

# ThirdBrain

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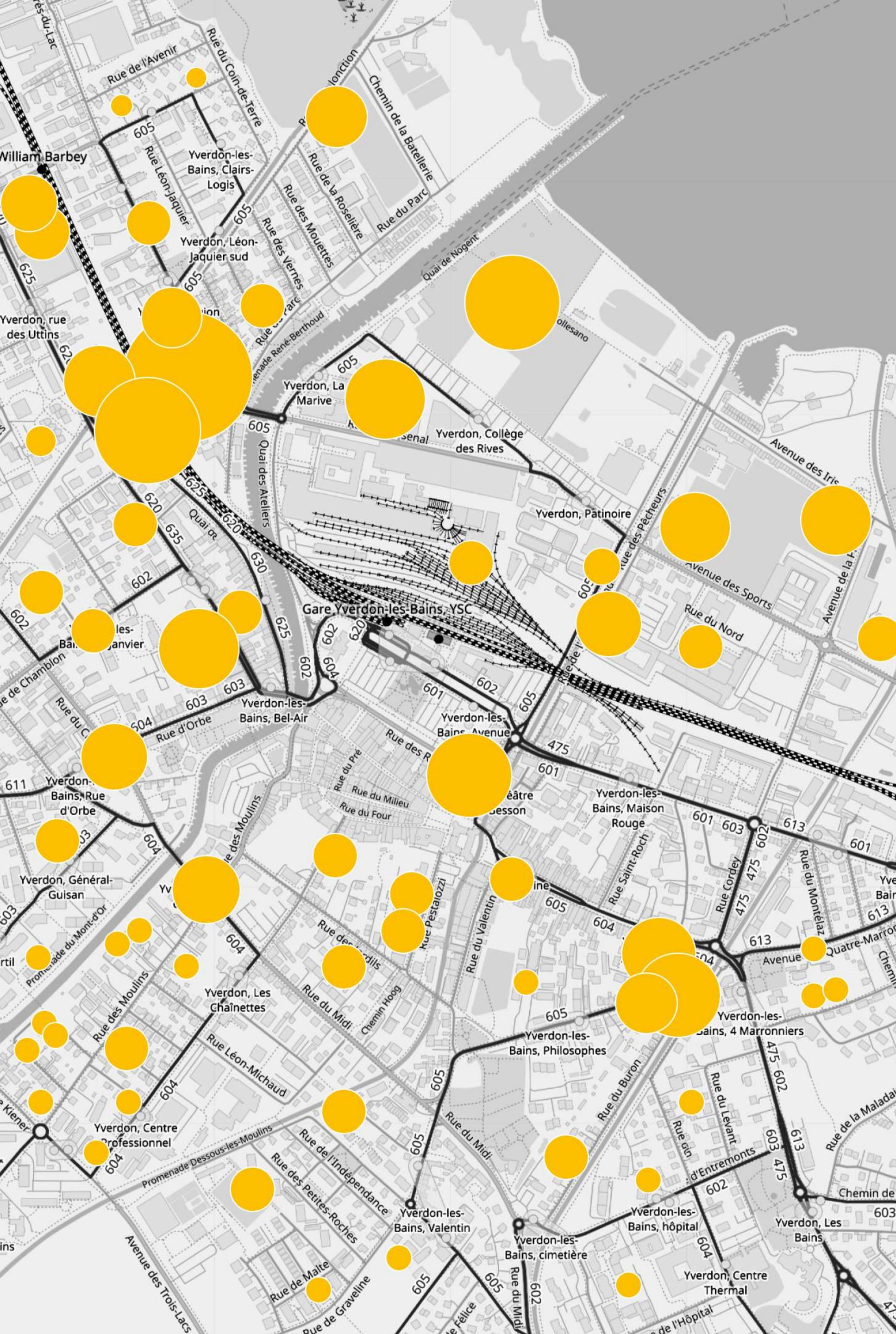
# Yverdon-les-Bains Énergies

