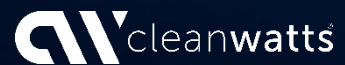


An underwater photograph of three dolphins swimming in clear blue water. The dolphins are dark grey with lighter patches on their sides. Sunlight filters through the water from the top, creating a shimmering effect. The dolphins are swimming towards the left side of the frame.

Shaping the Future of Sustainable Energy

October, 2024



Maria João Benquerença
VP of Energy Communities





We are a **climate tech leader** committed to simplifying, amplifying, and accelerating the global energy transition for local communities around the world.

Join us as we reframe society's relationship with energy.



Values that drive our culture:



Accountability



Empathy



Integrity



Initiative



Resilience



Responsiveness



Where we are



How we're tracking

Contracted RECs

224+

PV Power

70+ MWp

Community Members

4.500+



Fast facts

Team members

80+

Active clients

2.500+

Energy managed

2+ TWh

Metering points

280 000+

Emissions reduced

130+ t CO₂

**We remove friction and complexity from
local energy markets by originating and managing
Renewable Energy Communities.**





Digital

Develop, deploy and manage
services and solutions via
Cleanwatts™ OS



Projects

Design and commissioning
of REC infrastructure at
zero upfront cost



Energy

Clean energy, efficiency and
advanced energy
management **as a service**

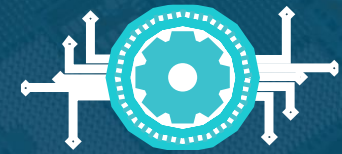
We provide everything you need to establish a
Renewable Energy Community.



**Financial
Capital**

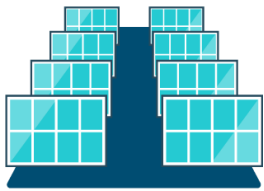


Hardware



**Advanced
Digital Platform**

We deliver tangible benefits to local communities and their members...



Clean energy

Affordable and locally sourced renewable energy



Security of supply

Protection against price increases and blackouts



Revenue

Peer to peer transactions and monetization through flexibility services



Additional savings

Smart energy efficiency and optimization

How do Renewable Energy Communities managed by Cleanwatts work?



Reduce Energy Costs and Simplify Energy Management with Cleanwatts

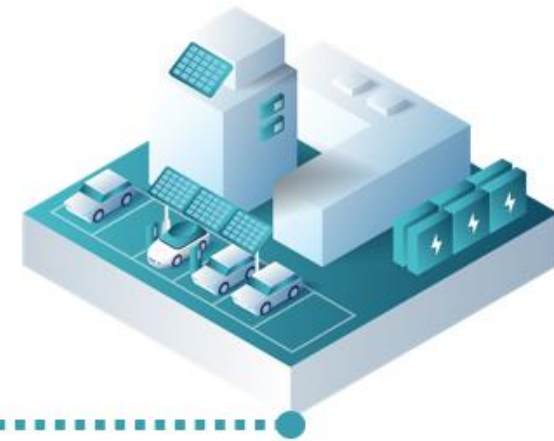
An advanced energy OS that helps businesses can **save money** with efficiency and **make money** by selling energy locally and helping stabilize the grid.



Cleanwatts helps **optimize energy use** managing everything in one place



We manage energy **communities** building a better business case for solar



We control dispatchable **assets** like batteries and EVs providing additional revenue



Cleanwatts™ OS

One platform: modular, interoperable and localizable

Front of the meter

Virtual Power Plant:

- ✓ Flexibility services
- ✓ Energy market Integration

Community management:

- ✓ Management of all energy assets
Including generation, consumption & storage
- ✓ Peer to Peer sharing, trading and balancing

