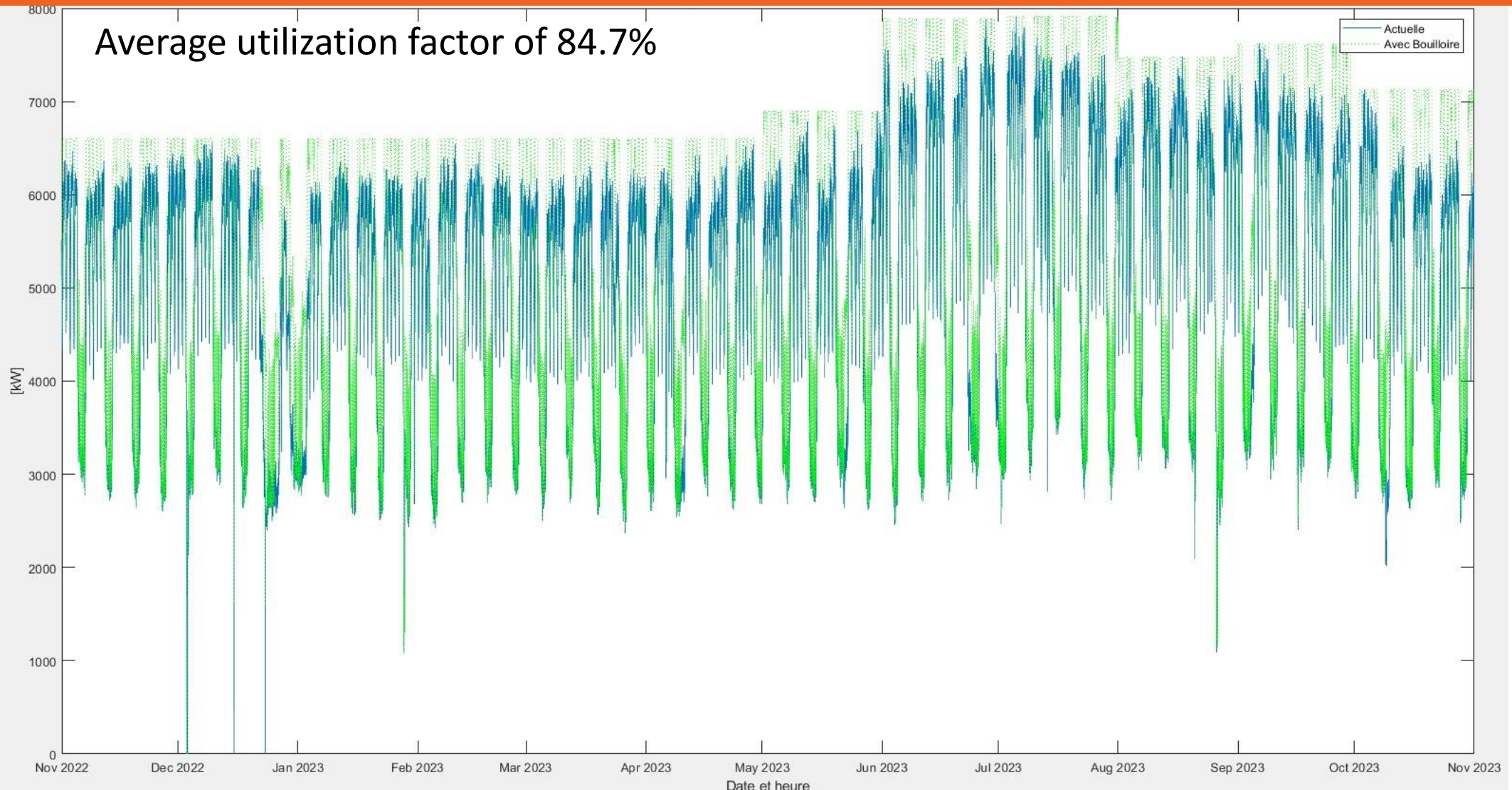


NG



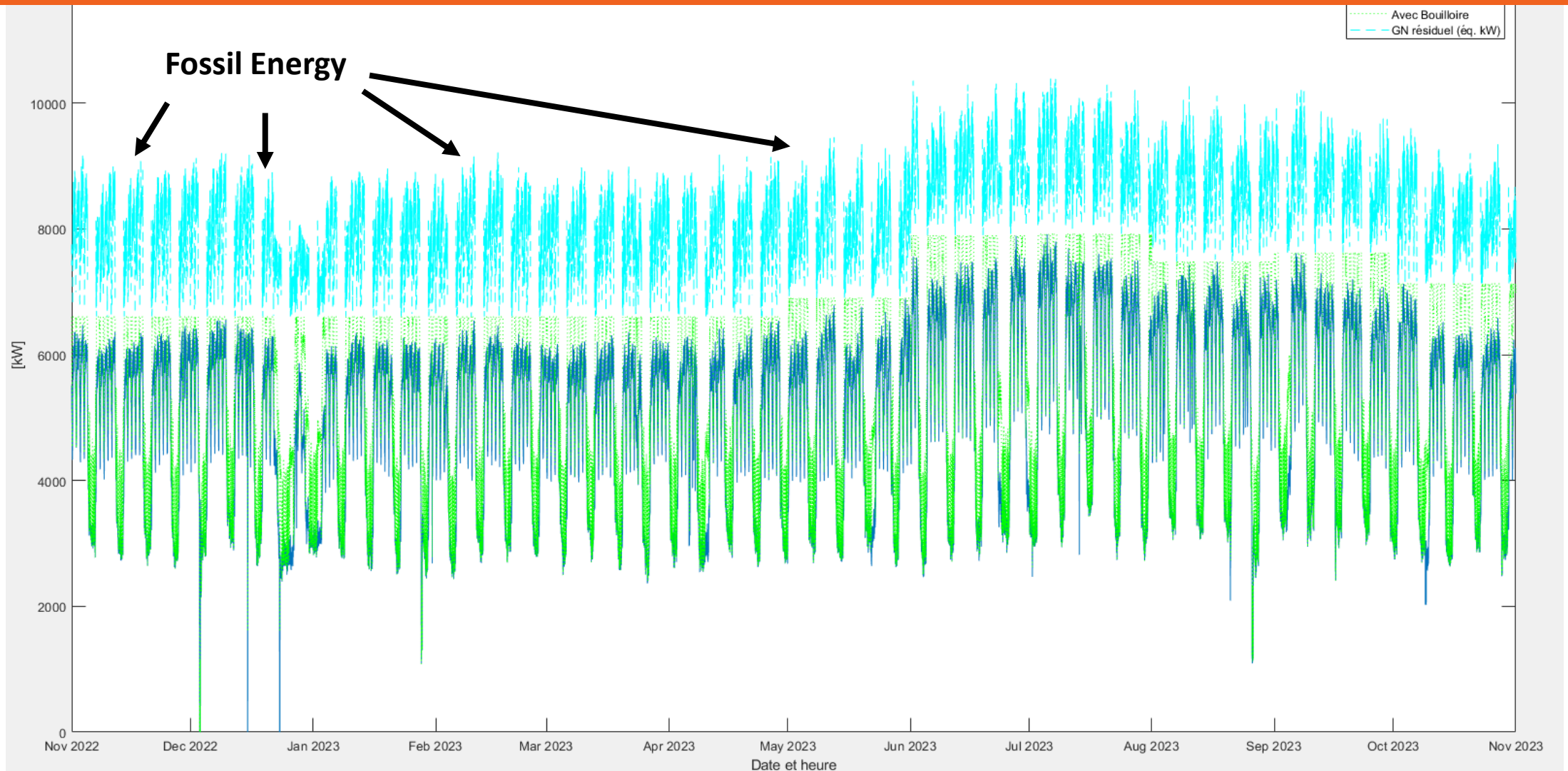








