

# Eiffage Énergie Systèmes

## Hypervision for energy efficiency



Eiffage Énergie Systèmes specializes in the design, operation, and maintenance of electrical, industrial, and HVAC engineering systems and equipment. As a major player in the energy sector, the company has adopted the Panorama platform to streamline the centralised supervision of 186 energy production sites. To achieve this ambitious goal, Eiffage Énergie Systèmes has established two Hypervision centres in the southwest of France. The first centre is dedicated to real-time supervision of renewable energy sources, while the second centre focuses on controlling cogeneration with natural gas. This strategic approach enables Eiffage Énergie Systèmes to offer its clients comprehensive support in the production of sustainable and eco-friendly energy solutions, making a significant contribution to the green energy sector.



### in figures

#### In 2023 :

- 143 cogeneration sites
- 34 solar power stations
- 9 hydroelectric power stations
- + 10 upcoming renewable energy plants
  - 7 photovoltaic
  - 3 hydroelectric



### Centralizing data with the Panorama Hypervision system

Eiffage Énergie Systèmes has made a strategic choice by implementing the Panorama Hypervision system to centralise diverse data originating from field equipment, various business systems, and local supervision systems. This **unified Hypervision** system streamlines the monitoring of remote sites and enhances their **energy efficiency**. From the central command and control centre, operators have access to a comprehensive display, including:

- an overview of cogeneration, hydroelectric, and solar operations,
- dedicated overviews for each of the three distinct activities,
- detailed insights into each energy production centre, including historical data, alarm specifics, links to local supervision systems, and maintenance actions with connections to CMMS.





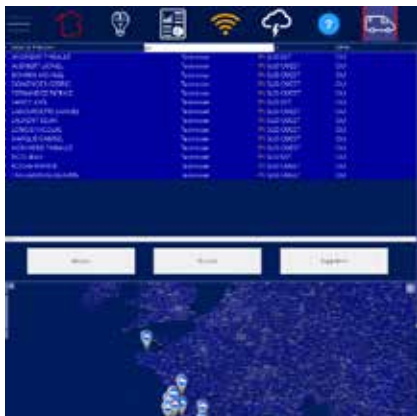
## Interoperable systems integration

Eiffage Énergie Systèmes opted for the Panorama platform to integrate its diverse array of business tools into a unified Hypervision tool, granting a comprehensive 360° perspective on all essential systems for energy production:

- real-time weather and flood alerts,
- irradiance data and wind monitoring,
- Enedis meter data, enabling anomaly detection and in-depth analysis,
- CMMS for efficient maintenance action tracking,
- geolocation and field team intervention coordination,
- local supervision systems.



Monitoring energy production by unit



Geolocation of field teams

## Enhancing performance through reactivity

The Panorama software stands as a **genuine decision-making tool**, offering tangible technical and operational support to elevate team responsiveness. It accomplishes this by providing:

- real-time management of interventions,
- accurate geolocation of maintenance technicians,
- geo-fencing for system access/privilege control,
- streamlined reporting on maintenance operations,
- continuous real-time performance monitoring,
- use of an AI solution to generate forecast data.

The Hypervision Centre serves as a pivotal hub for controlling these tools, consolidating operations into a **single interface** for the benefit of both Eiffage Énergie Systèmes and its energy producer customers.

## An adaptable application

The establishment of two Hypervision centres has empowered Eiffage Énergie Systèmes to effectively manage and control its energy production facilities, aligning with the evolving energy transition needs of its clients. Gabriel Duboy, the head of the Hypervision unit, highlights the **scalability of Panorama**, enabling ongoing exploration of new business applications. For instance, plans include implementing redundancy systems for low-frequency communication in case of MQTT communication loss. Additionally, teams will benefit from an **automated and user-friendly reporting tool** for consistent performance analysis across production plants. As Gabriel Duboy notes, *"Hypervision will expand as per our evolving requirements."*