Data visualizations for engineers and the public

Client: Yverdon-les-Bains Énergies

Project scope: Design + Development

Technologies: PHP, MySQL



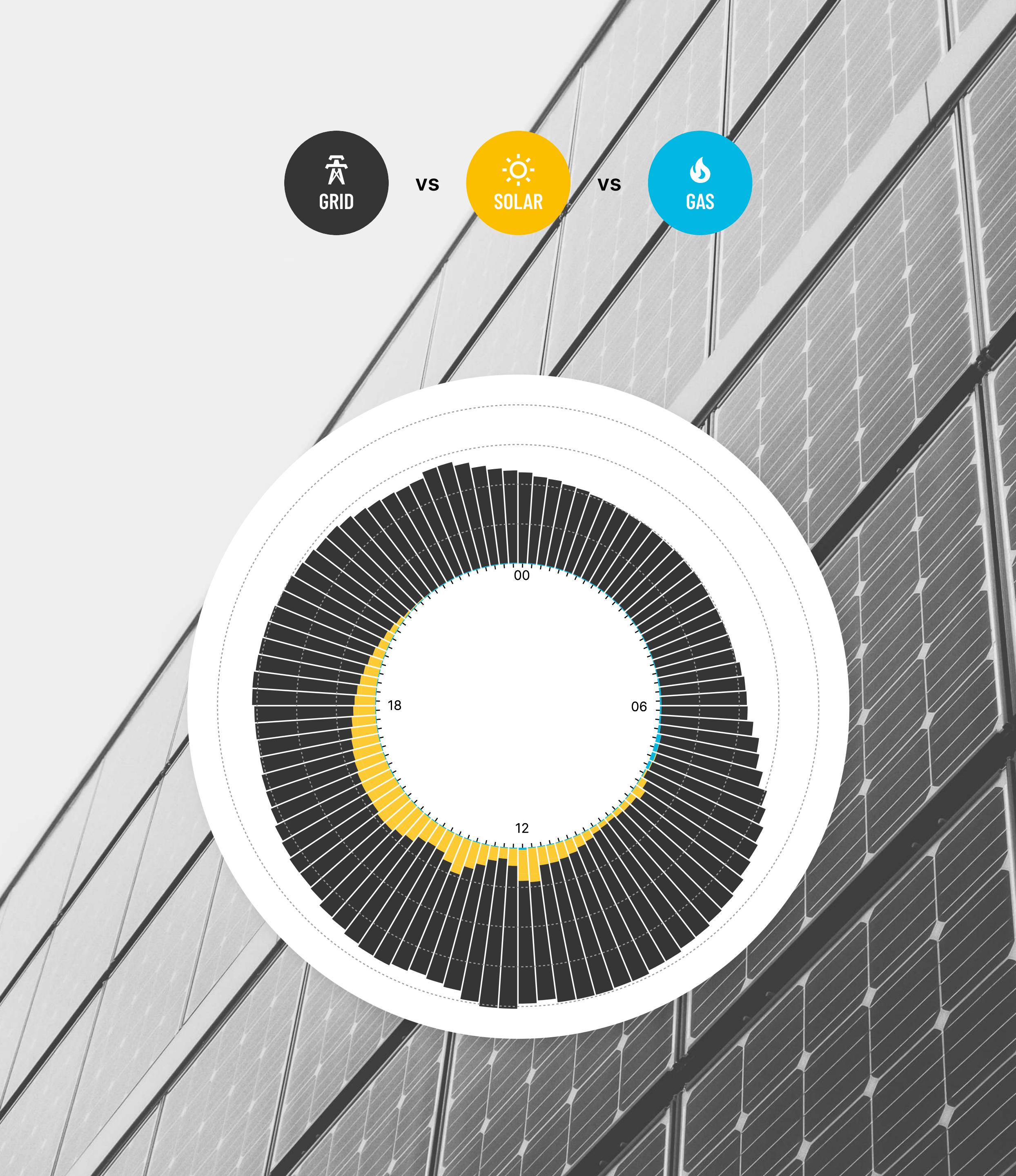
## Project overview - dashboard

This data visualization project is commissioned by Yverdon Énergies - a public company that delivers electricity, gas and drinking water. The company operates in and around Yverdon-les-Bains, the second largest town in the Swiss canton of Vaud.

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To help the client make data driven decisions and improve their analytic capabilities, we made the following visualizations:

1. Density map of the local solar capacity.
2. A 24 hour radial chart to inspect any given day.
3. A bar chart that includes future renewable output based on the weather forecast.



vs

GRID

vs

SOLAR

vs

GAS

## Charting consumption from all sources

Our charts display energy consumption from the power grid, local renewable sources (solar), and gas supply (in CCM). Overlaid together, the data illustrate the energy consumption of nearly 30 000 residents, along with small businesses and industry, over time increments as small as 15 minutes.