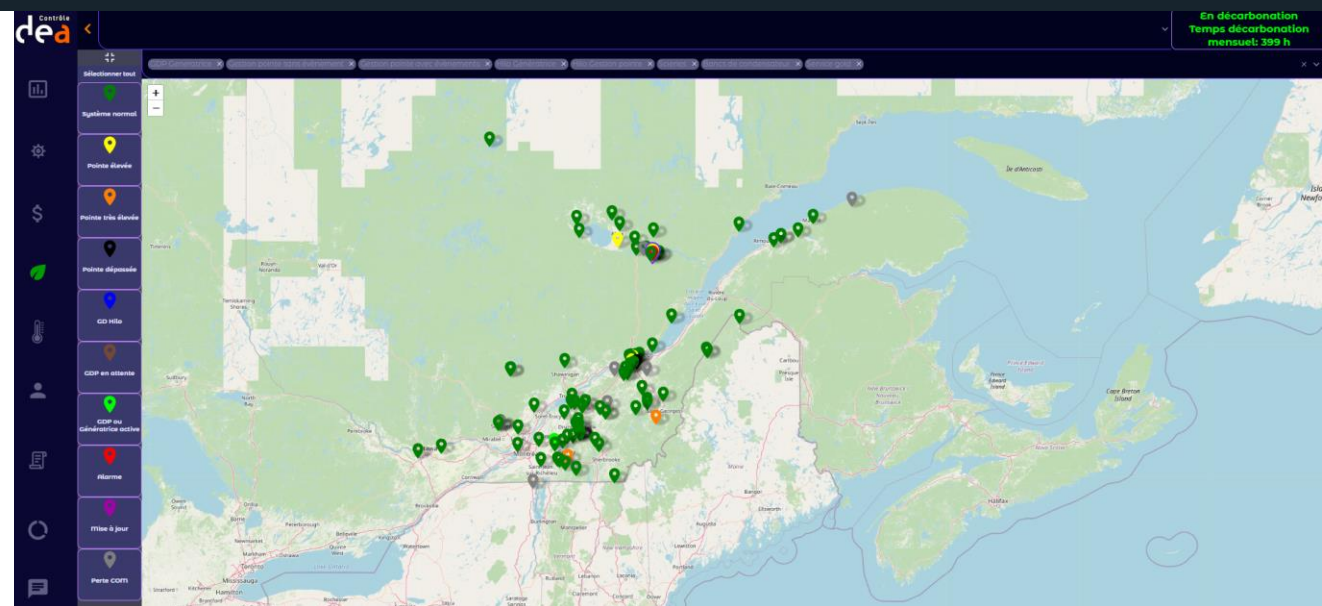
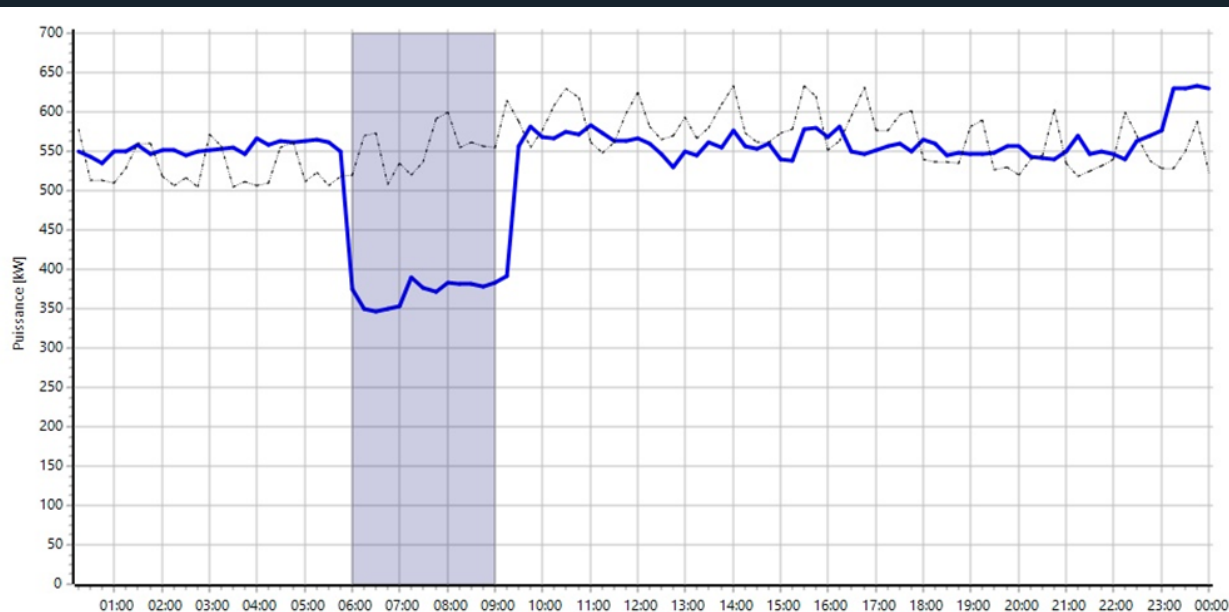
# Use fossil energy for more energy above recorded power demand



