



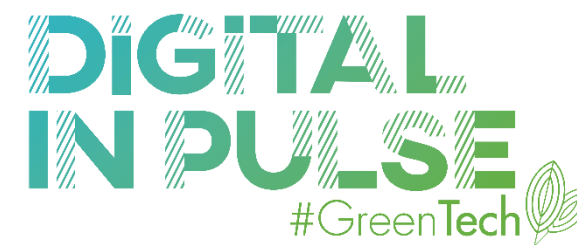
Smart switchboards for planet earth



The “all in one”
digital electrical switchboard
for connected and **eco-responsible** users

Key benefits:
Energy savings for **Smart Home** programs
and electric flows optimisation for
Smart Grid programs.

- Labeled Capenergies 2021
- Winner of the Grand Prize for Innovation
- Winner of the Digital InPulse 2021 edition (Nice)



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Situation

According to the International Energy Agency, energy demand is expected to increase by 30% by 2040.

Located at the heart of the electrical installation, the electrical switchboard has an enormous potential.

However, it is based on a technology of mechanical circuit breakers which dates from the 1970s and limits the possibilities.

Yet technologies have evolved and so have the habits.



In search of efficient energy management, Pierre Furlinnie has reinvented the electrical switchboard. He replaced circuit breakers with a touch screen and equipped it with connectivity. The switchboard's new generation optimizes the electricity consumption of the building and the territory.

Solution



For the user *[Smart Home]*

Safety and energy efficiency

- Electrical protection
- Detailed analysis of consumption in real time circuit by circuit
- Alerts in the event of an electrical fault and access to event history
- Programming of day/night routines, presence/absence, tariff preferences
- Load shedding of low priority circuits
- Secured remote control
- Multi-boards management

15 to 20% savings for home owners,
up to 40% for professionals



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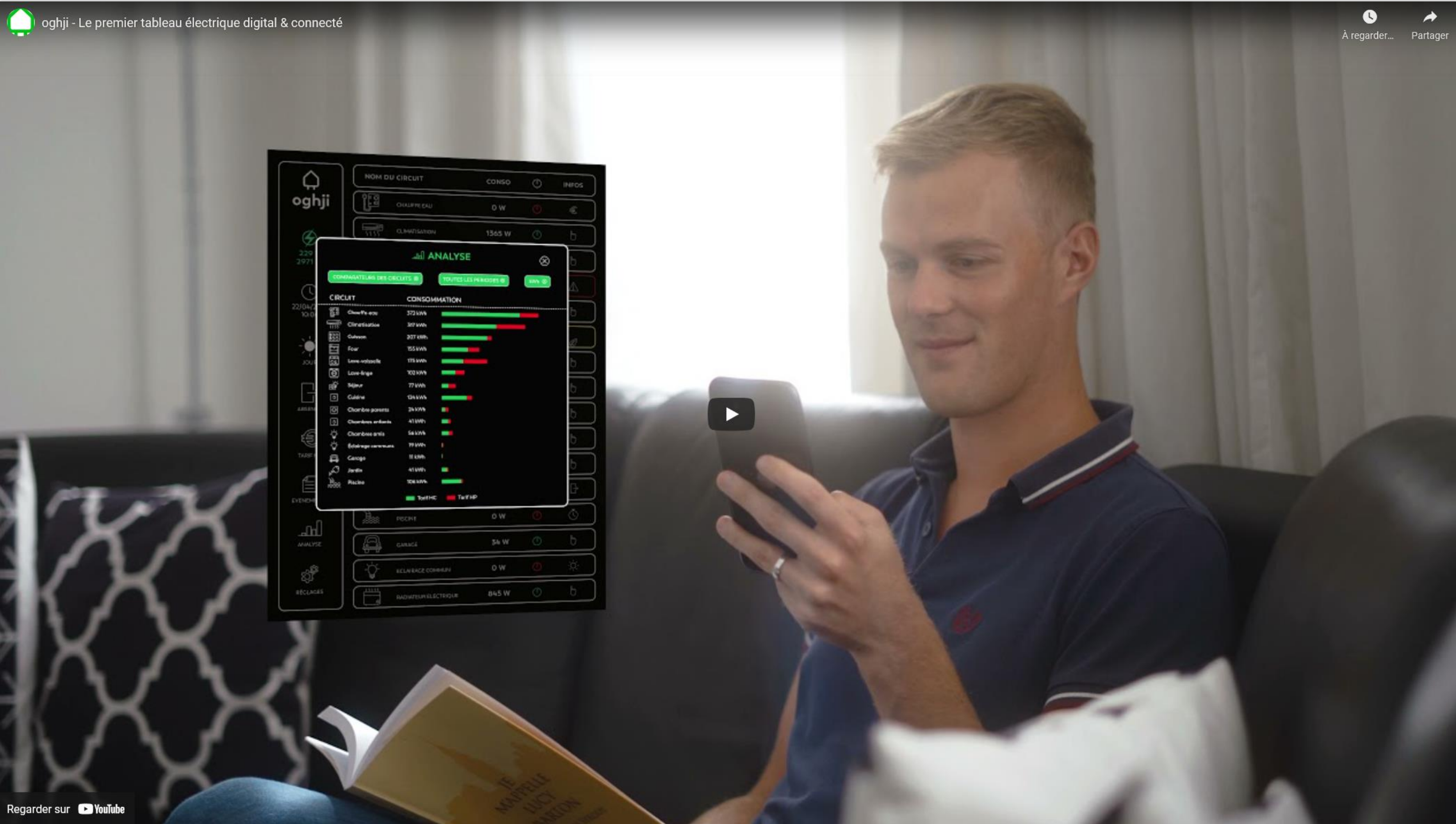
For the network operator *[Smart Grid]*