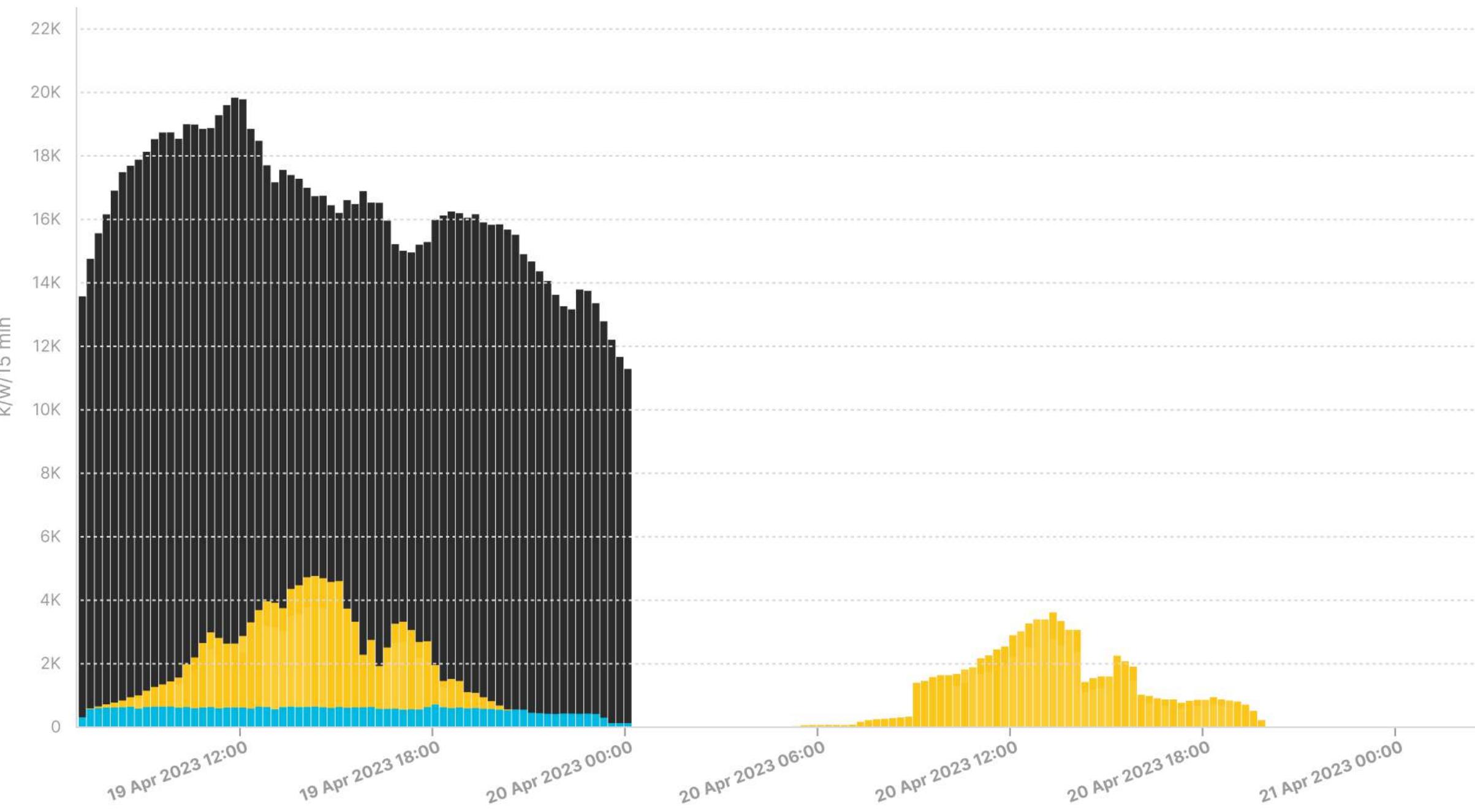
We overlay production and consumption from local solar capacity against the power purchased from the grid. This enables engineers to keep track of the balance in the energy mix.



