

Non technical losses detection and location on Low Voltage networks



Legacy situation: losses that are difficult to detect

Diffuse network, unknown location and quantification of losses

- Cannot prioritize search areas during campaigns
- "Blind" research, time-consuming and complex, therefore expensive



Non-technical losses may represent up to 1.2 k€/substation/year



Our solution: current-voltage inconsistencies analysis

- ✓ Only from smart meters data (powers & voltages)
- ✓ Business software, allowing to locate and quantify:
 - The unmetered energy at end user's level (or between end users)
 - The total energy really supplied by the MV/LV substation
- ✓ Results available directly in your GIS, or on our webapp

1 Smart meters data harvesting

GDPR + cybersecurity

2 ARTIFICIAL INTELLIGENCE & BUSINESS EXPERTISE

Network characteristics identification

3 Support for area prioritization within Non technical losses searching campaign:

- Losses area location
- Missing energy quantification



Reliable and accurate results

- ✓ Detection of missing power from the first kW
- ✓ Reconstruction of the actual substation's load profile at 20%



Direct benefits

- ✓ Improved efficiency of field teams => saving **1€/meter/year**
- ✓ Detection of additional losses => saving **4€/meter/year**
- ✓ Losses estimated at **12€/meter/year** => ROI of 18 months