Monitoring and optimization of energy flows

- Data collection and aggregation per usage
- Real-time sensor and analysis interface
- Remote control of circuits
- Sending of low priority circuit load shedding orders
- Smart charging
- Priority usage of local renewable energy sources

Promotes the share of renewable energies

OGHJI live



[CLICK HERE](#)
For a demo
video
[1:36]

*Subtitles available in
English*

Smart Home



Protection - Measure - Control

Electrical protection

- ✓ Centralization of the distribution and control of electrical circuits in a building.
- ✓ Safety of the electrical installation, the building and the people.
- ✓ Response to overcurrent and current leakage tripping curves.

But also:

- ✓ Access to the list of events and anomalies

And **oghji** is much more than an electrical protection panel...



Consumption measure and analysis

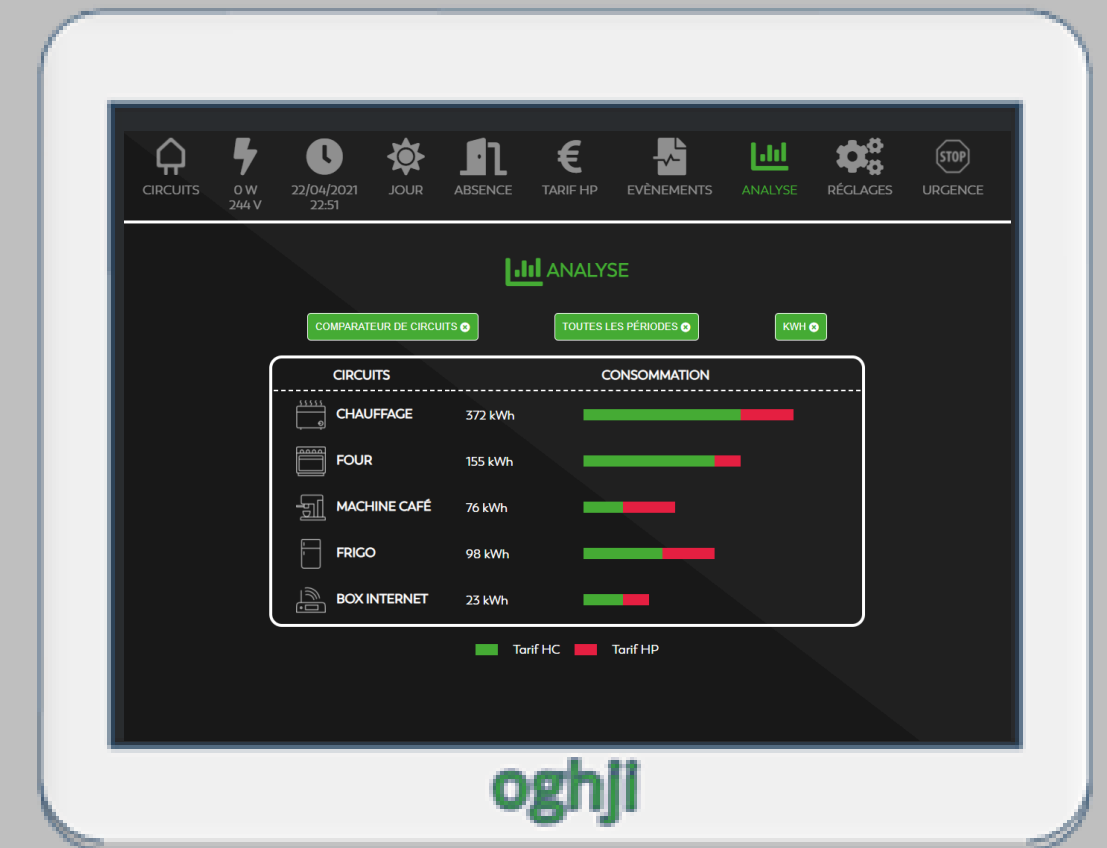
Oghji produces several reports:

- ✓ Total consumption
- ✓ Consumption per circuit
- ✓ Circuit and period comparator

For each report it is possible to choose:

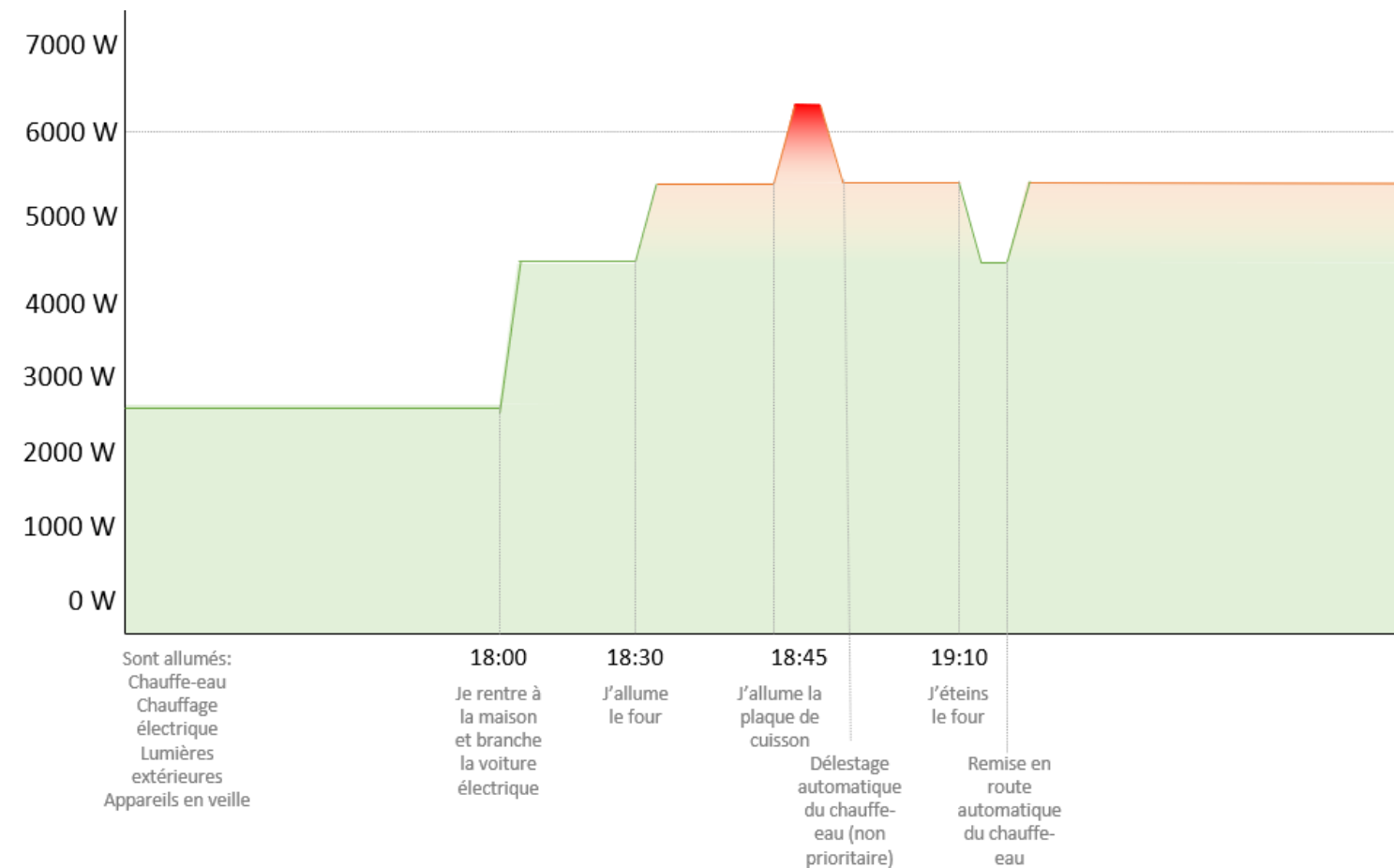
- ✓ The analysis period (minute, hour, day, month, year)
- ✓ Display unit (kWh, €, human effort equivalent)

