

## Accelerate grid digitalisation and serve your customers 24/7

We offer best value and innovative IoT solutions to monitor your MV/LV grid and localise faults efficiently.

### Our solution →

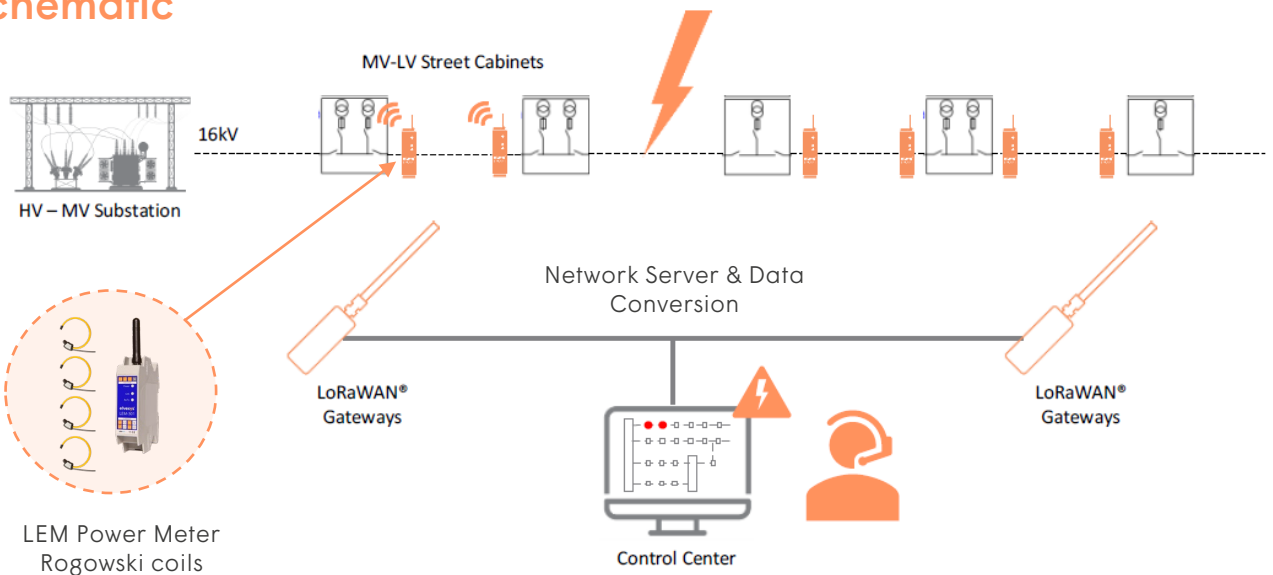
Smart, wireless LoRaWAN power meters deployed at MV/LV stations, communicating through a private or public LoRaWAN network with your SCADA system.

**It's simple and effective.**

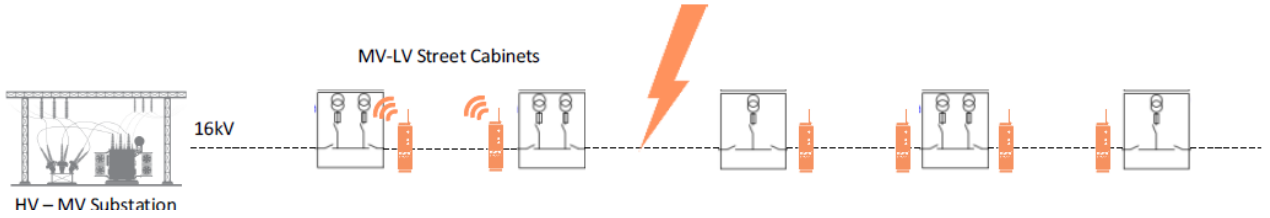


- ✓ **Monitor your grid cost effectively 24/7**  
Get an overview of feeder and equipment loading
- ✓ **Increase primary equipment lifetime**  
Reduce re-switching by localising faults
- ✓ **Reduce interruption time by up to 98%**  
Localise faults in seconds instead of hours, fully remotely
- ✓ **Have your own LoRaWAN network**  
Offer services, read water, gas meters and other sensors

