e Flower

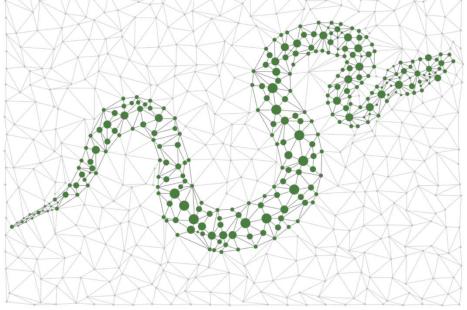
eFlower Demo 06.02.2023

https://eflower.io

The leading provider for electricity impact data

WIDE COMPETENCES FOR THE ENERGY TRANSITION





In partnership with Pythonian

- IT developers
- Statisticians
- Meteoroligsts
- Hydrologists
- Power market experts



OUR PRODUCTS



Timeseries Refinery

An Open Source data management platform to collect, clean, assemble time series, automate tasks and model calculations, calibration and backtesting.



Data Forecast

An API for B2B as a tool to access weather forecast, power price forecasts, marginal technology forecast and marginal CO₂ forecasts for demand response

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CO2 Electricity forecast

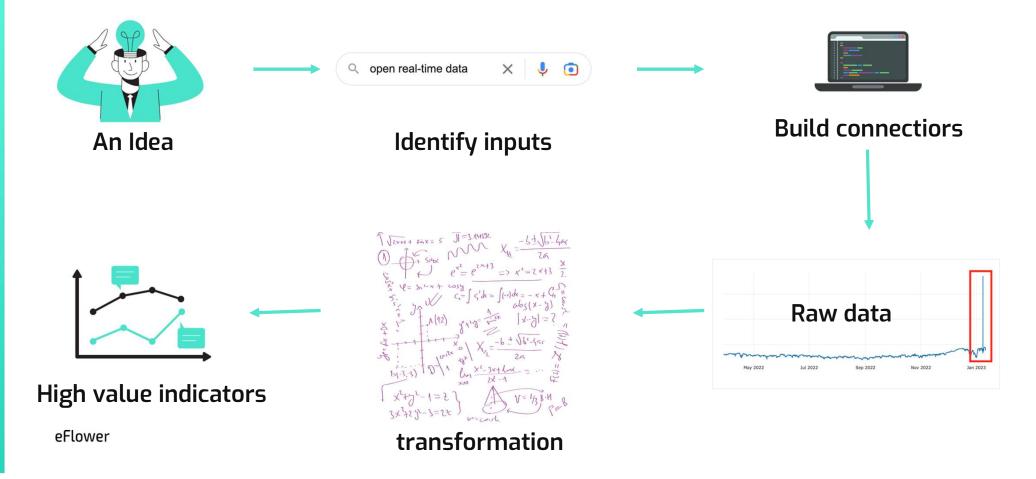
(Demonstrator) A mobile APP to help B2C customers modify consumption behaviour

Timeseries Refinery





Speed-up your business development with data analysis





Our Data Science Technology

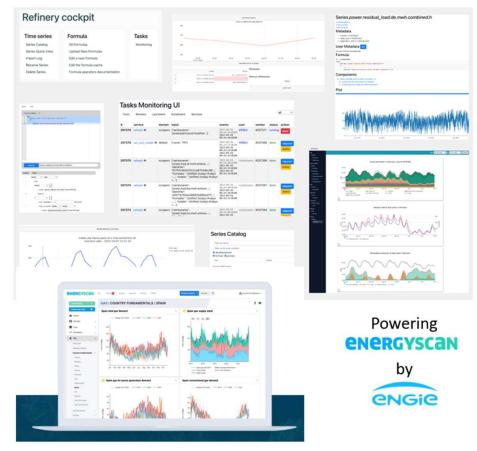
Integrated in your own IT infrastructure to deal with your own versioned time series

Acquire evolutive metering data together with our proprietary or open-source forecast