## Management of grid power demand

Synapse enables the implementation of load shedding strategy during a load shedding request initiated by the electricity provider.

Installing a 1 MW electrical energy storage system has the potential to double load shedding capacities without reducing production.



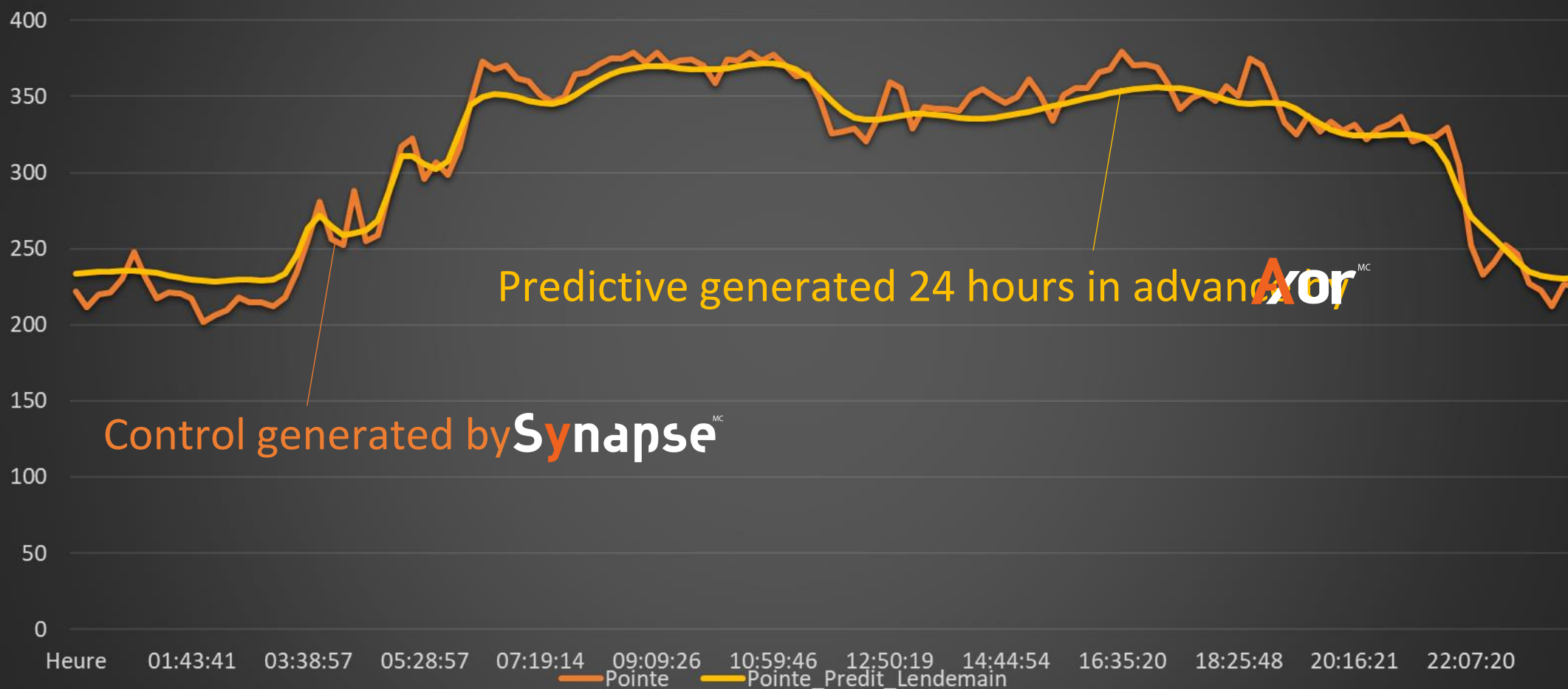


# Axor<sup>MC</sup>

- Monitors, analyzes and controls the use of your available energy types;
- Essential tool to guide building managers for the energy transition;
- Platform accessible at all times on your computer and mobile
- [www.Ideacontrole.com](http://www.Ideacontrole.com)
- Accelerator for the energy transition in Canada and elsewhere;
- 100% of the design is done in our workshops in Canada!



