

NETIO

Networked power sockets

Wireless power socket applications 2019

www.netio-products.com

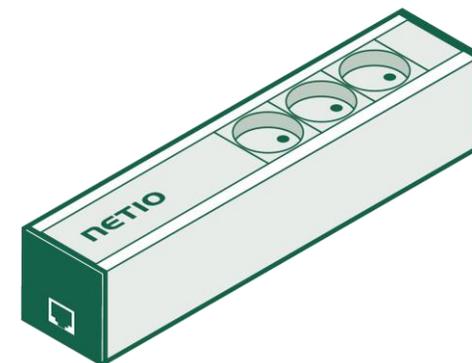
OUR PRODUCTS

NETIO

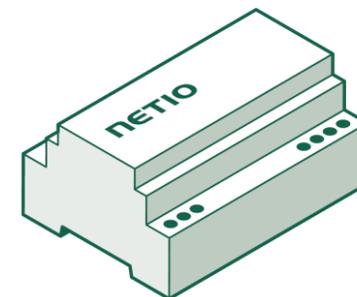
Networked power sockets



NETIO 4 / 4All



PowerBox 3Px



NETIO PowerPDU 4C

PowerCable family 101x

PowerDIN 4PZ

NETWORKED POWER SOCKETS

Devices to measure energy consumption and switch ON / OFF the power socket over the network.

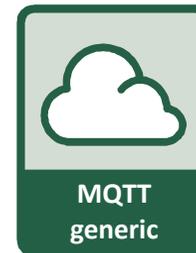
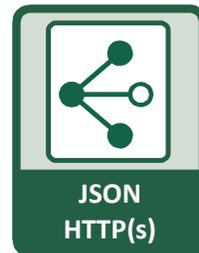
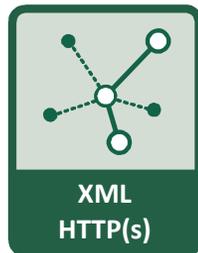
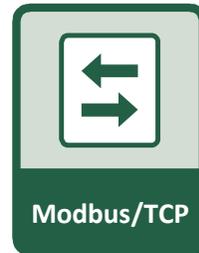
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Smart power sockets with Open API (M2M)

- NETIO is unique by so many M2M protocols
- Each protocol is used in different business segment
 - **Industrial** projects
 - **IT** (energy / remote restarts / power consumption)
 - **Cloud** oriented solutions



2 different protocols
HTTP + HTTPs



Why is good to have Open API - 13 protocols?

Logos included in the collage:

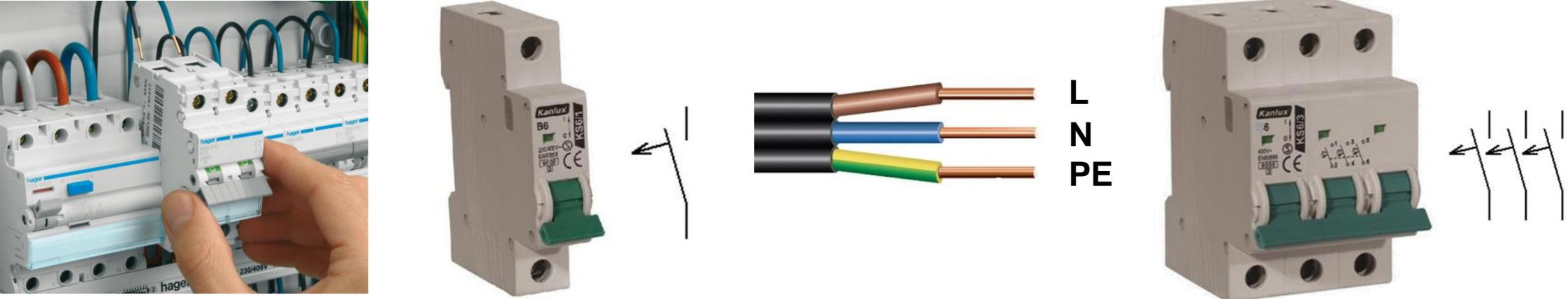
- amazon web services
- Microsoft Azure
- IBM Watson
- Google Cloud
- mySCADA
- Reliance Industrial SCADA/HMI system
- jSCADA
- ABB
- UNIVERSAL ROBOTS
- PROMOTIC
- Wonderware
- Hms
- SIEMENS
- MicroSCADA Pro 10 000 systems around the world
- open SCADA
- CACTI Nagios
- EVENTSENTRY
- ManageEngine OpManager
- Kaseya
- PRTG Network Monitor
- domotz
- ZABBIX
- IPSWITCH WhatsUpGold IT MANAGEMENT MADE SIMPLE
- solarwinds
- SNMPv3
- LOXONE
- SAP
- RaspberryPi
- labgrid
- Domoticz control at your fingertips.
- CRESTRON
- cue Extron
- openHAB empowering the smart home
- AMX by HARMAN