vs



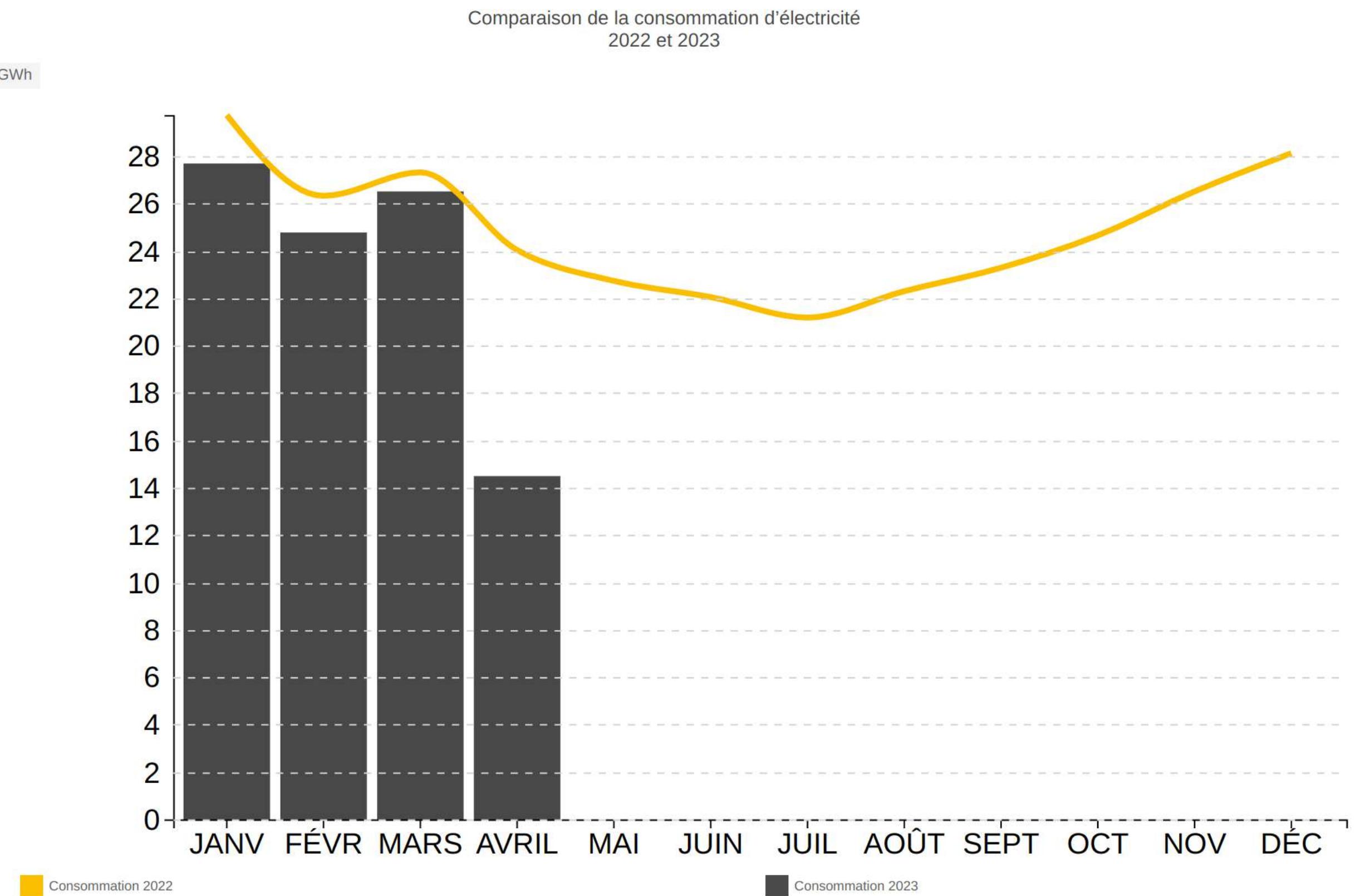
vs



## Solar panel output and the weather

We also source weather forecast data from MeteoSuisse via API. Then we calculate projected solar panel output based on the expected amount of sunlight.

The data is used to assist in the fine tuning of purchases via the grid by taking renewable intermittency into account.