### Schematic



## Functioning

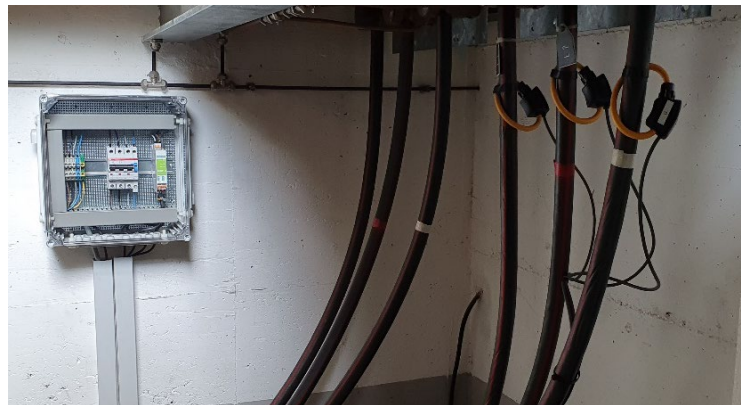


## Normal Operation

- Current measurement | Each 15 min

## Fault event

- 1 Fault ⚡
- 2 Current peak measured
- 3 Feeder shut down
- 4 Transmission to SCADA



## Reference Case

### COIKEN

Switzerland, Wallis Canton, Multi Utility DSO

### Challenges →

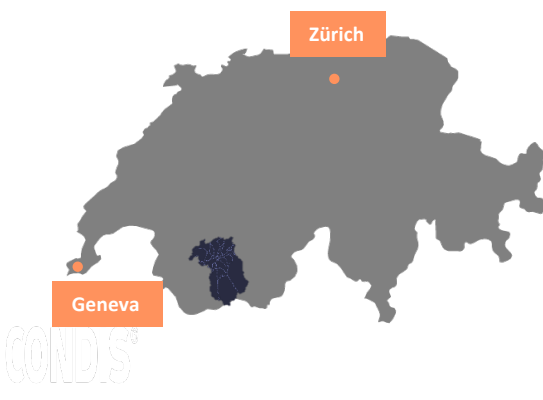
Monitor cost effectively the electricity loads and reduce interruption time by localising faults in the MV network

Semi Urban & Rural Network with long MV feeders supplying electricity in the valleys.

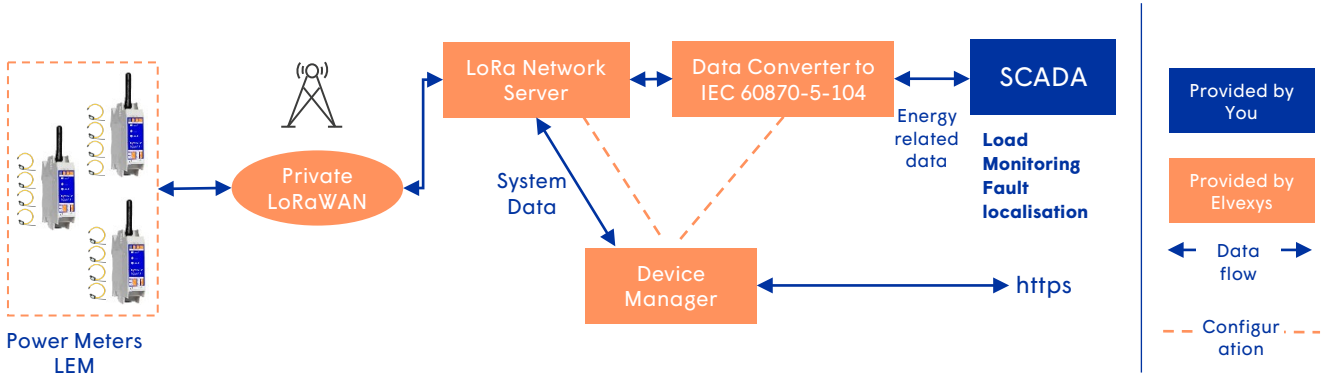
**Oiken's private LoRaWAN<sup>®</sup> network deployed**  
Gradual extension of coverage over the territory

