

# eSMART, intelligent connected solutions for buildings



[www.myesmart.com](http://www.myesmart.com)

Each apartment is provided with an interactive touch screen - allowing residents to manage their home wherever they are in the world.

# An intelligent, connected home is no longer an optional extra

## Respond to environmental issues

Keeping up with the latest energy efficiency trends doesn't just mean upgrading individual properties anymore - now, it requires a global management system, helping you stay connected with your properties.

## Being in constant contact with your house

is a must in today's society. Minimum fuss and time wastage, coupled with maximum comfort and security for residents: accessing your house's features while you're away has become part of everyday life. **eSMART** has taken a fresh and global look at modern living. Its personalised intelligence for the home means getting the best out your living space in an environmentally friendly way.

## Make a difference

today a equip your properties with a useful, adapted and personalised solution.



## An attractive touch screen for complete home management.



## **eSMART, the first interactive and connected management solution for the home**

### **Your connected apartments offer occupants and property managers more**

**Operating and managing the apartment's essential equipment** from home or remotely made easy:

- > the doorkeeper (video or audio intercom system),
- > the regulation of heating/cooling systems,
- > but also if desired, blinds, lighting, plug sockets, etc.
- > monitoring water, heating, electricity consumption displayed in real time.

### **The apartment's dedicated Smartphone application and control interfaces are intuitive.**

The apartment does exactly what it's told. Everyone operates their equipment to suit them.

### **Each apartment is now accessible to property managers**

Energy readings directly accessible for invoicing and direct communication to the occupants' screens optimise the operating costs of buildings.

### **Simpler to implement, with no additional charges for the infrastructure**

Thanks to its exclusive **eSMART-PLC** technology, the implementation is carried out on the building's usual electrical wiring without modifying existing electrical installations. This solution provides unique, green added value to your buildings.



# An interactive touch screen replaces the videophone eSMART-touch



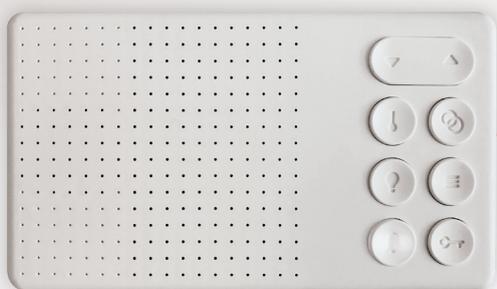
**eSMART-touch** replaces the videophone and brings together all the essential home features: room-by-room temperature control, opening the door to a guest after on-screen identification, turning on lights, closing the blinds, etc. One click is all it takes!

## Simple and user-friendly

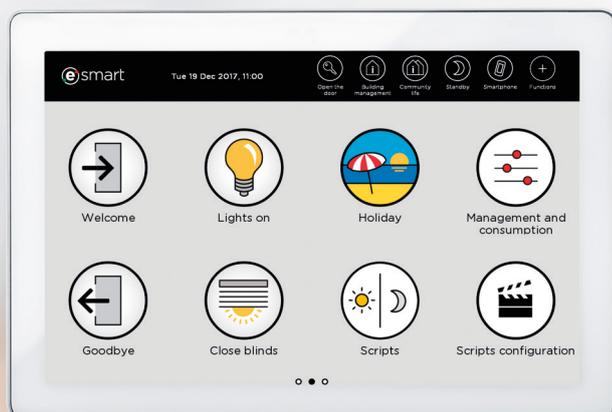
Scene settings are highly intuitive and can be set by the user. Clicking on the 'Goodbye' button automatically switches everything off and lowers the temperature - it's as simple as that.

**This household connected control panel** allows energy consumption to be monitored in real time and according to past events. The touch screen also allows family members to communicate with each other, e.g. via the family diary or by leaving a child a message. It also offers local information such as weather forecasts as well as bus and train timetables.

Regarding building maintenance or information about the neighbourhood, property managers can also send messages that appear directly on the screen.



**eSMART-hello** can be mounted two ways (vertically or horizontally). The system support mounted horizontally or vertically can hold the touch screen of the **eSMART-touch** system if the user wishes.



Screen **eSMART-touch**

## eSMART-hello

### An audio wall interface to replace the intercom

It centralises all the control buttons of the apartment's equipment. It allows you to simply welcome your guests via the intercom, to open the front door, to close everything when you leave and turn everything on when you arrive.

