tagawatt
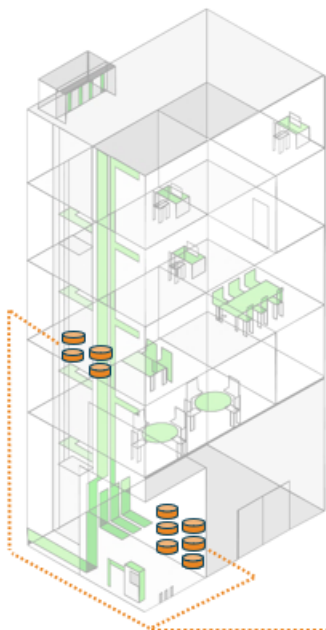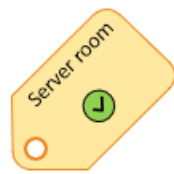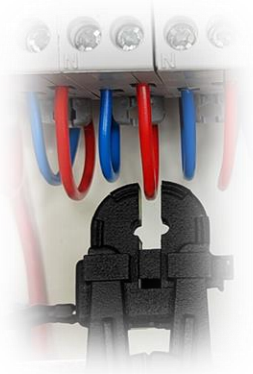
Plug&Play submetering

- Monitoring energy consumption

- Detecting reduction opportunities

- Controling real savings

Heat pump · Lighting · Lighting · Server room · Solar PV

NB-IoT · LTE-M · LoRaWAN · Modbus TCP/IP

Plug&Play: Easy and fast, installed in 15 minutes instead of hours!

Accurate: Measures precisely the real (active) power every second

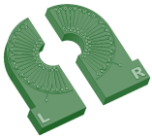**Universal**: Compatible with all electrical installations

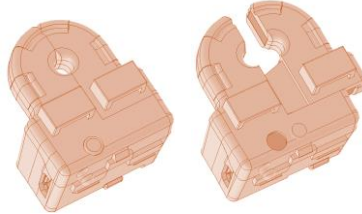**European**: Designed and manufactured in France

Patented: multiple innovations protected by Patents

*A collection of innovations
simplifying the measurement and monitoring
of disaggregated energy consumption*

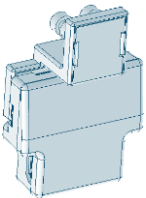1. Tiny half-Rogowski PCBs => minimal size, no saturation

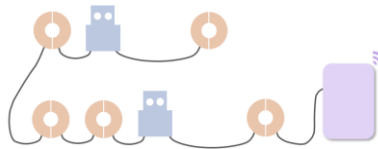2. watTag: Current clamp that can open on the front (half-Rogos inside)

3. Special plyers to position the clamps => keeping the fingers away from the hot wires

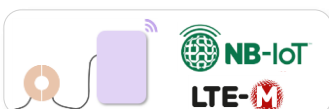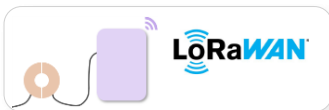4. volTag: Measures voltage on circuit breaker screws

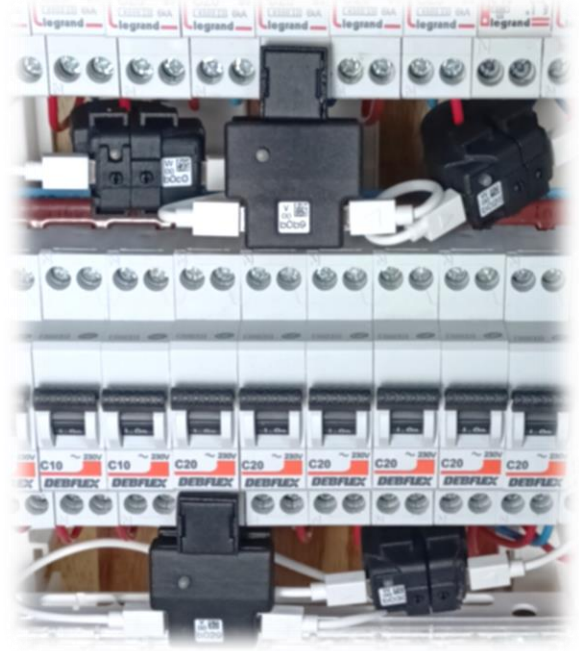5. Daisy chain to connect the watTags and volTags => no wire tangle mess

