



Use your flexibility in support
of your energy challenges thanks
to the **OPTIFLEX** solution of Haulogy

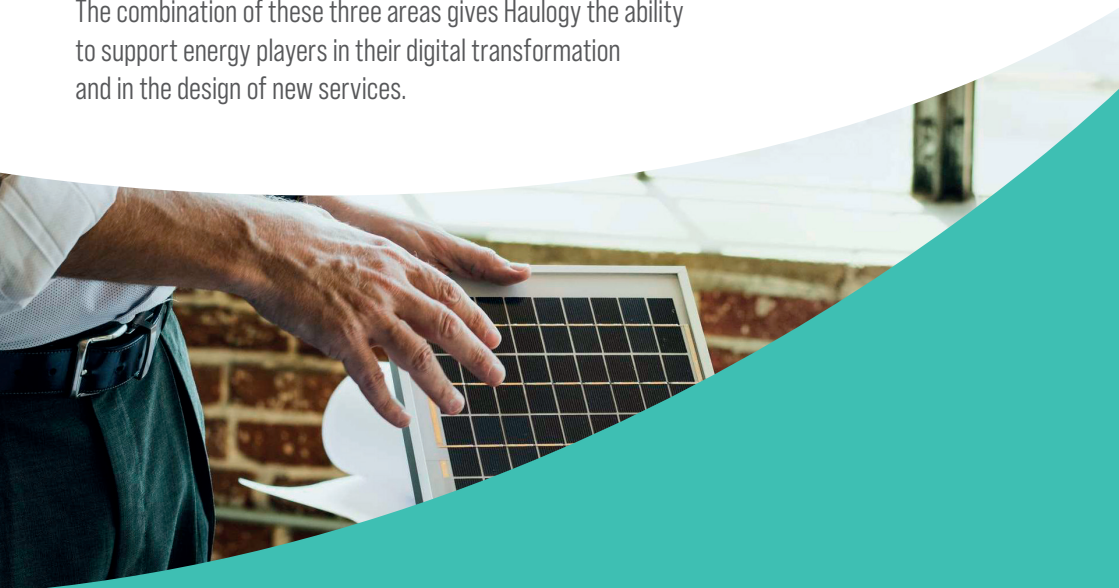


SOFTWARE PUBLISHER
FOR THE ENERGY SECTOR

Discover the **Haulogy** expertise

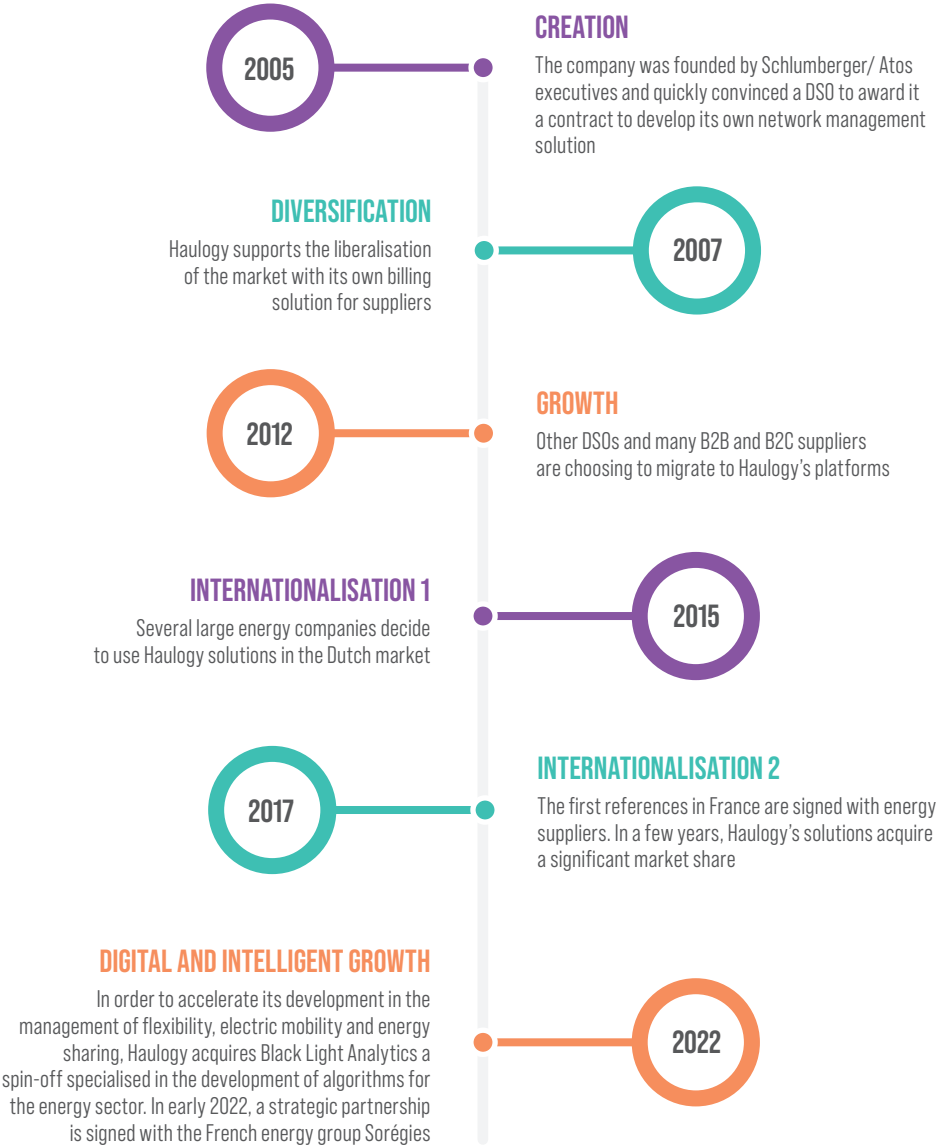
As an IT company developing its own software, Haulogy has acquired a know-how at the crossroads of three areas of expertise: a recognised experience in **software engineering**, in-depth knowledge of the **energy markets** and skills in machine learning and **applied mathematics**.

The combination of these three areas gives Haulogy the ability to support energy players in their digital transformation and in the design of new services.



Haulogy tells in 2022 160 FTE's offering a **diversified** portfolio of solutions and services for all players in the energy sector, regardless of their size.

Thanks to constant investments in Research and Development, Haulogy has developed a **complete offer** to support the energy transition of its customers and to help them mastering their costs: flexibility, consumption monitoring, electric mobility (V2G, V2H, V2B), energy sharing. The company is present in Poitiers, Paris, Nivelles and Liège.



The beginning of a **partnership**



Haulogy, a software publisher and IT platform operator for the world of energy, and the Sorégies Group, an energy company producing, distributing and marketing local renewable energies in the heart of the territories, announce a strategic partnership to create together an European **leader in intelligent solutions**, dedicated to the digital transformation of energy players and the energy transition.

Haulogy and the Sorégies Group join forces and become partners for a **better future**



Our objectives

By 2030, the world of energy will face many challenges:

- ✓ Boosting renewable energy production and following the trajectory of carbon neutrality
- ✓ Increasingly complex management of networks integrating multiple players
- ✓ Decentralisation of the energy system
- ✓ Regulatory and market environment changes
- ✓ Technological breakthroughs

Determined to meet these challenges, Haulogy and the Soregies Group are combining their expertise by offering **innovative business platforms** for the management of distribution network, production and storage, flexibility services, energy supply, as well as for new models such as local energy loops, collective self-consumption and energy communities.

These offers, which are modular and interoperable in order to integrate into the customer ecosystem, **facilitate** the harmonisation of market standards and **optimise** data & costs of the operators.

