

## Customer

As Baden-Württembergs biggest company in the field of power, gas and water supply, the Netze BW GmbH stands for secure, reliable, efficient and cost-effective supply as well as customer oriented network service.

Employees: approx. 4.000  
 Substations: approx. 300  
 Sec. substations: approx. 25.000  
 Demand on digital substations: 15-20% of existing substations

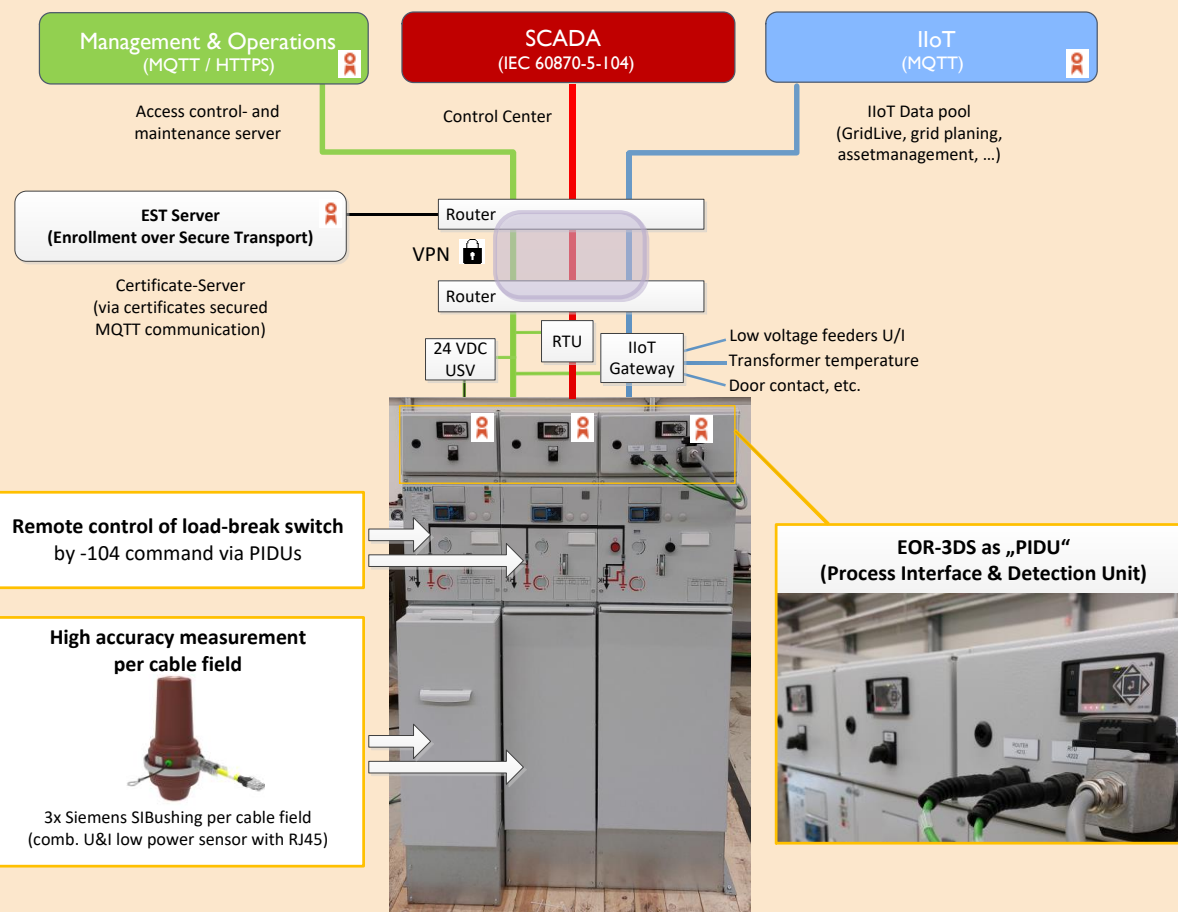
Installation:  
 By 2025 approx. 700 local substations planned, 4000 in total

Customer: DSO

Country: Germany

Author:  
 Gerald Jacob, 08/2022

## Application



## Technical Solution A. Eberle

### EOR-3DS = PIDU – Process Interface&Detection Unit

#### Completely digital connection, no serial Interface

- a.) All three communication paths run in parallel in EOR-3DS
- b.) M&O and IIoT communication via certificates
- c.) Delivery with manufacturer certificates signed by the DSO

#### Remote control of the load break switch

- a.) Customer-specific via background program
- b.) Incl. monitoring functions and interlocks

#### Compatible with new Siemens SIBushing

- a.) Total accuracy sensor + device < 1,0%
- b.) Incl. temperature monitoring during execution
- c.) Connection of the sensors via RJ45 directly to EOR-3DS

## Customer Feedback

Roll-out starts Q4/2022!

A partially customer specific development and regular assessments, also together with the switchgear supplier Siemens AG, led to the decision (assignment), but also to the final solution of the PIDU (EOR-3DS) in the future.