Protocols listed in the panels:

- MQTT
- Modbus/TCP
- SNMPv3
- JSON HTTP(s)
- XML HTTP(s)
- Telnet

Why networked PowerSockets?

- 230V for **Electrician / Electrical engineering** people:



- 230V for **IT** people:

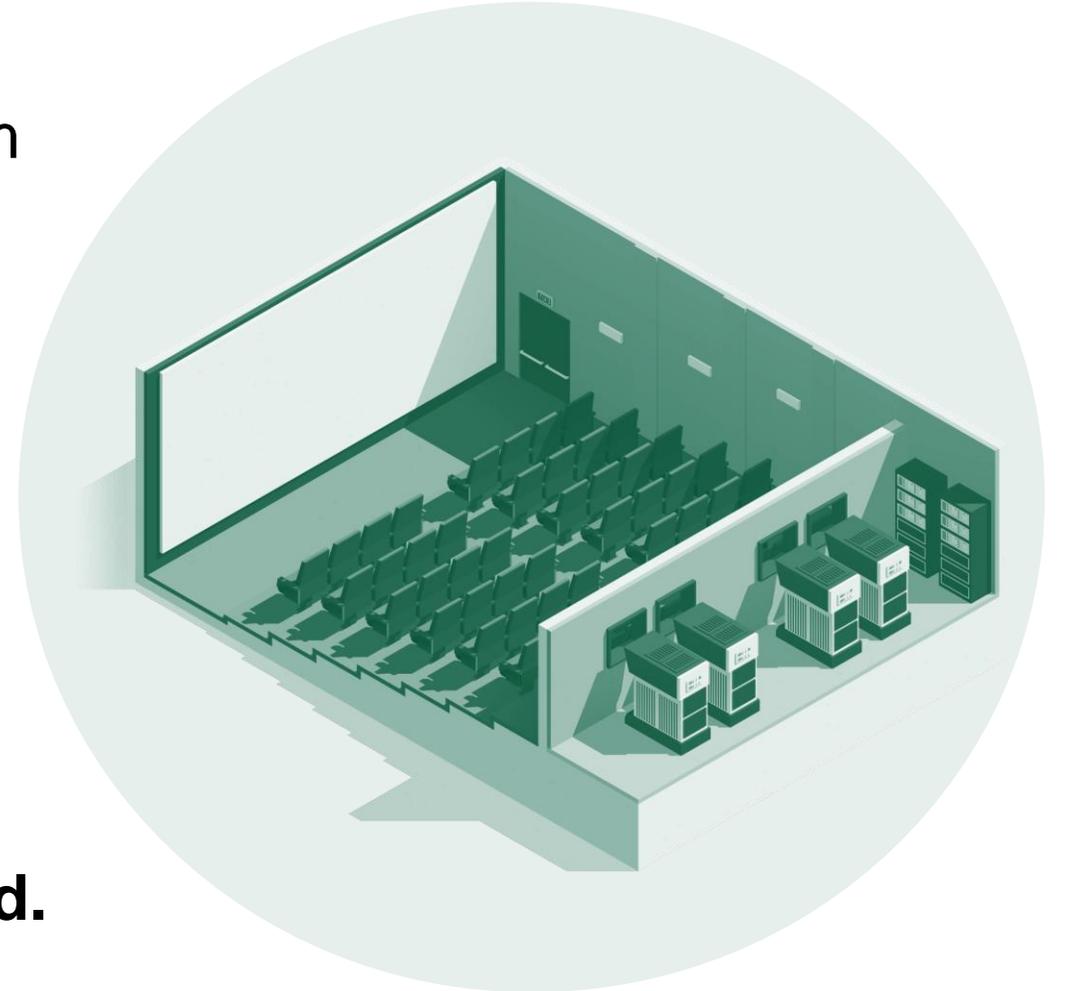


Use case: Movie theaters (kino)

The audio system in a cinema viewing room of a multiplex consumes electricity even when no film is being shown and no music is playing.

The customer uses NETIO 4 to disconnect individual parts of the audio system. When there is no show, there is no need to power the audio system.

Approximately 38% of electricity is saved.



Use case: Electrical water boilers in France

Hotel park of independent villas.

- Each house has its own water heating electric boiler.
- Every boiler was originally **switched On for 200 days** from year.
- Average usage of the villa was around 100 days. = 50% of energy was wasted.
- 18m³ of water is heated every day for nothing!
- HiBou project is switching 230V power for each boiler only when the villa is occupied.