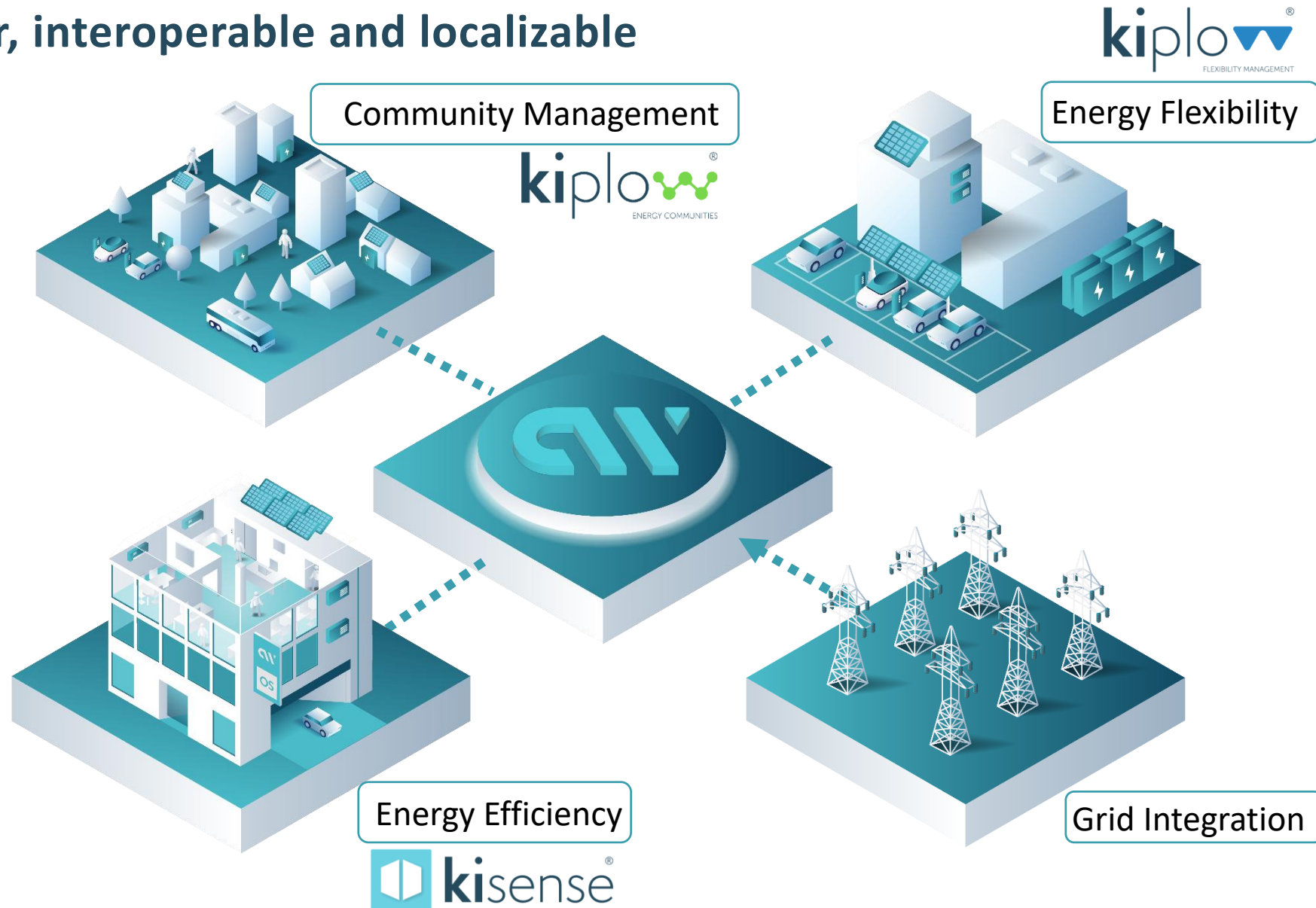
Behind the meter

Platform for Commercial and Industrial

- ✓ Behind the meter energy management & efficiency

App for Residential Users

- ✓ Smart home and Engagement app for energy community members



Cleanwatts Solution

Typical Use Cases

Additional Services

Can be added or combined



EV Charging

Infrastructure management



Ancillary Services

Market participation



Microgrid Development

PV > Flexibility > Community



PV + Efficiency Platform

Lower energy costs with solar and intelligent energy management



Intelligent Battery and EV Charge Optimization

Optimize energy assets for peak profitability with integrated battery and EV control.



Energy Community Creation & Management

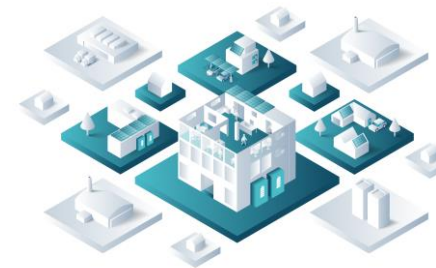
Sell excess energy locally as a source of revenue or local multi-site energy sharing

Efficiency > Community > Flexibility



Energy Efficiency

Reduce energy expenses through smart monitoring and optimized consumption



Community Energy Sharing

Generate revenue by distributing excess energy within the local community



Energy Market Participation

Maximize Earnings by participating in energy markets with battery storage solutions

Cleanwatts™ OS

Kiplo EC – Energy Community Manager



Interactive Dashboard

Centralize real-time data: energy flows, KPIs, member activities.
Facilitate informed decisions with visual data presentation.

Advanced Analysis Tools

Detailed breakdown of energy flows and consumption patterns.
Forecasting for optimizing community energy surplus.