#### An upgradeable solution which meets even the most demanding user's needs

The **eSMART** solution is ever-evolving and can be upgraded at the occupant's discretion with rewarding added options: centralised blind and shutter automation, smoke detection, light dimming, centralised control of all lighting, switching off of appliances in stand-by mode, music etc. The list of options is ever-growing. Tomorrow's connected services will facilitate the lives of multigenerational neighbourhoods.

These options can be easily installed during construction by an electrician.

#### A quick start

The commands are configured in the factory, ready to use. Their simple operation allows the occupant to connect his smartphone to the system and take control with full autonomy in just a few seconds.

The wall-button interfaces also give access to the **eSMART-live** application.



# The eSMART-live: application: your house in your pocket

Once the occupant takes possession of his/her apartment, he/she can interconnect the family's smartphones with the **eSMART-live** application.

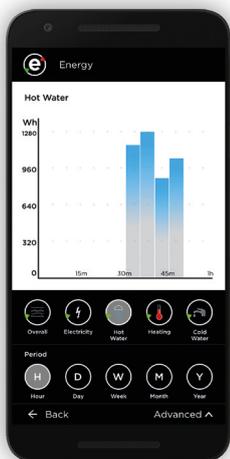
## Remote management and monitoring

He/she can also take control of his/her apartment from his/her telephone: modify a temperature setting, turn off a light that has stayed on but also check his/her energy consumption. At any time, from anywhere, his/her house answers to him/her.

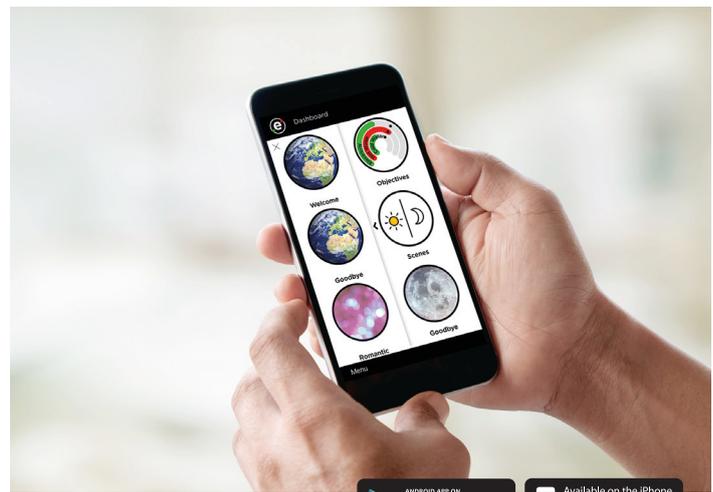
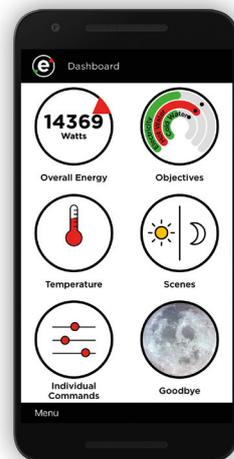