## 2023 : Integrating artificial intelligence to Synapse



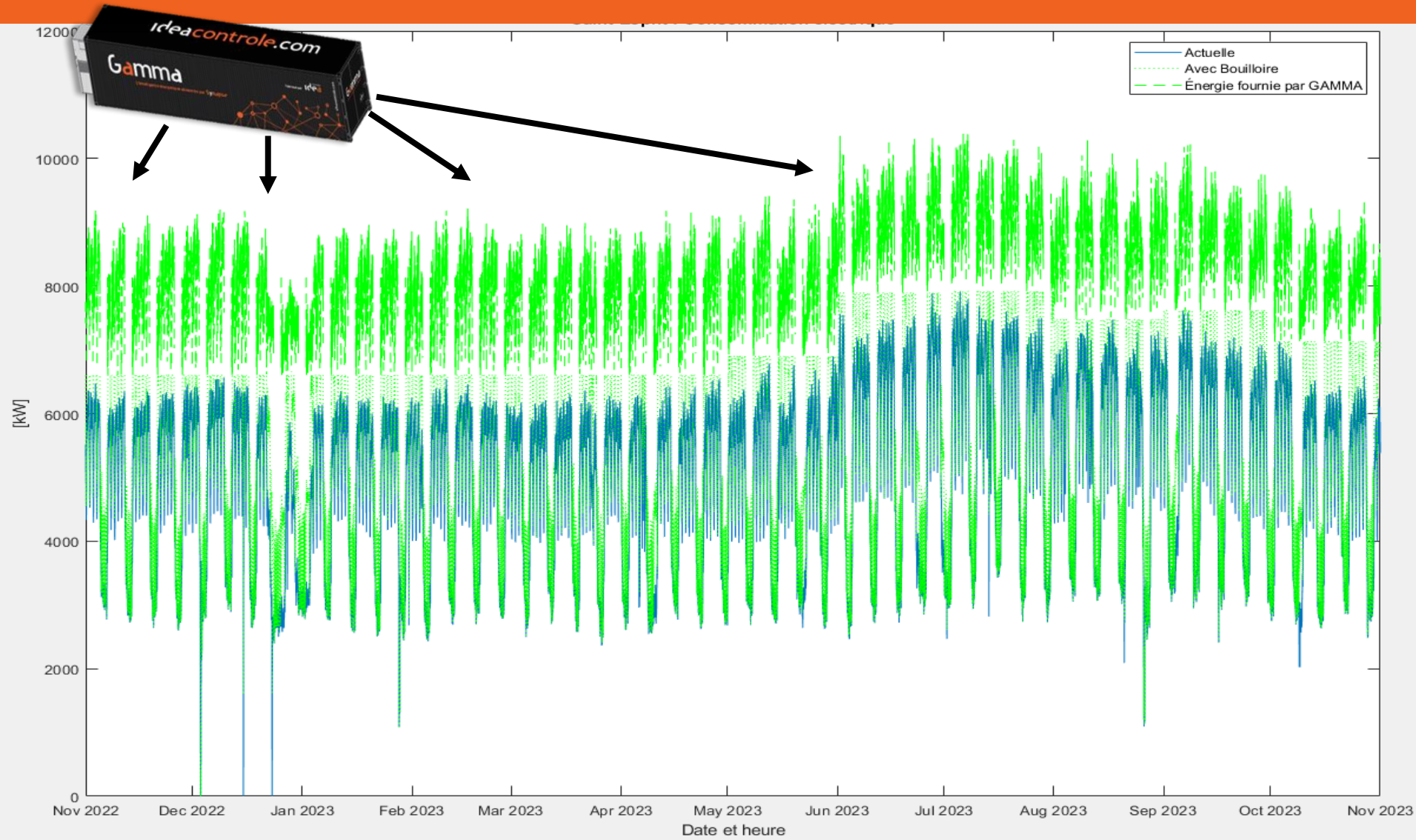


# Gamma<sup>MC</sup>

## - Energy storage

Contrôle  
**idea**





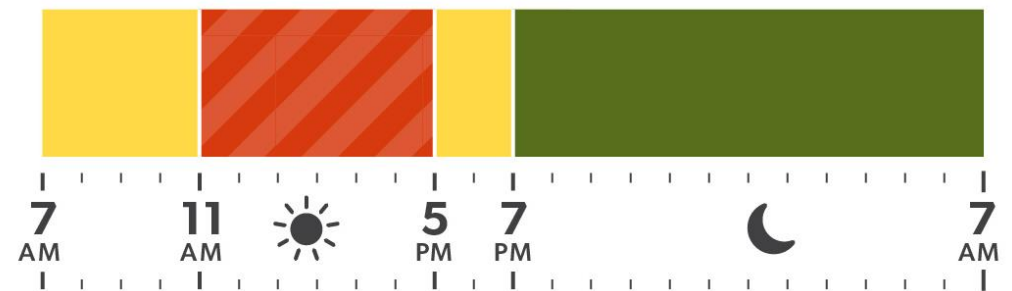


 **TOU On-Peak**  
XX.X ¢/kWh

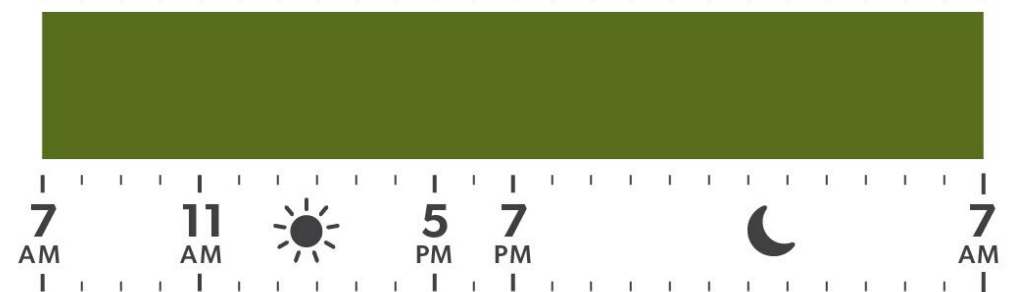
 **TOU Mid-Peak**  
XX.X ¢/kWh

 **TOU Off-Peak**  
XX.X ¢/kWh

## Weekday Summer (May 1 to October 31)



## Weekend & Statutory Holidays (ALL YEAR)



## Weekday Winter (November 1 to April 30)



- Complementarity with the algorithms integrated into our Synapse system to eliminate uncontrolled power demands on the **client side**;
- Use of **Axor artificial intelligence** to optimize energy management;
- Enables the **energy transition** of all processes using fossil energy;
- GAMMA has the ability to help the internal grid by correcting several **power quality** issues and making corrections, such as overvoltages, undervoltages, power factor, harmonic distortion ...;
- During a **power outage**, GAMMA can keep process equipment powered which is critical for the quality of the product or the risk it represents during a uncontrolled production shutdown;



