



# Upgrade switchboards and convert them to digital

“Monitor it, Secure it, Tag it”

## Customer case

Fabio is a facility manager. The electrical network he's in charge of, has been designed years ago with limited capability for energy monitoring and metering features.

Fabio would like to be aware of the condition of the electrical network to:

- understand better the energy consumptions and waste,
- engage preventive maintenance,
- identify origin of trouble in case of network issues, and return to service faster to minimize downtime.

As a result, bringing monitoring features, would help Fabio to improve his installation efficiency and power availability.

## Our recommendation

Upgrade existing switchboards with PowerTag System. Combine wireless devices together with one single point of aggregation to:

- monitor and measure electrical loads and be notified when needed,
- help prevent electrical fire due to cable overheating inside panelboards,
- display instant values locally on switchboard,
- make data available to supervision system,
- push data to the cloud and benefit from Schneider Electric expertise thanks to EcoStruxure solutions.

## Benefits

### For installer:

- Easy and fast installation thanks to wireless technology.
- Adapted for limited space inside existing switchboard thanks to reduced footprint.
- Installation possible with no dismantling of power cables and busbar.
- Intuitive and simple commissioning through embedded web page or EcoStruxure Power Commission.

### For facility manager

- Manage and analyze energy consumption wisely and contribute to ISO 50001 with high level of accuracy (class 1 according to IEC 61557-12).
- Monitor electrical loads from a computer and be notified when needed thanks to email notification through a Local Access Network (LAN).
- Localize and identify faster shut down origin.
- Get access to data in the way you need:
  - with local display and web page (instant values),
  - with your existing supervision system,
  - with cloud based Schneider Electric Digital services.

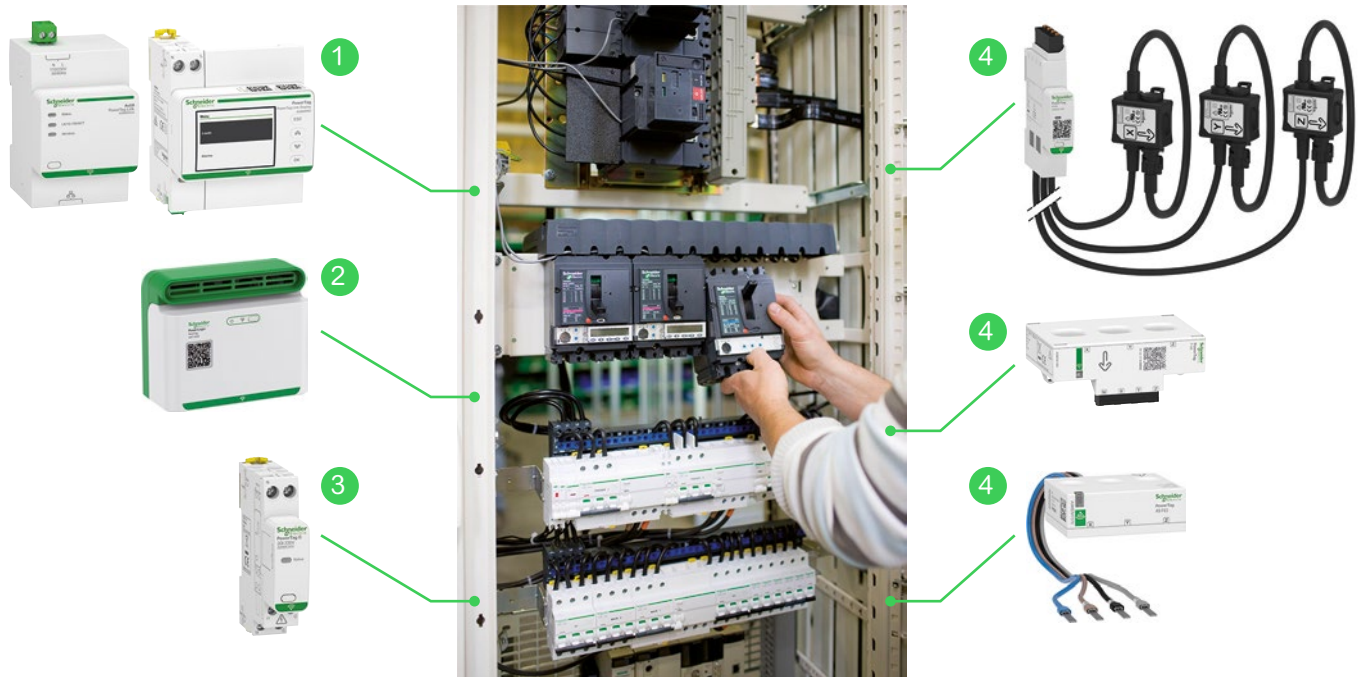
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# Solution

## Which devices to modernize existing switchboards?



## PowerTag System is made of:

- 1 PowerTag Link is a gateway that processes and pushes data to local network. PowerTag Display is an optional wireless local HMI. Other gateways are available to connect to Schneider Electric cloud applications.
- 2 HeatTag is a smart sensor for early detection of overheating wire connections or overheating cables. It analyzes gas and particles in the air and sends alerts. Availability date: Q4 2020.  
**Important:** Do not use HeatTag as a safety device. HeatTag does not replace the fire protection devices of the building.
- 3 PowerTag Control: monitor status of circuit breakers and other devices via wireless input.
- 4 PowerTag Energy sensors: space-saving, accuracy class 1, measure voltage, current, power and energy. Allow detection of voltage loss and overcurrent.

Products used		
Product	Function	Reference
PowerTag Link	Gateway up to 20 wireless devices	A9XMWD20
PowerTag Display	Wireless display	A9XMWRD
PowerTag Energy	Energy sensor 63 A to 630 A	Depend on model
PowerTag Energy	Energy sensor Rope 200 A to 2000 A	A9MEM159•
PowerTag Energy	Energy sensor Flex 160 A	A9MEM1580
PowerTag Control	2 Digital Inputs module	A9XMC2D3
HeatTag	Wireless sensor for early detection of overheating cables	SMT10020

More about  
PowerTag System



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