# Give your buildings a new dimension
## Multi-site supervision for chain stores



"Give your buildings a new dimension" enables commercial buildings to improve energy and assets management.

Multi-site installations easily achieve cost savings by leveraging cloud solution.
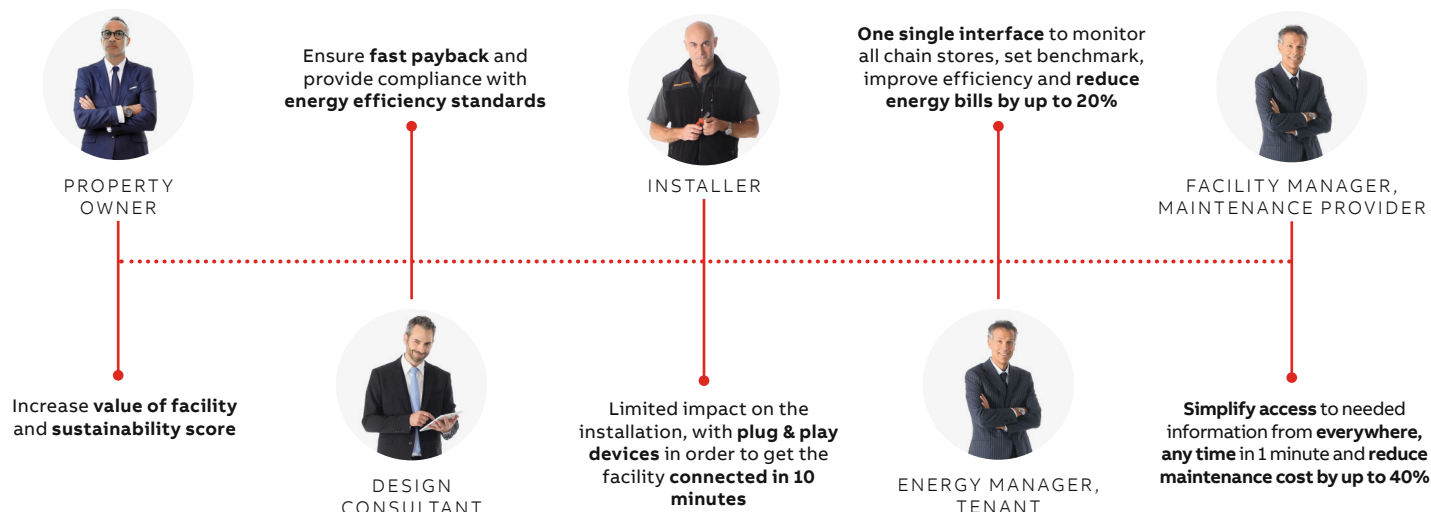
**Use case description**

Whether in a shopping mall store or in a network of stores spread around different locations, a pervasive energy monitoring and cost allocation is more and more required. Key insights on power and energy consumption, as well as cost indicators, can be fundamental to drive down operational expenditures for a chain of grocery stores, supermarkets, retailers, or network of branches for Banks and Post offices.

Also, a single cloud-based interface and data collection system to monitor multiple sites, enabling