## **RENEWABLE ENERGY (Wind, solar photovoltaic, tidal, turbine...)**

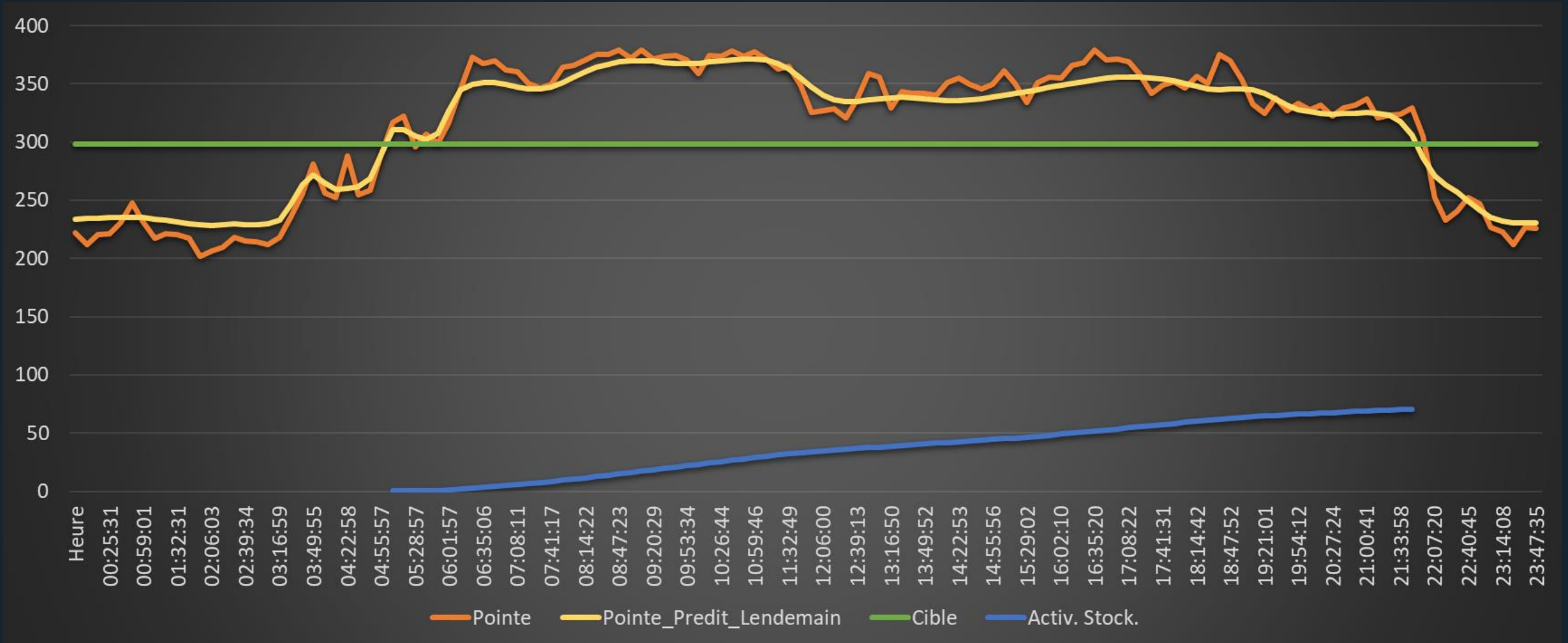
Energy storage has the ability to store the intermittently produced energy from renewable energy sources.

Energy storage adds value by enabling the creation of energy autonomy in case of outage, such as 'microgrids', thereby securing critical loads.

Energy storage simplifies the implementation of renewable energy solutions by providing a ready connection to receive and inject real-time power into the factory's grid without requiring new infrastructure."