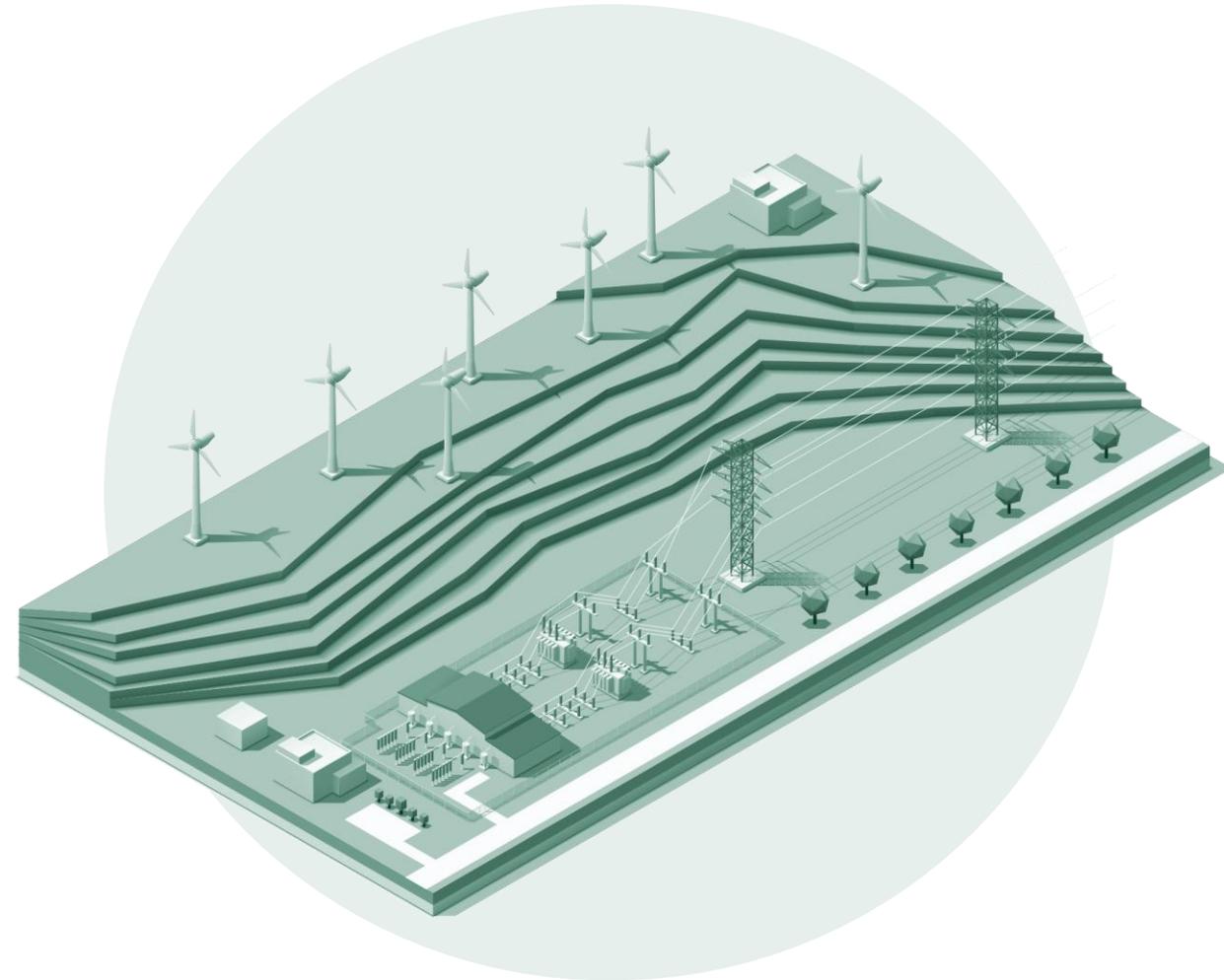


Usage case: Wind power plants – remote restarts

NETIO 4 can control the power for technological devices installed on remote sites.

The Windmill companies are using NETIO networked power sockets to restart or activate some technologies on the wind farms, where is complicated access.

Even there is electrical cabinet with DIN rail, it can be cheaper sometimes to use LAN based power sockets..



Use case: Advertising kiosks / Vending machines



NETIO power sockets with a timer function switch ON or OFF an advertising booth or various vending machines at appropriate times.