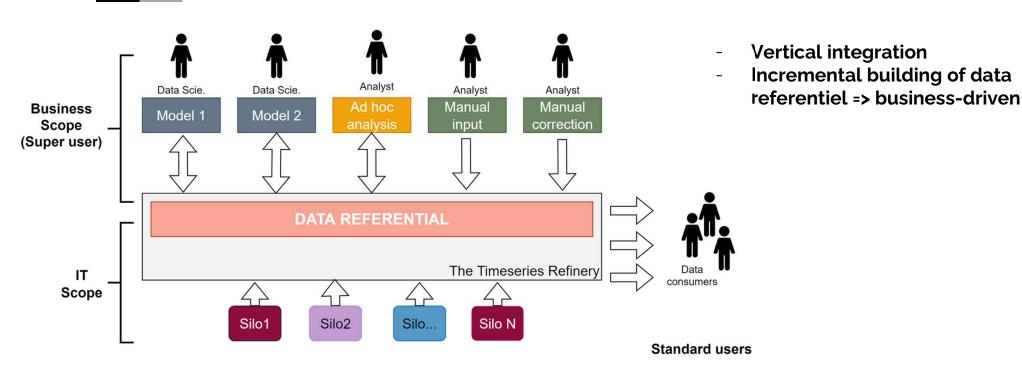
Run forecasting models for production & consumption

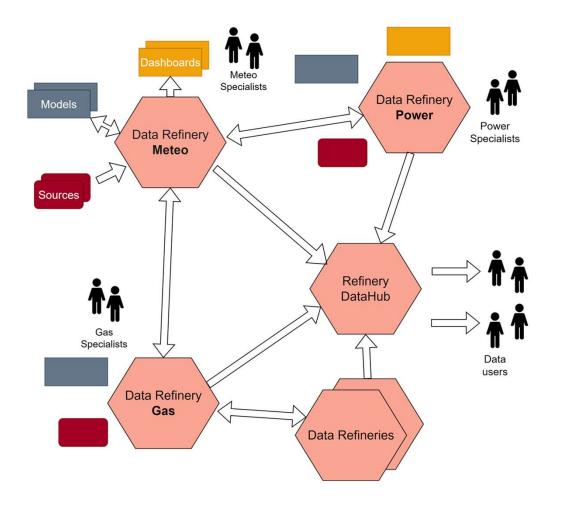
Share your high value-added insights with low code dashboards

The Timeseries Refinery : Open-Source Data Science Platform



Synergies between data experts enables to access new businesses





Horizontal integration => Data Mesh Incremental scope growth Emergent Data Governance Pattern Specialisation

- IT Business
- Among business specialists

The Timeseries Refinery

- Shared and collaborative Data Referential
 - Defined by specialist instead of ITs
- Business driven architecture
- Productivity tool (quantity & quality)
- Data quality tool (easy auditability and traceability of data sources)
- Data Governance tool
- Machine Learning framework: "game changer"
- Multi-scale
- Structured data with business driven APIs

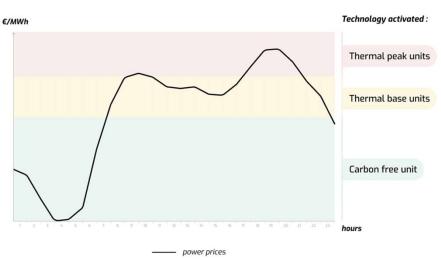
eFlower CO₂ emission forecast WHY ?

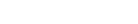




AT THE HEART OF OUR SOLUTIONS, AN OBSERVATION :

Wind & solar production have changed the game !





CO2 Forecast model



CO2 Forecast model

Before

Now

ECONOMICAL INCENTIVES HAVE LIMITS

1. End consumers are mostly not exposed to dynamic pricing in EU

Classical **peak / off-peak pricing are obsolete** with increasing wind and solar production.

 Consumers cannot manage highly volatile prices, it frightens, lack of pedagogy, technology, services & trust.