Seamless Community Billing Integration

Streamline billing: integrate with ERP systems.
Export monthly consumption details for accurate billing.

Flexible Tariff Management

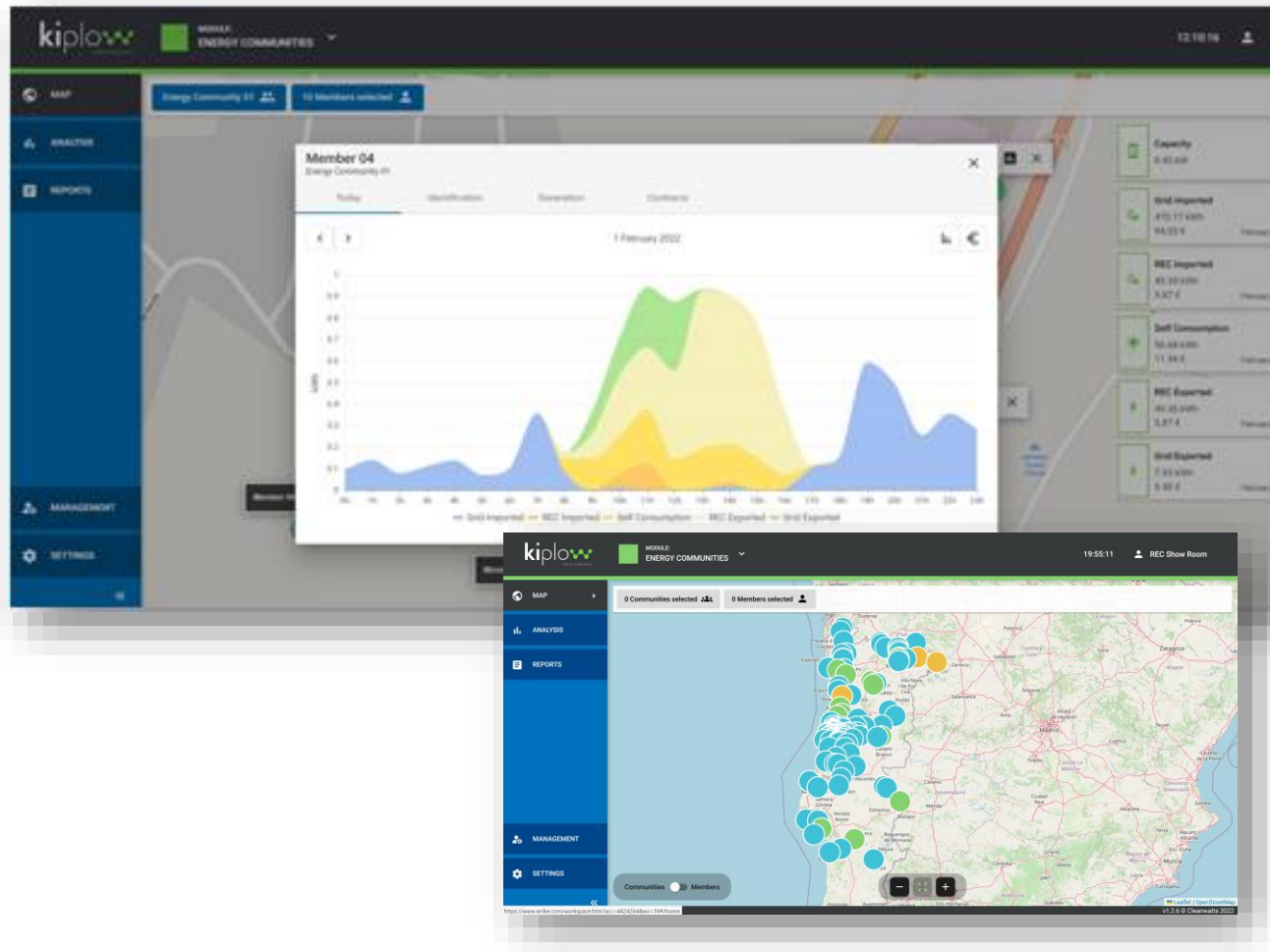
Customize energy tariffs per contract: static or dynamic.
Adapt to varying energy needs and market conditions.

Interactive Geographic Maps

Visualize energy community: generation sources, consumers.
Display performance indicators for operational efficiency.