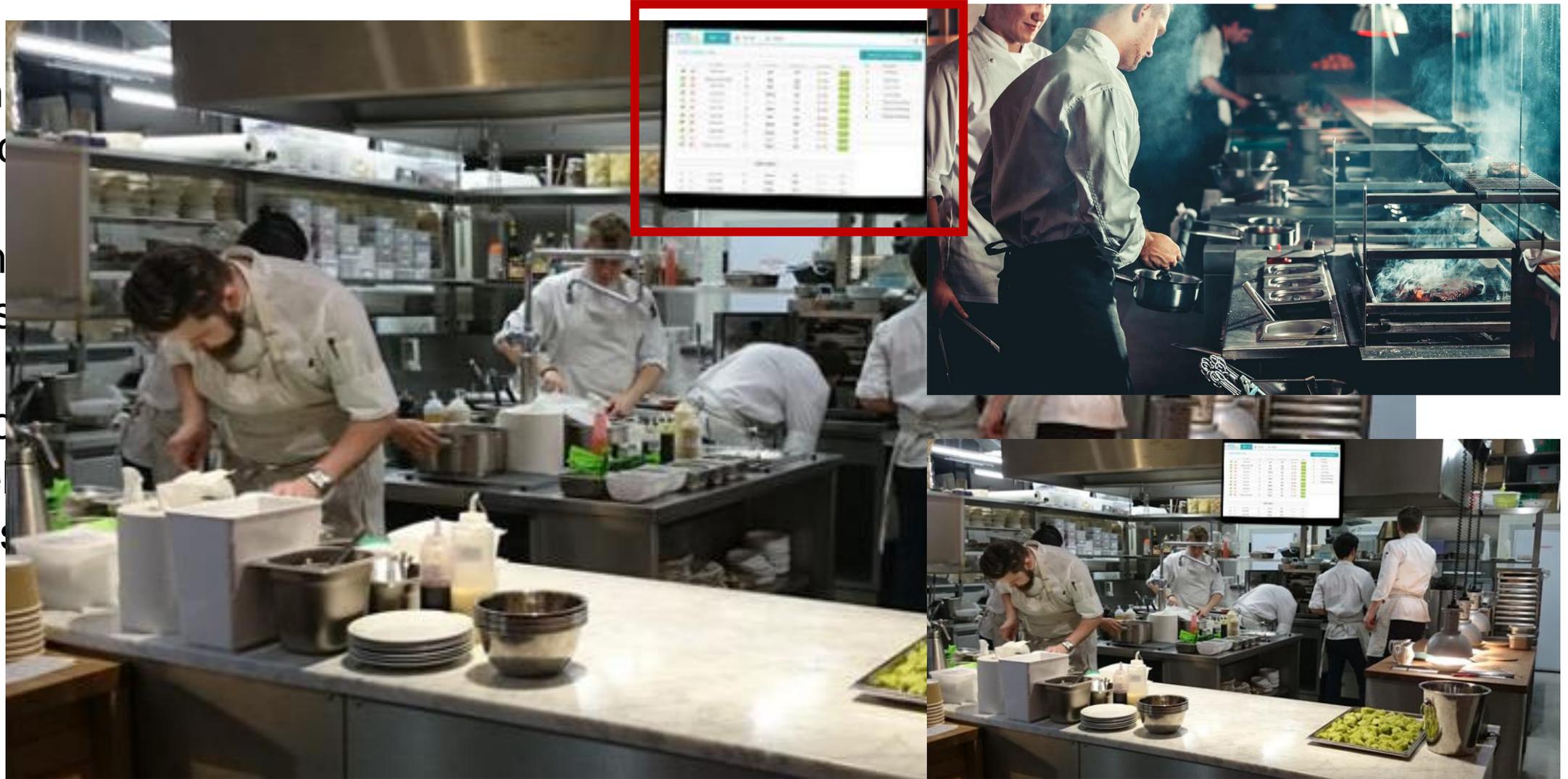
Why to do it?

- To have possibility restart it remotely.
- save electricity (30% of time)

Use case: Shared Kitchen

Event
service

- Shared
resources
- Multiple
hosts
customers



Usage case: Audi showroom

The automobile maker Audi company uses NETIO smart sockets to control the Light & Sound effects in their car-show.

Around 80 NETIO smart socket units controls the lights, background music, and so on.

Based on LAN it's possible to pack whole car-show and move it easy to another location (Auto Show Geneva / Frankfurt / Paris / ...)