3. The majority of consumers are not exposed to prices at all !

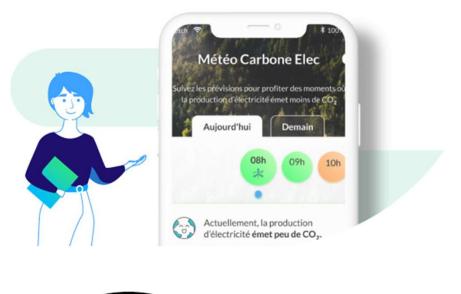
Ex :In households there is only 1 person responsible for the bill ... who generally doesn't even know his electricity cost

eFlower CO₂ emissions B2C use case



A BUSINESS OPPORTUNITY

- High incentive in carbon reduction for behaviour changes.
- strong correlation between wholesale market prices and marginal CO₂ emissions.
- Methodology is « Dynamic Pricing » ready
- Consumers who modify their behavior are cheaper





eFlower CO₂ emissions B2B use case

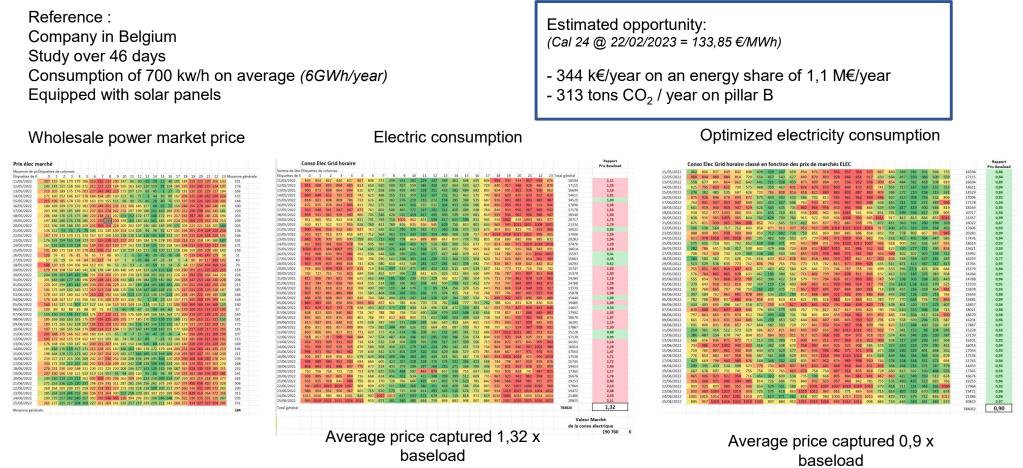


BUILDINGS: A MULTILEVEL ECOSYSTEM

The environmental communication from eFlower aligns the interests of the whole ecosystem.



EXAMPLE : OPTIMIZING THE CONSUMPTION OF A COMPANY





GEOGRAPHIC COVERAGE



Marginal CO₂ emission forecast for demand response across 12 countries in Europe

FR, BE, NL, DE, AT, DK, ES, IT, HU, CH, GR, PT

Power systems are screened daily by automatic algorithms to produce best forecast estimations of marginal CO₂ emissions

OUR VALUE PROPOSITIONS





eFlower's VALUE PROPOSITIONS

1 - Data Science / Management Open Source platform

Install, operate, maintain, the « Timeseries Refinery » in your own business environment

2 - Integrate additionnal Data Services

- CO₂ emission from power consumption designed to value and stimulate demand response
- DA Power price forecast
- Weather forecast and local PV production forecast.

3 - Data Enrichment and Reporting as a service

- Individual dashboards
- Consumer Financial Performance Indicators (Average captured price)
- Environmental consumption performance indicator. (Pillar B induced CO₂ reduction)



Why us?



Good for your clients

Highly empower their efforts with concrete feedback



Good for your business

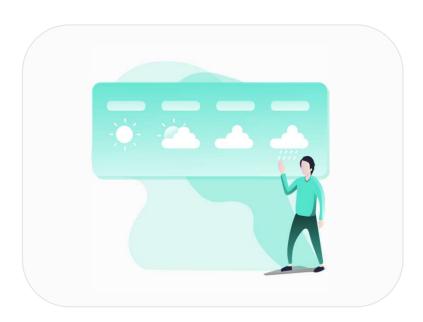
Improve your power sourcing and valorize the flexibility



Good for the planet

Onboard all the stakeholders behind a common goal





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