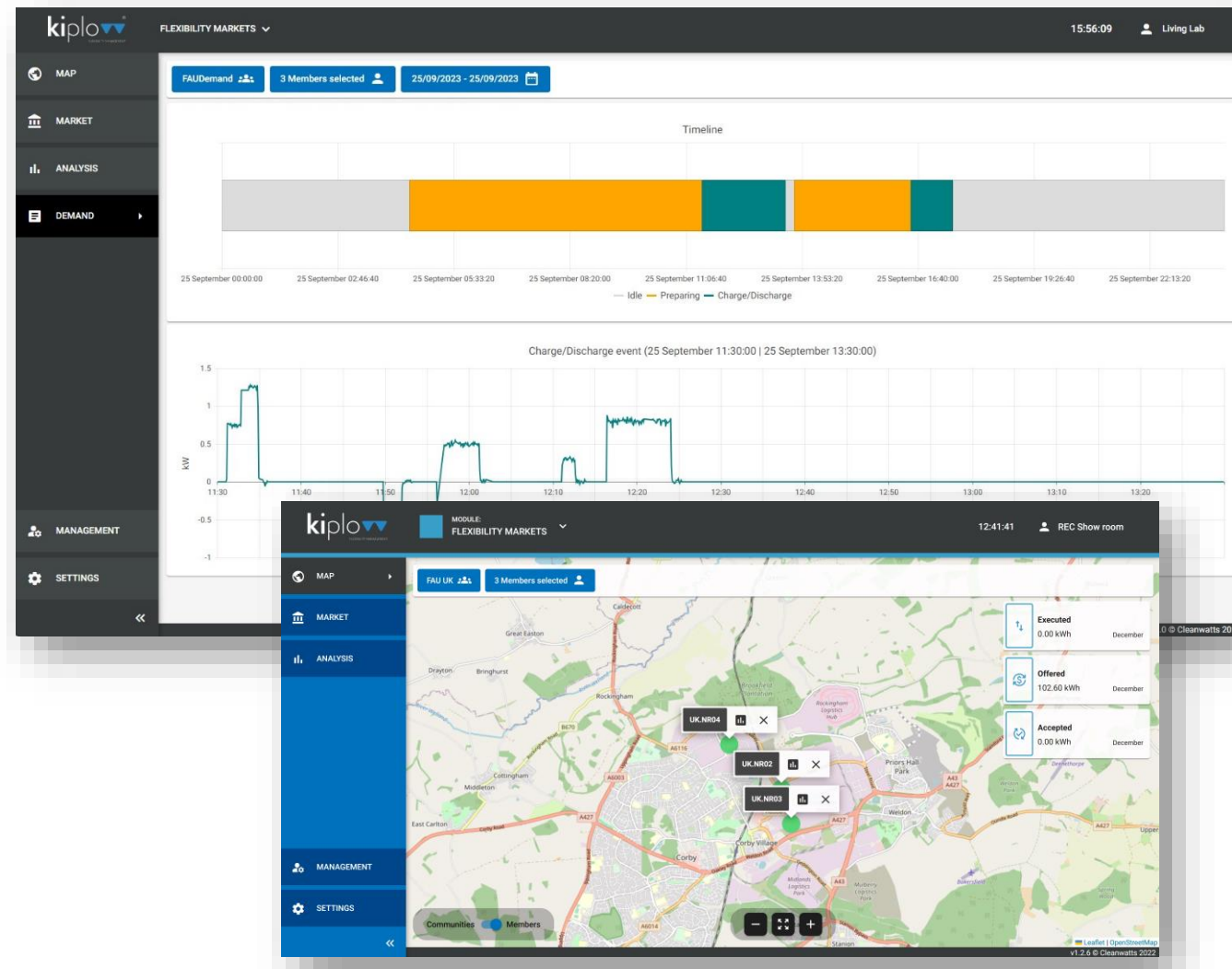
End User App

Comprehensive application for engagement and end user device management. Channel for direct communication with members. Interface for battery management and Smart Charging.



Cleanwatts™ OS

Kiplo Flex – Energy Flexibility Manager



Asset Management

View all managed assets and their specific attributes.

Program Management

Develop and administer flexibility programs for ancillary market participation and optimize scheduling for peak shifting and tariff adjustments.

Dashboard

Display assets, track flexibility transactions including executions, offerings, and acceptances.

Pool Management

Monitor the activation of flexibility programs and assess the operational KPIs of assets.

Dispatch Planning, Operation, and Optimization

Strategize and implement dispatch actions for operational efficiency.

Cleanwatts™ OS

Kiome – Residential end users app



Engaging community

Kiome lets you engage with you Energy Community and promote a sustainable way of consuming and learning about energy via messages, gamification and other features.

