



Energy Pool Telecontrol solution

Flex-Box : Connecting flexible assets to capture maximum value



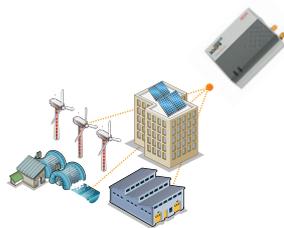
Energy Pool telecontrol solution Flex-Box enables **automated, secured and reliable** connectivity between your Distributed Energy Resources Energy Management System (DERMS) and flexible assets.



1

CONNECT

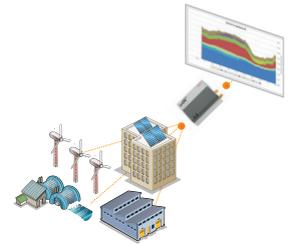
Flex-Box can be connected to all kind of flexible assets: industry process, commercial and services, renewables, distributed generation.



2

MONITOR

Once Flex-Box is connected, you can access to real-time monitoring and automated signals can be sent from your DERMS to assets.



3

OPTIMIZE

Flex-Box enables real-time operations and advanced aggregation strategies.

From Flex-Box to operation services



Energy Pool DERMS

- > **Monitor:** real-time monitoring and data storage (e.g., electrical consumption & production, temperature, process status, etc.)
- > **Optimize:** each asset availability is monitored to enhance aggregation and maximize revenue.
- > **Activate:** real-time management of demand response events (semi- or fully-automated).

Energy Pool Flex-Box : Reliable and highly customizable



Our Flex-Box is customized according to each asset constraint and requirement:

- > **Inter-operability:** multi-interface and protocol conversion
- > **Local Programming intelligence:** real time management of demand response events (semi or fully-automated)
- > **Open technology to specific developments**
- > **Robustness to industrial environment**
- > **Security:** advanced data encryption and secured access

Technical Specifications

SYSTEM

Linux - Yocto
ARM Cortex A5, 550MHz

HARDWARE

Power supply: 5 to 32 VDC
Weight: 158g
Dimensions: 75 x 60 x 32 mm
T° range: -30°C to +75°C
Casing: DIN rail or screw terminals

INTERFACES

3G/2G/(4G LTE optional)
1 x Ethernet
3 x configurable IOs:

- > 1 x DI
- > 1 x DI or AI
- > 1 x DI or DO

PROTOCOLS

VPN SSL/TLS
DNP3
MQTT (TLS encryption)
Modbus TCP & RTU
dlms
IEC 62056
OPC UA
TIC - Enedis (French DNO)

1 x mini-USB
1 x slot for an additional interface:

- > +1 x Ethernet
- > or +1 x Serial RS485
- > others on demand (GPIO, LoRa, Sigfox, wifi, etc...)