benchmarking, automatic reporting and proactive alerting, can lower significantly investments and upfront expenditures in legacy systems in both new and existing sites.
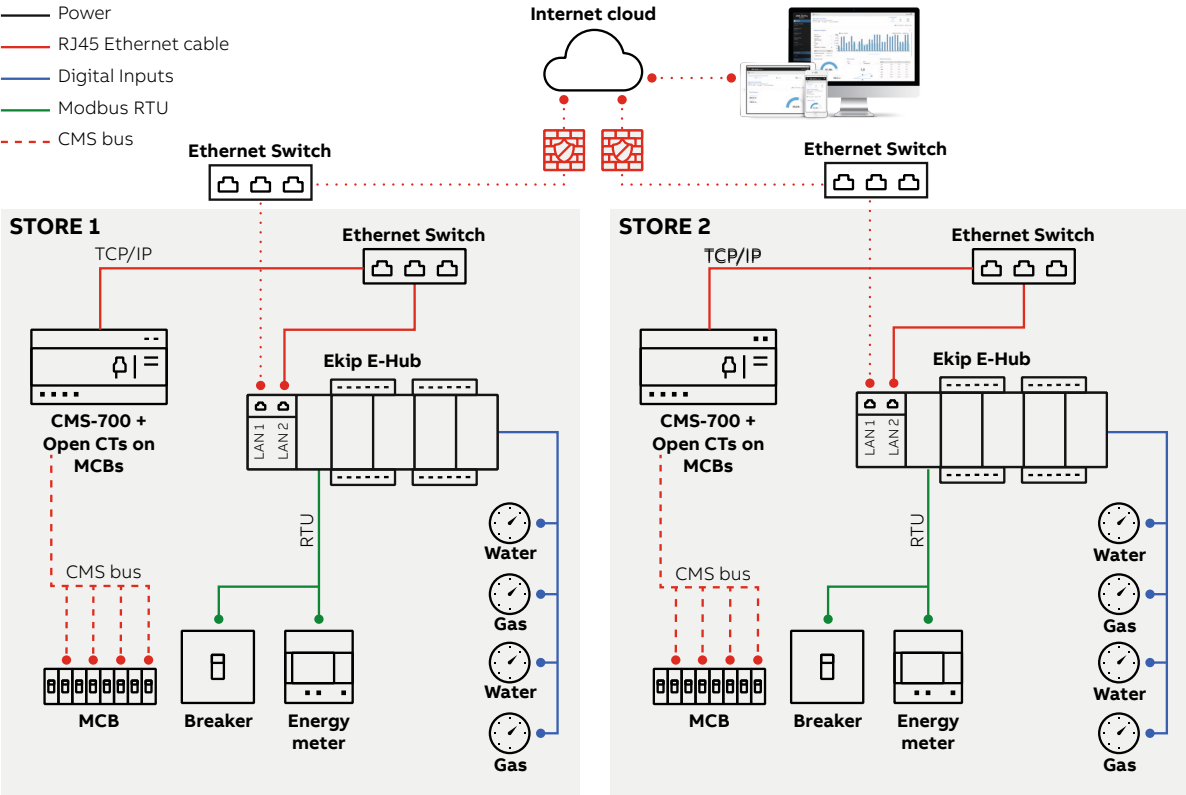
Not only electricity consumptions would be collected, but also water and gas consumptions to the same access point. Inefficiencies are spotted, wastes minimized, sites maintenance is optimized, from scheduled to need-based, with access to information anywhere, anytime.



Ensure **fast payback** and provide compliance with **energy efficiency standards**

PROPERTY OWNER

One single interface to monitor all chain stores, set benchmark, improve efficiency and **reduce energy bills by up to 20%**

INSTALLER

FACILITY MANAGER, MAINTENANCE PROVIDER

Increase **value of facility** and **sustainability score**

DESIGN CONSULTANT

Limited impact on the installation, with **plug & play devices** in order to get the facility **connected in 10 minutes**

ENERGY MANAGER, TENANT

**Simplify access** to needed information from **everywhere, any time** in 1 minute and **reduce maintenance cost by up to 40%**

**"Give your building a new dimension" ABB solution**
Monitoring any store requires only an analogue installation. Water and gas consumption data are gathered from dedicated meters and sent digitally to the E-Hub. Electrical data and measurements are collected from energy meters, breakers and CMS-700 devices and

transmitted to the E-Hub via Modbus RTU. At the core of the solution, the Ekip E-Hub mounted on the DIN rail gathers all the incoming data.

Data from all the stores then goes to the cloud via Ethernet or wireless connections for further analysis.

**Suggested connection diagram**



**Shopping list**

| Components | | What it does | Quantity | Additional information |
|---|---|---|---|---|
| Connection to the system | EKIP E-HUB | Data collection from field devices and access point for communication to the cloud | 1 per store | |
| | CMS700 | Control unit and sensors for branch circuit monitoring | According to number of lines to be monitored | Click here for more information |
| Connected devices | ENERGY METER | Provides fundamental measurements to monitor and control electricity consumptions and costs | According to consumption points to be monitored/billed | Click here for more information |

—
**abb.com/energy-buildings**