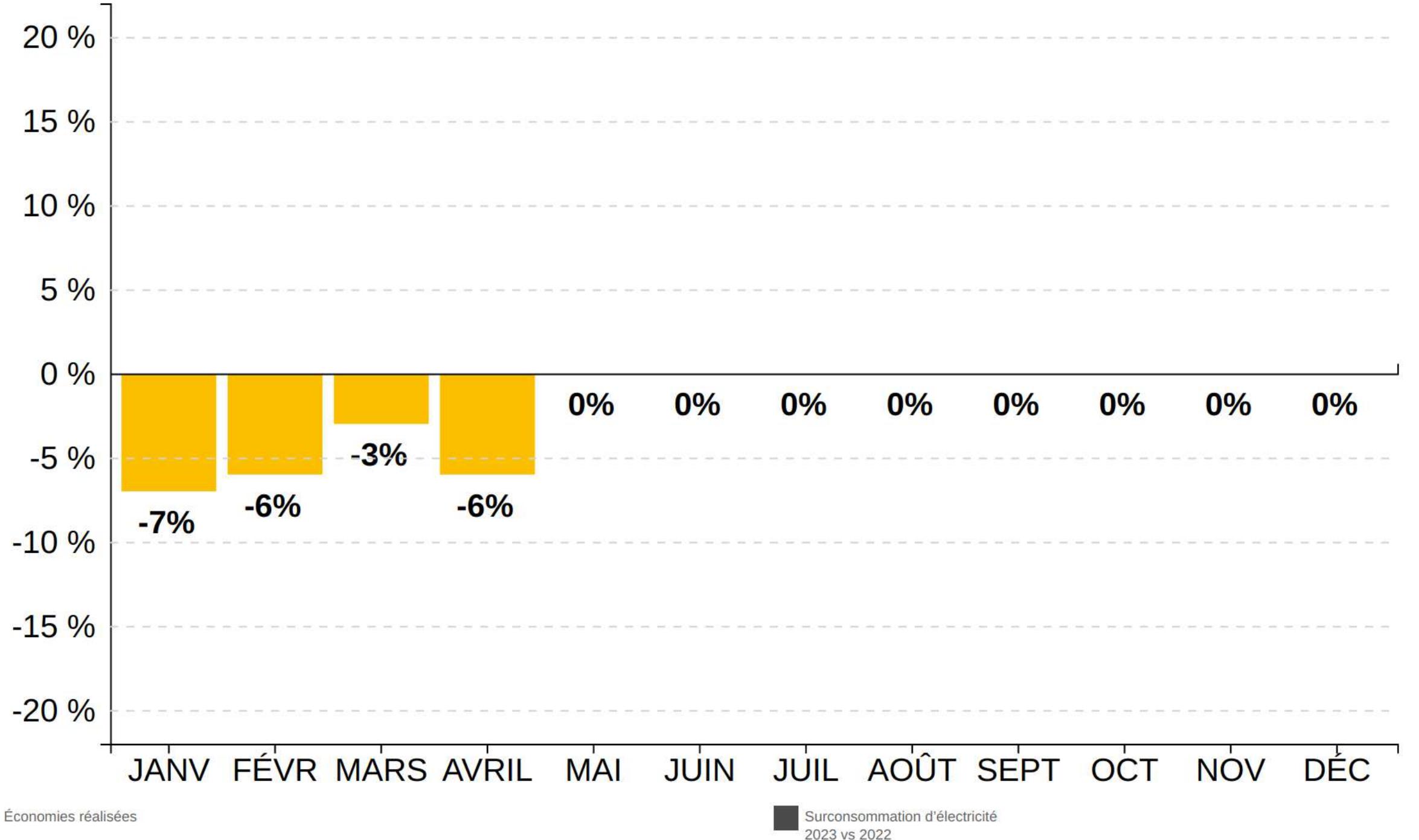
## Project details - public campaign

At the end of 2022, at times of energy insecurity and market instability, Yverdon Énergies anticipated supply disruptions. In response, the company decided to launch a PSA campaign to reduce energy consumption.

The idea was to offer a monetary reward as motivation for reduced power usage. Part of the campaign included publishing numbers about the progress towards the savings goal.

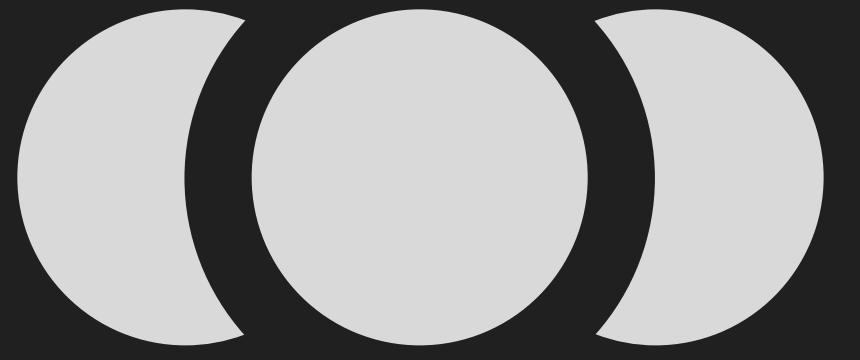
Comparaison de la consommation d'électricité  
2022 et 2023 en %

%



## Motivating people's choice and participation

The visualized result more effectively stimulates users to take the actions needed to contribute to the goal. Members of the public are being shown that their conscious choice matters and meaningful action can be taken at an individual level.



# Thank you for watching!

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