# Use of artificial intelligence and GAMMA energy storage





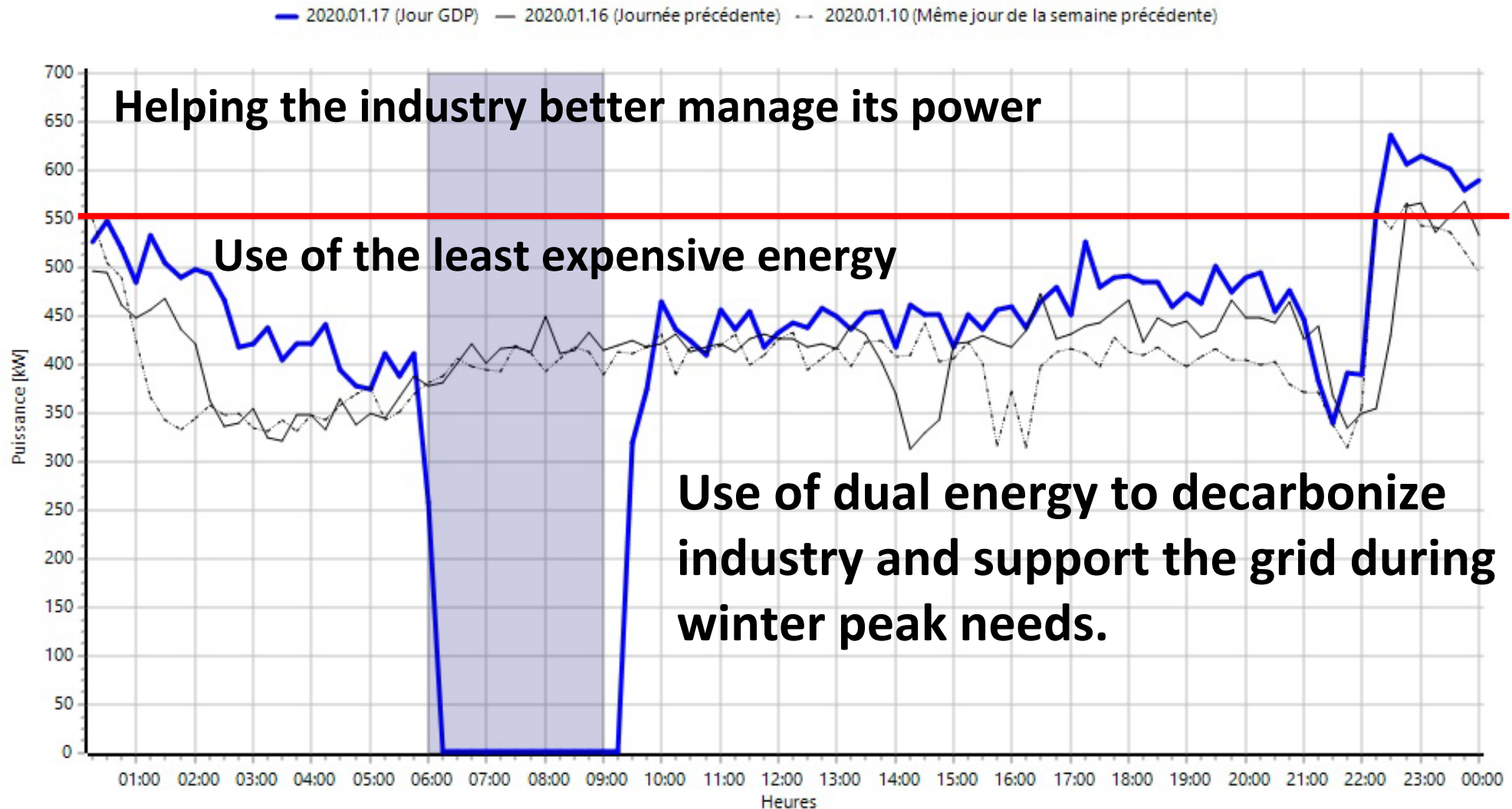
There is significant interest from creditors in diversifying their portfolio towards renewable energy solutions.

Financing based on savings, with no initial outlay, for an electrical energy storage project:

- Spread over up to a maximum of 15 years;

Leasing type financing: Option for payments with a portion of the savings generated

## Interesting gain for the customer and for the grid





We would like to thank you for listening!

Questions?

Thank you !