Flexibility as a solution to **master** your energy objectives

The growing share of intermittent generation sources in the energy production mix leads to **an increasingly high variability** of market prices. Differences of several hundred euros can be observed in the course of a single day.

This variability of prices on the energy markets will gradually be imposed on all consumers who are at the end of the chain. Dynamically adapting your consumption profile (load shifting, for example) is an answer to limit the impact on your energy bill. In this context, having controllable capacity (or flexibility) is an important asset.

In order to meet these challenges, Haulogy offers consultancy services and solutions to activate/deactivate this flexibility at the benefit of B2B consumers, Balance Responsible Parties, Energy Retailers, Aggregators.



Introduction to **OPTIFLEX**

OPTIFLEX is a software based on Artificial Intelligence whose objective is to optimise your flexibility in order to:

- ✓ Master the costs of your energy bill by increasing your self-consumption, benefiting from a dynamic tariff policy, adapting your load to your connection contract (peak shaving).
- ✓ Extract revenues from your steerable assets: selling of your flex to the DSO, to your Balance Responsible Party or on energy markets.
- ✓ Reduce your CO2 emission by synchronising your consumption with your local renewable production or sourcing contract.

Thanks to powerful **forecasting and optimisation algorithms**, OPTIFLEX selects the best option in line with your strategy. The choices made by OPTIFLEX are translated into **commands** sent to your steerable assets.



OPTIFLEX components

01

Automatic learning

Automatic learning of a demand, production and price forecasting model for each steerable asset. Active energy management means optimising charging and discharging periods in favourable price periods while respecting technical constraints.



03

Flex planning

Calculation of a flexibility control plan that minimises costs and respects the constraints of the supervised processes.

02

Prediction

Forecast of demand, production and assets costs up to several days in advance.

04

Real Time Control

Continuous optimization of control signals of steerable devices based on the latest available measurements.

Haulogy products and services

Our teams can support you along the entire value chain of flexibility.

- ✓ Energy/electricity balance of the site(s): local production profile, storage capacity, profile of the steerable assets and capacity to modify this profile
- ✓ Identification of flexibility potential taking into account consumption constraints (e.g. priority given to the consumption of local production), and FLEX constraints (process limits),...
- ✓ Generation of a flex offer: flexibility profile, price and duration of the offer
- ✓ Optimisation of flex offer in line with your strategy and taking into account consumption, production and prices predictions
- ✓ Generation of flex order directly sent to your steerable assets and continuous monitoring



They have decided to **trust** us

Here are some references making use of Haulogy expertise in flexibility.

SWDE (Société Wallonne des Eaux) is an utility company distributing water to more than 2,5 millions citizens. The management of the SWDE has expressed its willingness to reduce its carbon footprint by increasing the share of renewable energy (1 MW /year), **improving the efficiency** (1% reduction/year) and, in the same time, keep the customer invoice under control.

The solution is to make use of the flexibility of water reservoirs steering the high-pressure pumps in order to synchronise their use with market prices and availability of local power production. The major challenge was to align with stricter : limit the frequency of start-stop of the pumps and max & min height of water reservoirs. Those constraints and SWDE strategic choices have been integrated in the OPTIFLEX solution of Haulogy., leading to a **10-15% savings** on energy costs.

One of the world's largest mining companies wants to implement a Renewable Energy Management Platform with several objectives: (i) 100% renewable energy supply for mining operations while securing a stable power supply, (ii) energy cost optimisation, and (iii) integration of energy demand flexibility. Haulogy is involved in defining the scope and functionalities of this platform, as well as the architecture, design and operational model. OPTIFLEX will be used at a pilot site.



Want to know more ?

Contact us !

In addition to its OPTIFLEX software platform Haulogy offers a large range of **solutions**.

For local distribution companies/distribution network operators, energy suppliers, flexibility management via Virtual Power Plant and Energy Management System, optimisation of electricity consumption. For more information on our offers and services, please visit our website www.haulogy.net or contact us:

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