**Videophone  
call forwarding  
on the  
application.**

## Consumption monitoring



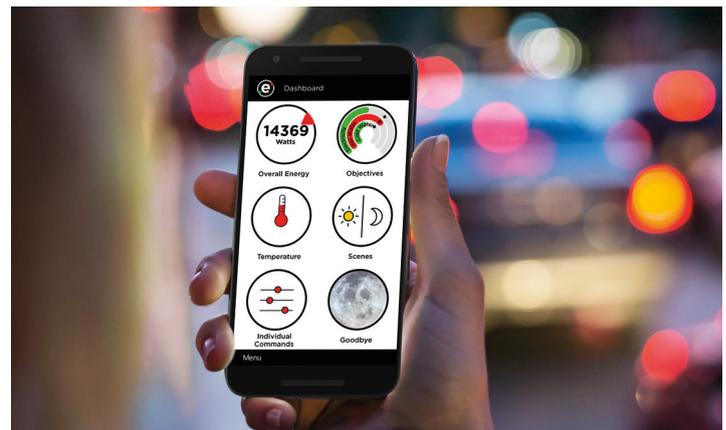
## Remote management



## Comparative features of each system

eSMART functions	eSMART-hello	eSMART-touch
Access control	audiophone	videophone with screen
Heating temperature adjustment*	Comfort or overall economical mode with the touch of a button	Configuration per room or overall by the screen
Consumption monitoring	from the application only	directly on the screen and by application
Creation of scenarios	✗	✓
Family diary	✗	✓
Weather	✗	✓
Transport info	✗	✓
Receiving property manager message	only from the application	directly on the screen and by application
Connection of the user smartphone	by the touch of a button	via the screen by a 4-digit secure code
Controlling blinds (option)*	open everything/ close everything with the touch of a button	one by one or all together, screen interface
Controlling lights (option)*	turn everything on/ turn everything off with the touch of a button	one by one or all together, screen interface
Nearby - third party service	✗	customisable

\*+ individual control from the App.



## A further proof of energy efficiency

### Real-time monitoring of consumption levels

In accordance with EN-14, known as DIFC, **eSMART** goes even further to offer occupants to monitor their heating, hot water and electricity consumption in real-time. They can also set themselves monthly consumption targets and consult their consumption history. Just measuring and monitoring consumption can generate immediate energy savings of up to 10%.

Occupants who are made aware of their carbon footprint caused by the energy they use will change their habits.

**Why continue to cool/heat your home when no one's in?** The 'Goodbye' mode, which is activated on leaving, means you can turn down the cooling/heating and turn off the lights without having to go around the apartment. 'Holiday' mode turns down the cooling/heating until the day you get back.

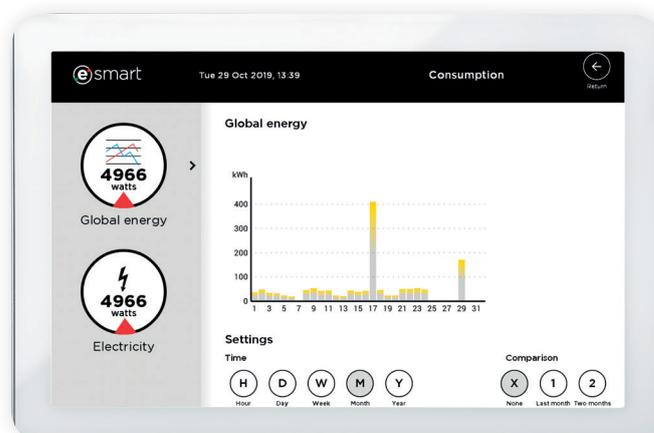
**-15% Energy** Combining these advantages can make for savings of up to 15%, a subject buyers and residents are increasingly interested in.

**eSMART qualifies for Class A according to the construction standard SIA 386.110:**

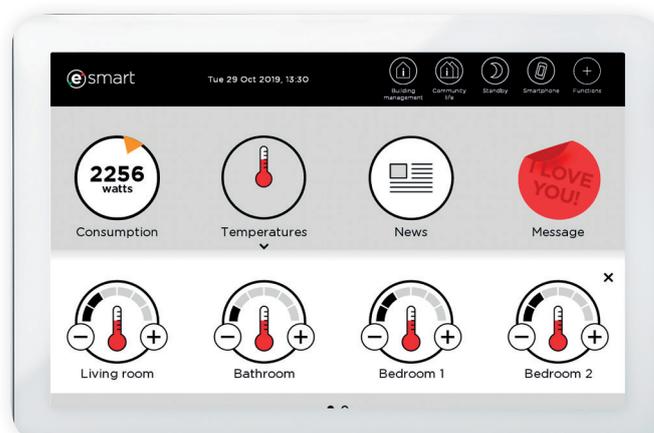
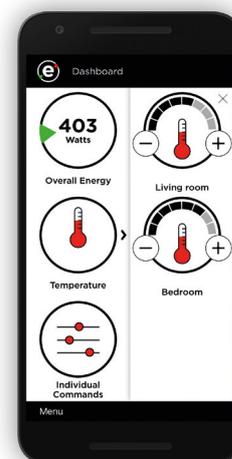
- Cooling/Heating regulation: room-by-room regulation which recognises when the occupant is away (requires presence sensor).
- Lighting control: on-off switch for the entire property (requires presence sensor).