Friendly Dashboards

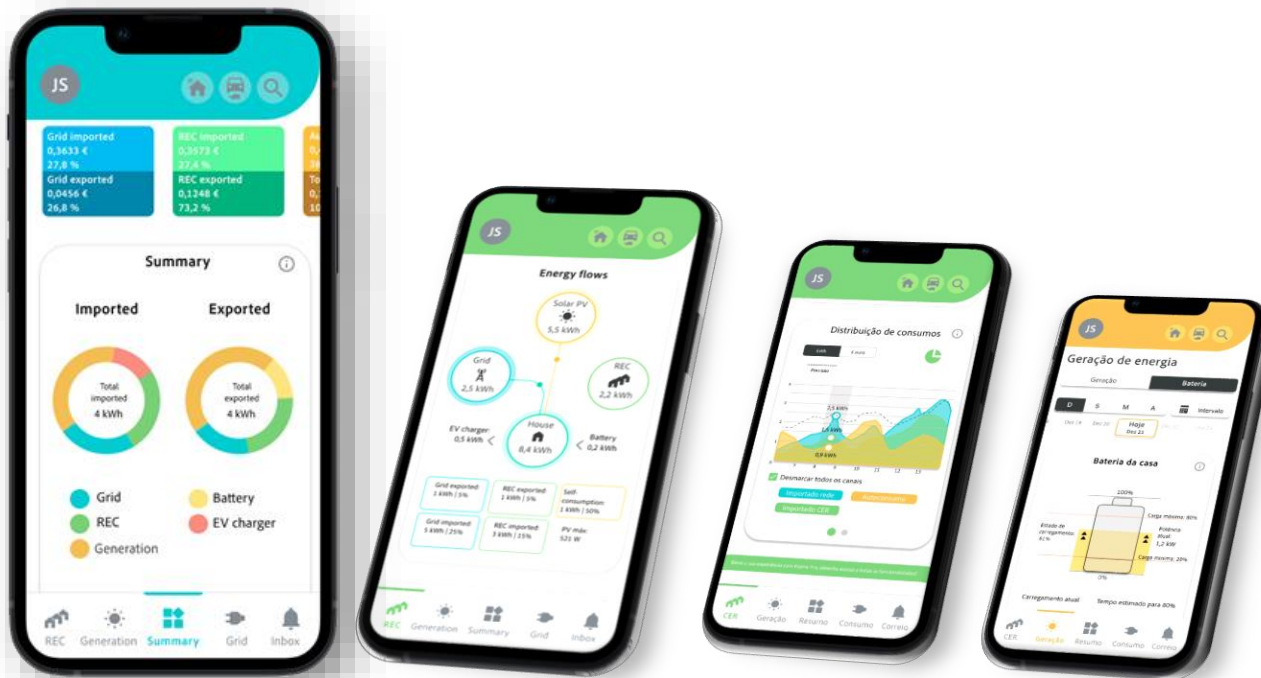
Dashboards tailored to User needs in a UX-Friendly manner allowing a better reach of the app

Asset Control

Control your home assets such as EV Charger via Kiome.

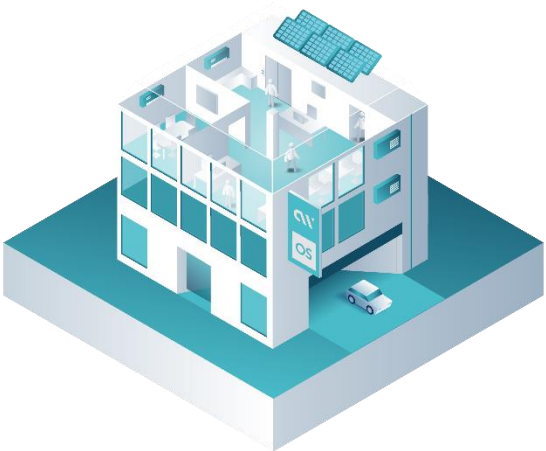
End User App

App focus on the residential end user to share the benefits of the Renewable Energy Community.



Cleanwatts™ OS

Kisense



kisense®

Dashboard

Quick view of consumption, rankings, KPIs, alarms, with multiple dashboards

Analysis

Analysis of consumption profiles, comparisons, heatmap and trend monitoring

Explorer

Data exploration, with history or real time, formulas, comparisons

Reports

Activity overview and performance benchmark

Alarms

Automatic anomaly detection, threshold setting, maintenance

Baselines

Immediate verification of savings, CO2 and carbon footprint

Control

Real-time ON / OFF control or configuration of control programs for peak shaving

Optimization

Optimization algorithms to reduce costs and maximize self-consumption

cleanwatts[®]

Shaping the future

of sustainable energy.