6. Easy configuration, locally and remotely

7. Multiple architectures to transfer consumption data

LoRaWAN

LoRa   NB-IoT
       LTE-M

NB-IoT
LTE-M

LoRa   Modbus TCP/IP
       Wi-Fi

tagawatt
Demo building ID: 00000003
Send mode   NB-IoT
⚡ watTag 3   📍 volTag 2

1. ⚡ 0000ae0b **Heat pump** v1.0.1
   5.   📍 0000ae10 **phase 1**

2. 📍 0000ae0a **phase 2** v1.0.1

3. ⚡ 0000ae0c **Lighting** v1.0.1
   5.   📍 0000ae10 **phase 1**

4. ⚡ 0000ae0d **Solar PV** v1.0.1
   2.   📍 0000ae0a **phase 2**

5. 📍 0000ae10 **phase 1** v1.0.1
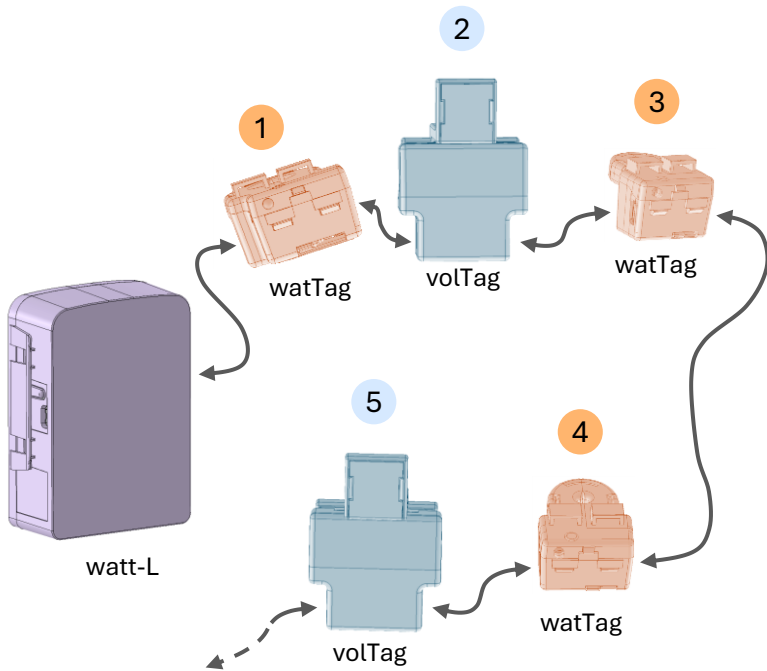
Installation and configuration

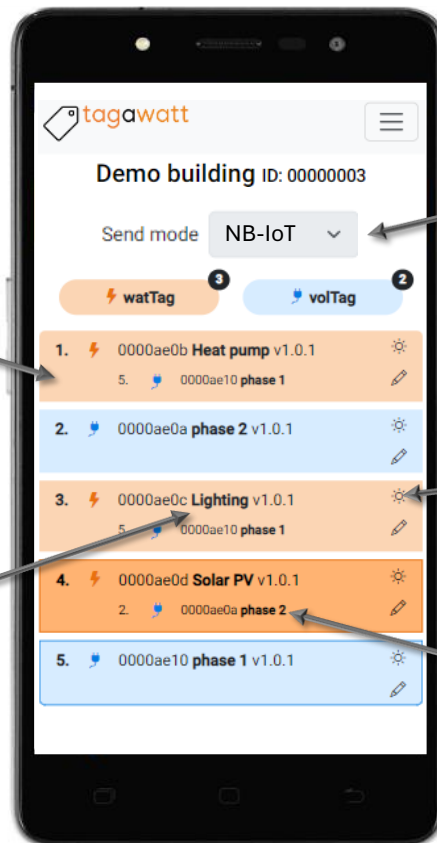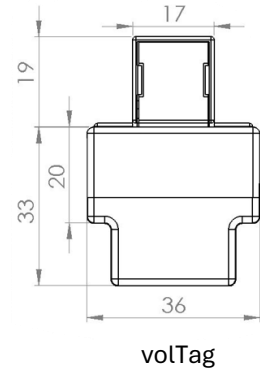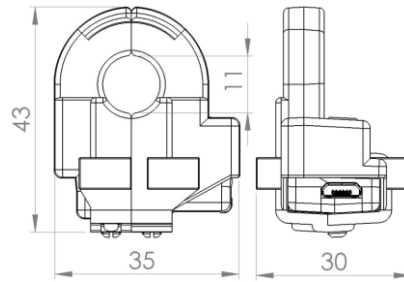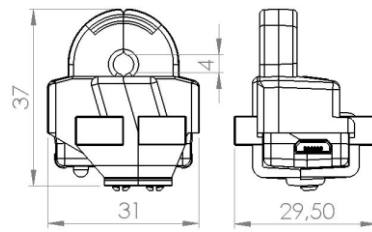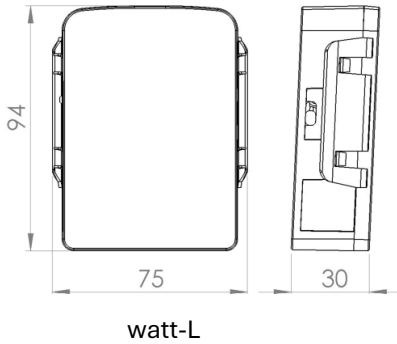watTags and volTags appear in the list whenever you connect them to the daisy-chain

Name a tag whenever you want

Specify which data collection technology you want to use (NB-IoT, LoRaWAN, LoRa local...)

Make a tag blink to spot it rapidly

Tell a watTag which volTag it should use to calculate the active Power

watTag_S (Small)

watt-L

watTag_M (Medium)

volTag

Technical characteristics		
Fonction	watTag_S wire <= 2,5mm^2	Current measurement, active power calculation
	watTag_M wire <= 10 mm^2	
	volTag	Voltage measurement
	watt-L	Local and remote configuration Data remote transfer
Measurement	Active power every second	
Available values	Active energy over 1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes... *Minimum 10 minutes for LoRaWAN*	
Uplink frequency	NB-IoT / LTE-M	Configurable
	LoRaWAN	Same as available values
Configuration	Locally	NB-IoT/LTE-M or special cable for PC/android phone
	Remotely	NB-IoT/LTE-M
Power supply	Mains supply	5V adapter
	Batteries (optional)	2 replaceable batteries (3,6V) for temporary supply
Data transfer architectures	NB-IoT/LTE-M	Transmission using the cellular network, replaceable nano SIM
	LoRaWAN	Transmission to an operated LoRaWAN Network or a private LoRaWAN gateway
	LoRa local to F-Bridge	LoRa point-to-point transmission to an F-bridge (bridge to NB-IoT/LTE-M)
	LoRa local to F-Link	LoRa point-to-point transmission to an F-Link (bridge to Ethernet, WiFi or Modbus TCP/IP)