### Energy monitoring



### Cooling/Heating control



# Improved building management and optimised control

The screens in the apartments remain connected to the property manager for monitoring purposes.

Property managers and caretakers can monitor the connected apartments remotely using a secure web platform which provides data for each property in the building.

## Energy billing no longer requires a meter reading

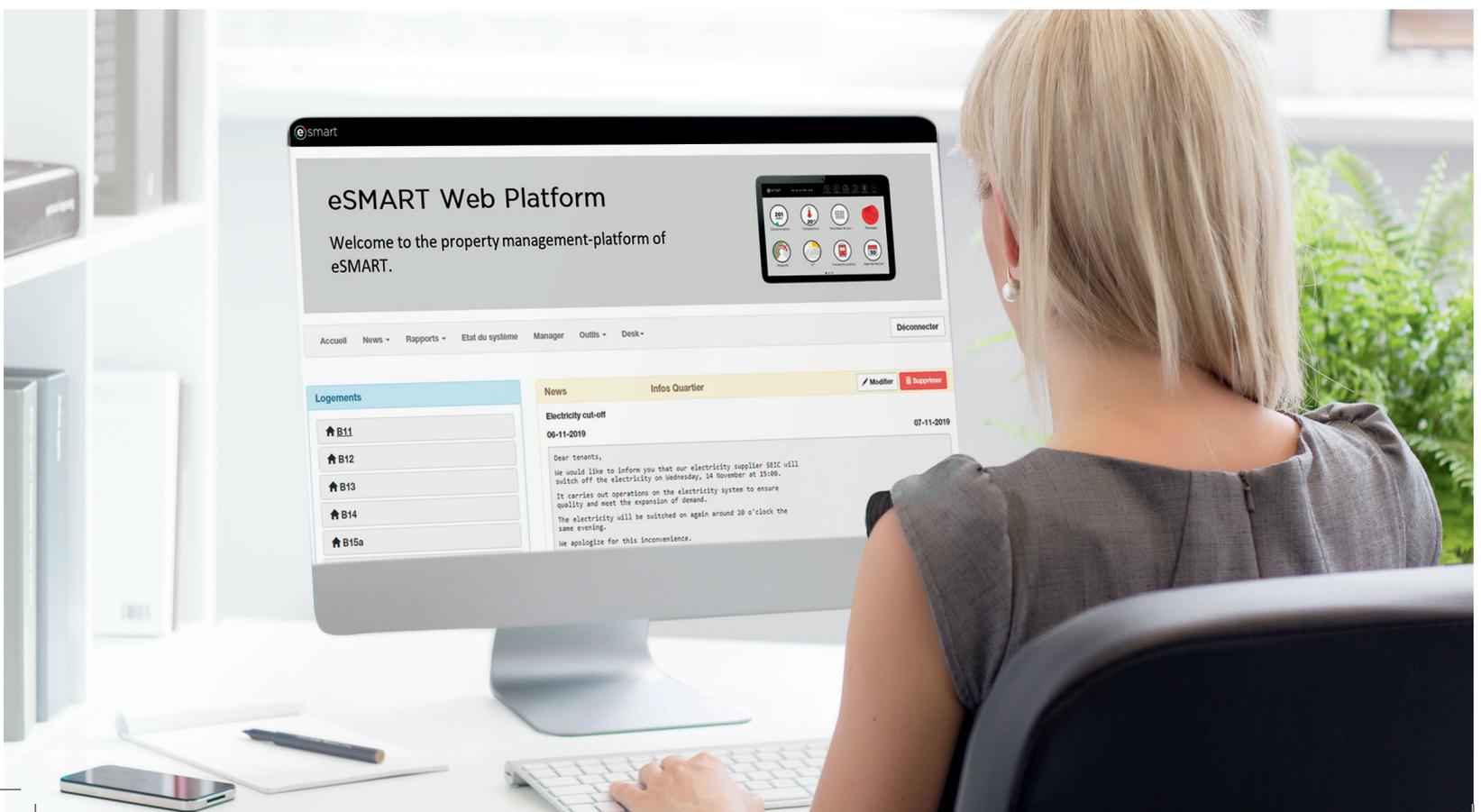
Data on heating (kWh), water and hot-water consumption (m<sup>3</sup>) for the whole building and individual apartments can be exported for billing management independently and at any time (intermediate accounting if an occupant leaves a property permanently). A technical alert is sent should the meter fail. This makes for a reliable billing procedure and helps avoid litigation.