**20 LEM-302 in operation**  
Deployment of 100 in progress

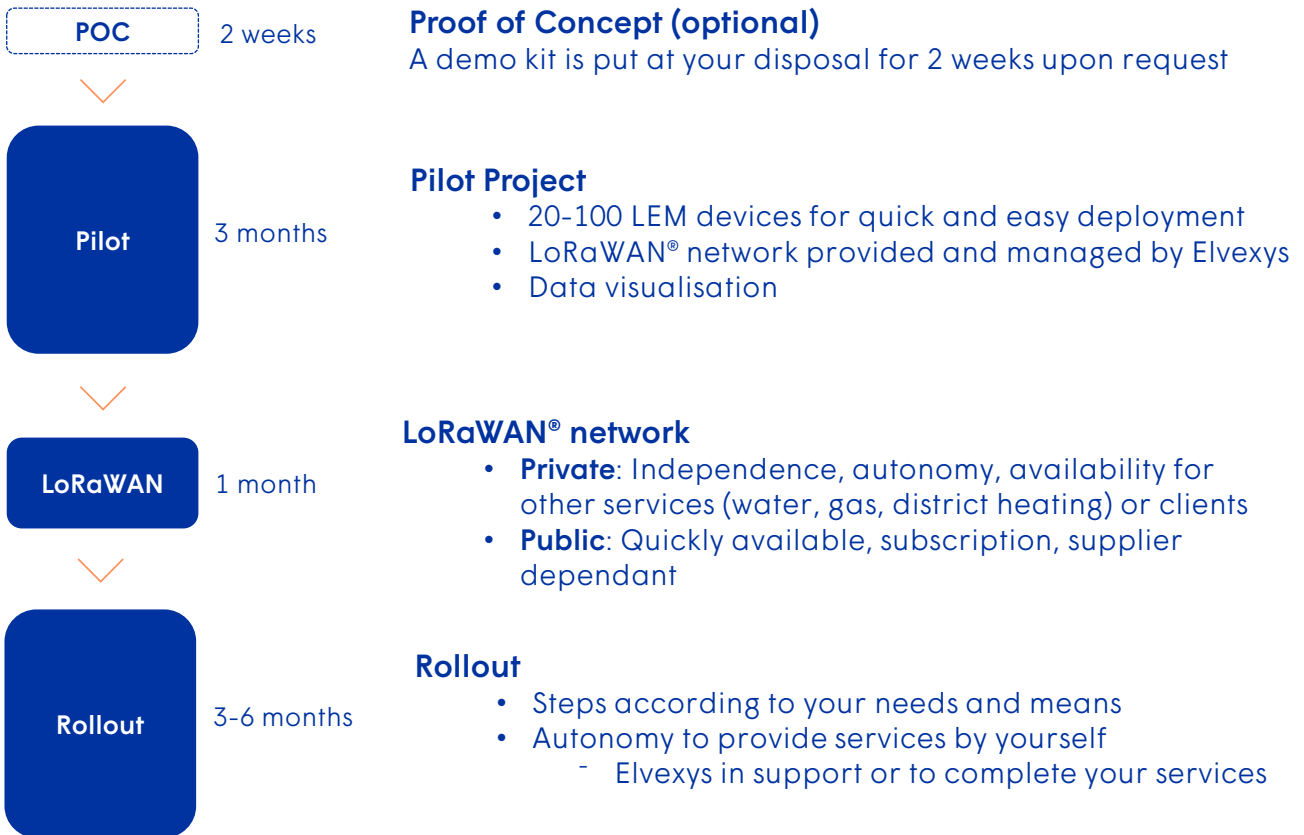
**Data provided to the SCADAs**  
via IEC 60870-5-104



## Integration into your environment



## How to get there with us ?



## Would you like to get more information ?

We would be happy to discuss your specific needs and evaluate together how you could benefit from Elvexys' best value, innovative IoT solutions.

**Peter Racz**  
Business Development  
Tel: +41 79 291 58 49  
[peter.racz@elvexys.com](mailto:peter.racz@elvexys.com)