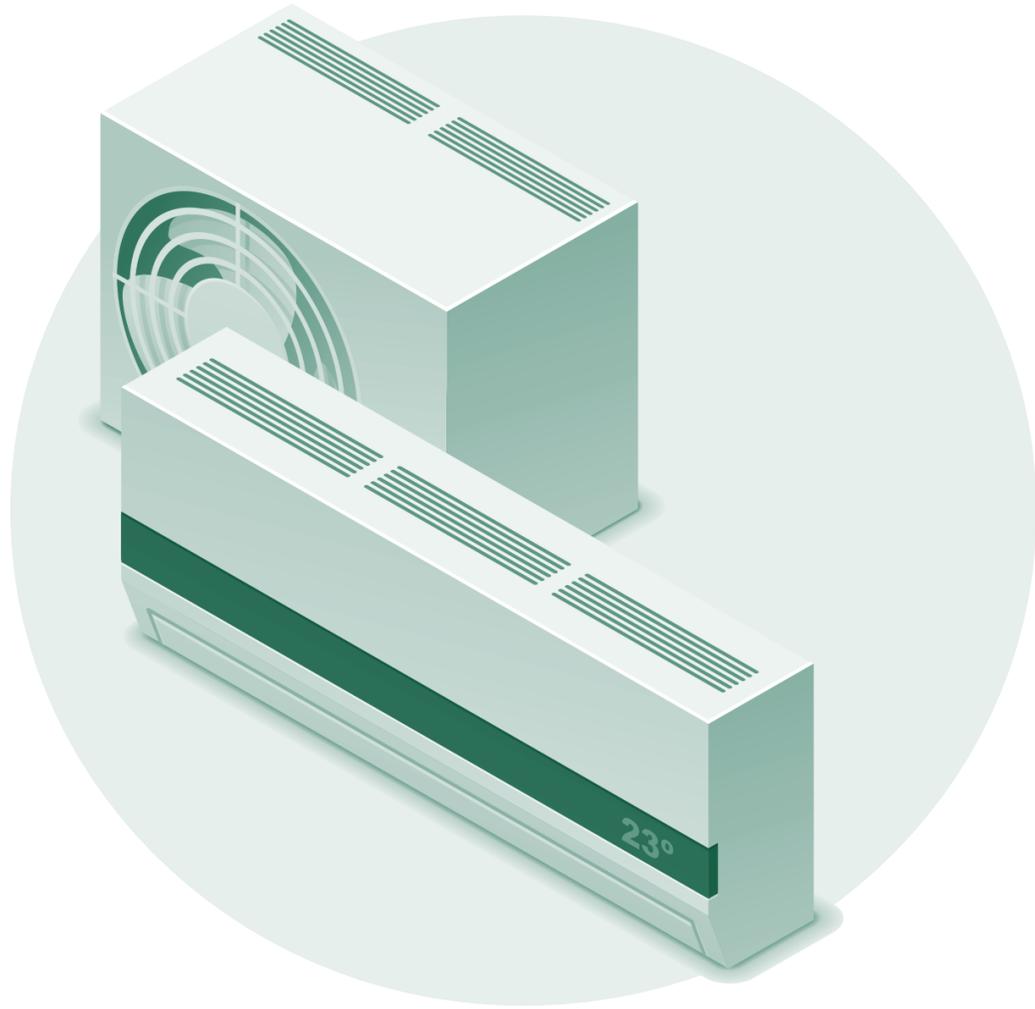
Use case: Freezers in hospitals

There are thousands freezers in one hospital.

- Each one should be monitored for case of the failure and biological material inside will be damaged.
- Electrical power alert you about the coming soon problem before the trouble happened.
- Power consumption of freezers can be from 15€ / year up to 50-60€ / year.
- But facility manager have there hundreds of them and don't know whis one of them should be replaced by new one..



Usage case: Activate the BackUp A/C (Air Conditioning)



The customer operates a small server room with too low-cost air-conditioning (not designed to 24/7). It sometimes stops working (filter, ...).

The temperature in the room is measured with an IP thermometer (3rd party product), and a simple Lua script checks the temperature every 10 seconds.

Whenever the temperature rises to 25°C, a backup air-conditioning unit is switched on to lower the temperature again.

Use case: Shared Laboratories

You can analyze equipment usage by its power consumption..

Simple WiFi / IQRF power socket with metering will provide you usage charts..



Usage case: Smart IT infrastructure

NETIO 4 allows you to restart devices remotely.

The **IP WatchDog** function allows to automatically reset the power to a switch, router, or microwave link when ping not received. (Internet connection failure).

NETIO 4 **save energy** by deactivating power for non-used devices, or during office closed time.



Usage case: Environmental applications

NETIO 4 smart sockets make it easy to implement a “**night**” or “**weekend**” mode.

NETIO are smart power sockets, so it's possible to switch on devices even on the weekend based on fact the central printer is ON for example..

It can be additional lamp, or any other electrical device..

It's all about **integration with 3rd party** system..



**THANK YOU
FOR YOUR ATTENTION**

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