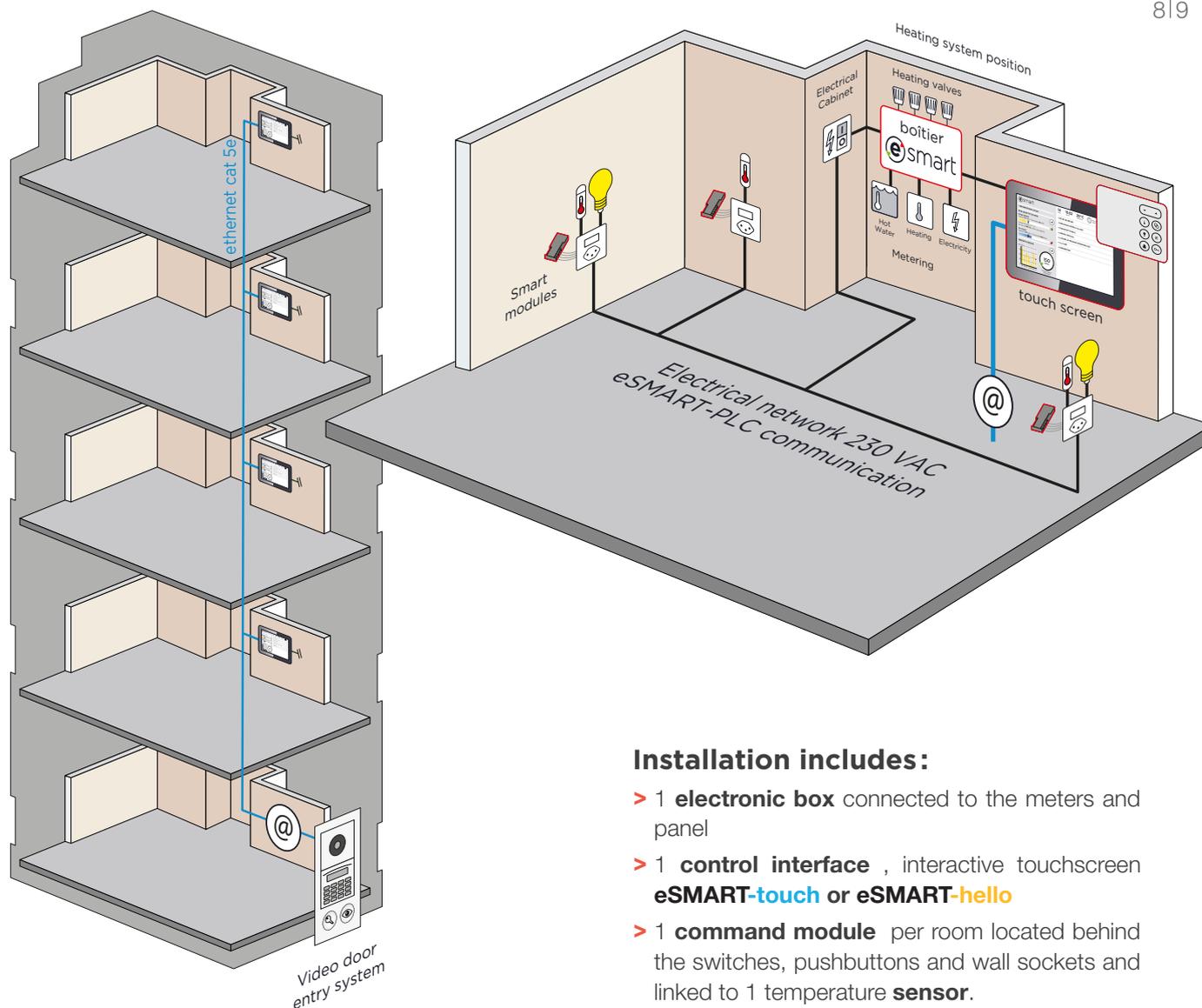
## Messages are sent directly to occupants on their touch screens

Using the web platform, management and caretakers can send messages to occupants which appear immediately on the touchscreen in the apartment. Communication has never been faster or easier.