Newsletters may be sent to oghji customers with personalized recommendations.



Consumption piloting

- ✓ Cut in absence
- ✓ Routine programming (ex: day/night + schedules)
- ✓ Tariff programming (e.g. off-peak hours)



- ✓ Automatic load shedding to avoid exceeding the subscribed power.



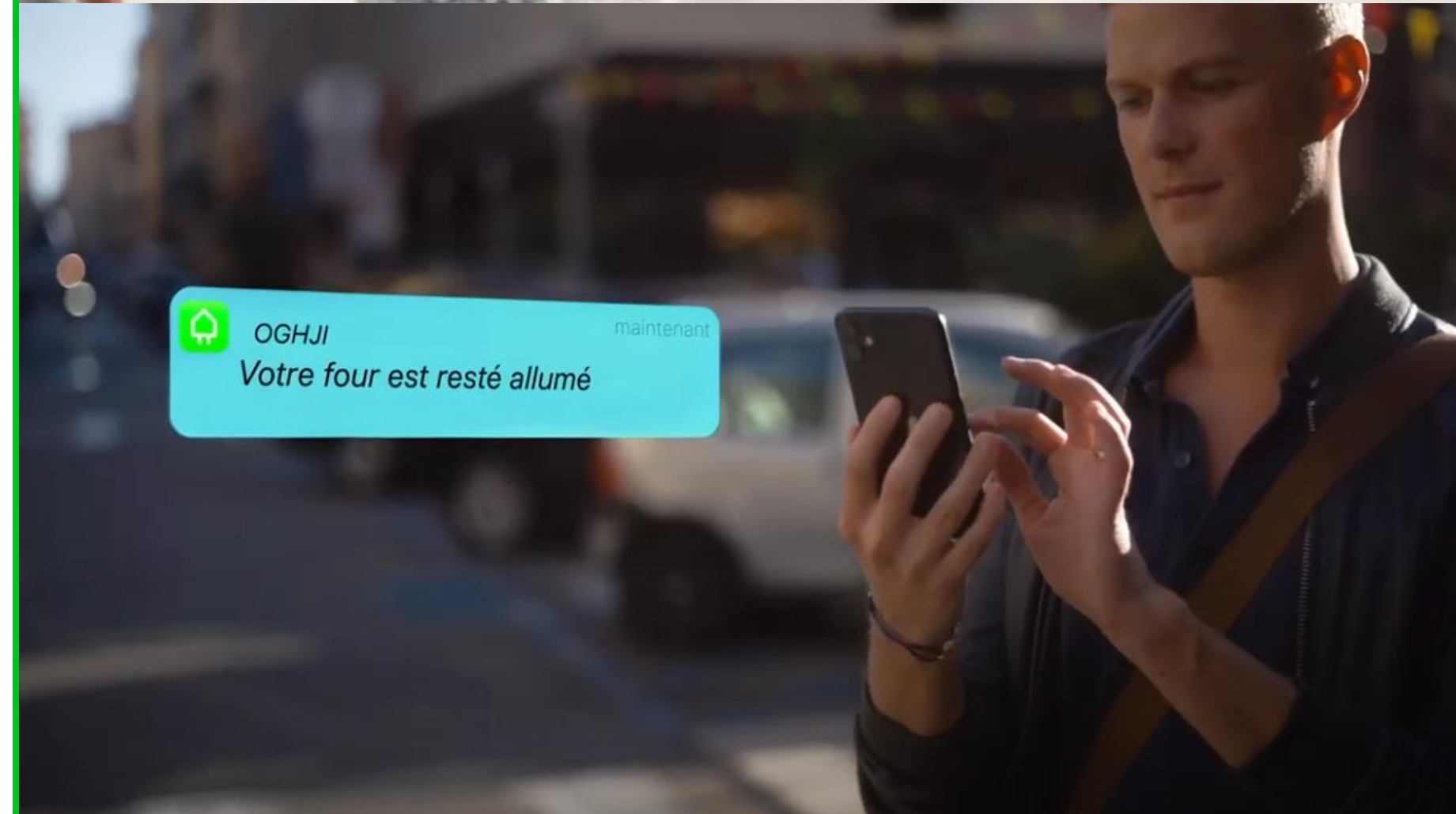
Smart Home

Remote control*

- ✓ Available in mobile application
- ✓ Instant Notifications
- ✓ Real-time consumption analysis
- ✓ Programming oghji routines
- ✓ Home attendance management
- ✓ Directory of installers and support oghji

All of the remote functionalities are also accessible via a simple internet browser.

*Wifi en option



Smart Home

Use cases



Fine sub-metering

Short-term rental, roommates, teleworking...
Invoicing real costs and limiting abuses.



Energy management

Switching on the heating and the water heater remotely before the arrival of tenants.



Installation Monitoring

Detection of end-of-life device, abnormal shutdown or faulty installation.



Home support for seniors

Alert in case of change of habit in daily electricity consumption.



Personalized offers

Tailor-made energy offer (e.g. students working at night, bakers working early in the morning, etc.)

Smart Building



- ✓ Multi-sites data aggregation
- ✓ Centralized control
- ✓ Analysis of a site's consumption as accurately as possible in real time
- ✓ Configuring priority circuits and automatic load shedding
- ✓ Programming Routines

Smart Service

Maintenance contracts for businesses, second homes and rental properties may be offered by oghji partner electricians.

- ✓ Remote configuration and circuits routines programming
- ✓ Remote diagnosis of the installation and access to events and errors
- ✓ Alerts and proactive intervention in the event of an electrical fault or unusual overconsumption