Technical monitoring and calculation of building service charges with **eSMART-web**.





### Installation includes:

- > 1 **electronic box** connected to the meters and panel
- > 1 **control interface** , interactive touchscreen **eSMART-touch** or **eSMART-hello**
- > 1 **command module** per room located behind the switches, pushbuttons and wall sockets and linked to 1 temperature **sensor**.

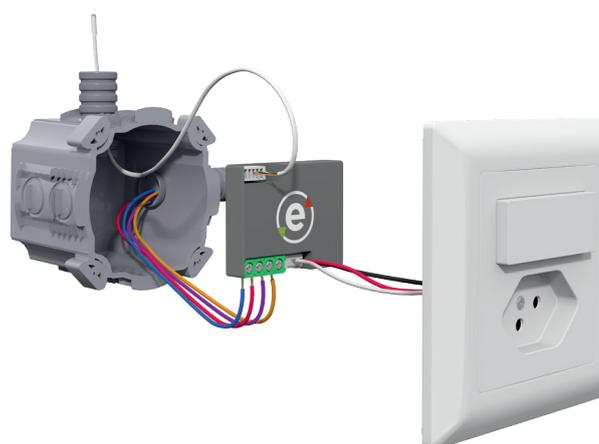
Temperature sensor

## Simple design and reduced cost

### No-limits design thanks to an exclusive design

**eSMART** patented technology requires no extra cabling, circuit board intervention or bus line, because the products use an optimized PLC (power line online) technology that uses existing electrical wiring with no other technical requirements. Modules, invisible to the user and connected behind the electrical switches in the cavity wall box, connect each device to the **eSMART** interface. A temperature sensor in each room is connected to the module for heating regulation. The system interfaces with the chosen devices in the building.

**eSMART-PLC technology can thus be installed on a construction or on a renovation project.**



### Optimised technical architecture

The **eSMART** system is highly affordable when one considers the costs of the standard products it replaces (videophones, regulation of heating and central energy monitoring) and the reduced labour costs required for its installation.



## Tailor-made solutions adopted by the biggest names

Since 2011, **eSMART** has equipped more than a hundred projects and several thousand dwellings. All types of residences are concerned: custom-made residences as well as the biggest ecodistricts among which:

- **Eikenott, the biggest ecodistrict of French-speaking Switzerland in Gland**, between Geneva and Lausanne: 230 **Minergie – ECO** labelled apartments,
- **Greencity Zurich**, Switzerland's first sustainable district certified Site 2000-Watts by the Confederation Services (297 dwellings).
- **The Capelli Towers** (100 apartments) in Belval in Luxembourg have also chosen **eSMART** to make it easier for their occupants to monitor energy consumption and optimise lease management.

The biggest construction corporations and real estate investors in Switzerland and overseas have been won over by the simplicity of the installation and the intuitiveness of these solutions as well as the optimisation of the operating services.



Consulat Général Switzerland's - Dubai - 2018



Luxembourg - 100 apartments - 2018



Eikenott - Gland - 230 apartments - 2013



Schönburg - Berne - 142 apartments - 2019

## eSMART, **Swiss made,** guarantee and services included

The people who make up the **eSMART** team make the satisfaction of their clients and occupants their priority in each project stage: conception, realisation, delivery and after-sales service.

Born in the laboratories of the Swiss Federal Institute of Technology in Lausanne (EPFL), **eSMART** solutions and their components are 100% **designed in Switzerland**.

### Easier installation and maintenance

A customised service in delivering components per project and per apartment makes the installing and commission by the electrician easier.

The whole **eSMART installation is guaranteed for 2 years**.

**eSMART** also has a supervision service of all properties remotely to make the remote after-sales service easier and offers onsite intervention if needs be. This service allows to immediately identify any faults or defects, to be resolved without causing any inconvenience to the occupant.





Quartier GreenCity – Zurich - 297 logements - 2019



**eSMART, leading provider of solutions for connected, sustainable housing**



**Don't wait to find out more and contact your electrician.**

Check out the **eSMART** website that will put you in touch with a competent fitter. Download and try the **eSMART-demo** demonstration application as well as the **eSMART-live** application for iPad at the Apple Store.



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