Smart Grid

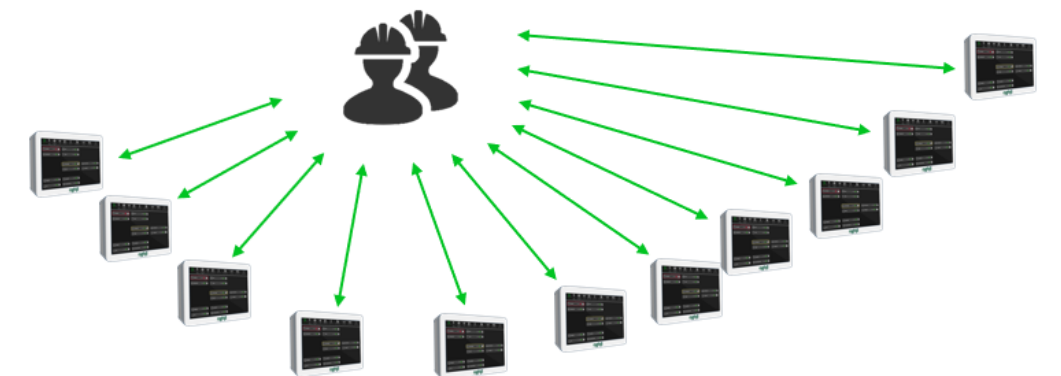


Big data consumption sensor

- ✓ Transmission and aggregation of status and consumption data for each circuit, in each home and business equipped with Oghji
In compliance with the protection of personal data regulation

Flow optimization

- ✓ Simultaneous sending of flexible and dynamic load shedding orders from low priority circuits to the oghji switchboards of a territory (building, eco-district, city) in order to smooth out consumption peaks and relieve network tensions.



In favor of **green energy** with priority given to local renewable energy sources.

For Jon, Jill, Sam, Tom and everyone else

SMART HOME



Jon

Householder

Interests

- New technologies
- Eco-responsibility
- Home control

Why oghji

- Design
- Consumption monitoring and alerts on the phone
- Energy savings

SMART BUILDING



Jill

Responsible for a collectivity

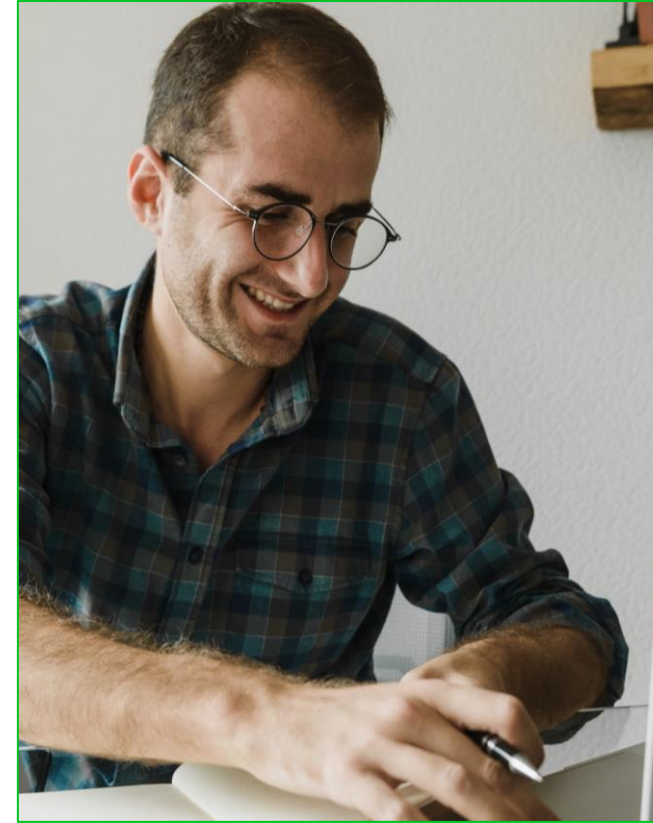
Interests

- Centralized control and monitoring
- Energy efficiency

Why oghji

- Data aggregation
- Multi-panels management
- Energy control

SMART SERVICE



Tom

Electrician

Interests

- Develop his activity
- Retain his customers

Why oghji

- Innovative technology
- Access to event logs
- Maintenance offers

SMART CITY



Sam

Network operator for an eco-district

Interests

- Centralized control and monitoring
 - Energy efficiency
 - Green energies

Why oghji

- Data aggregation
- Possibility to lean consumption avoiding peaks, and rely more on local renewable energies



Thanks

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