

ABB AG - Calor Emag Medium Voltage Products

# Medium Voltage Solutions Modular Systems

# Medium Voltage Solutions

## Modular Systems



- ABB offers MV Switchgears as turn-key Solutions
  - Care-free Packages
  - ABB's 'Modular System'
- Such Projects includes ...
  - ABB MV Switchgear
  - Other ABB products
  - Non-ABB products
  - Services (especially project and site managers)

# Medium Voltage Solutions – Modular Systems

## Product scope



ABB MV Switchgear (ZX, UniGear, ZS8.4, SafePlus)

- Other ABB products
  - Distribution transformers (Liquid filled, Dry, type RESIBLOC)
  - $I_s$ -Limiter and UFES
  - Basic station automation (Com or RTU)
  - Low voltage switchgears (MNS, TriLine)
- Non-ABB products, e.g.
  - Cables, Cable tracks, Fire walls,
  - Earth termination system,
  - False floor,
  - DC supply / Battery back-up
  - Concrete stations (compact/ walk-in)

# Medium Voltage Solutions – Modular Systems

## Service scope

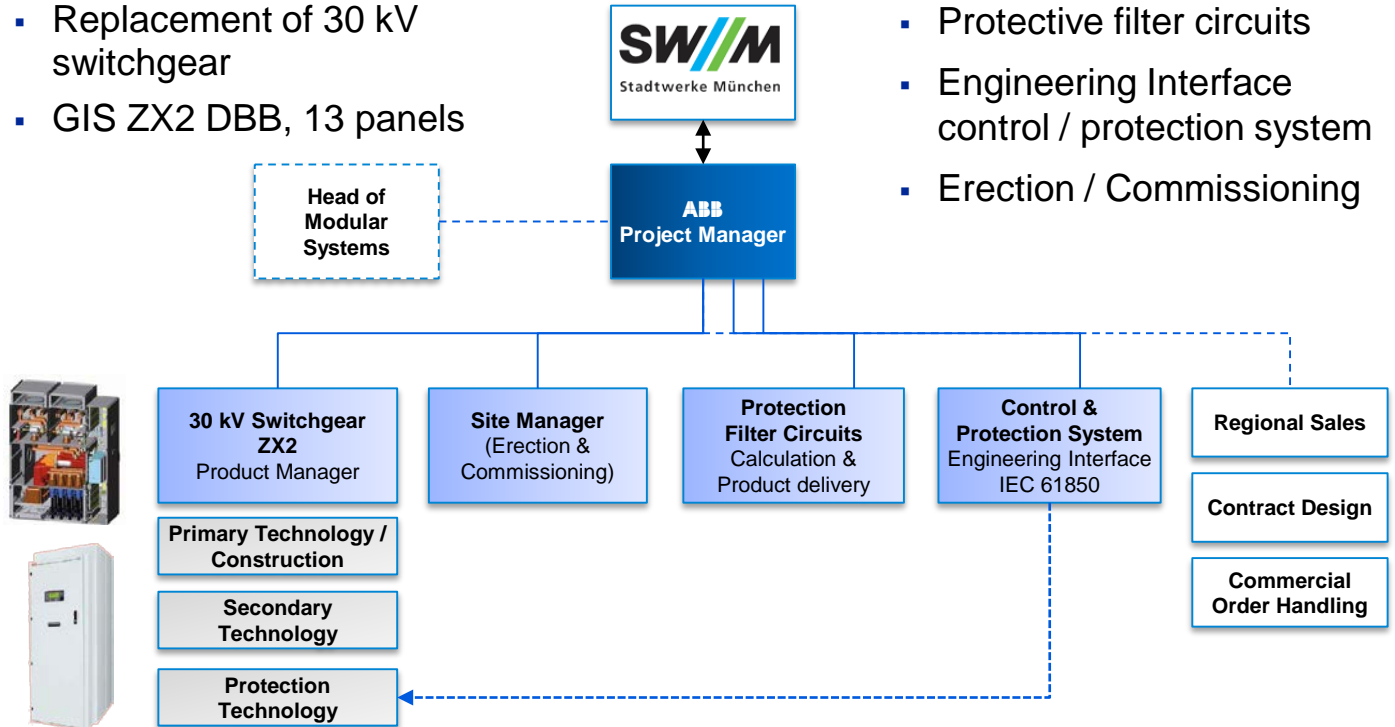


- ABB project manager
  - Coordination of all activities (whole project lifetime)
  - Organization of time schedules and meetings
  - Communication to sub deliverers
  - Managing interfaces to provided products
- Site manager (supervising all erection & commissioning activities)
- Small Engineering services, e.g.
  - Interfaces between control and protection system (IEC 61850)
  - Short-circuit calculations
  - Schematic diagrams for interconnections of products in scope and other interfaces
  - Cable listing and cable layout

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## Project reference: Stadtwerke München

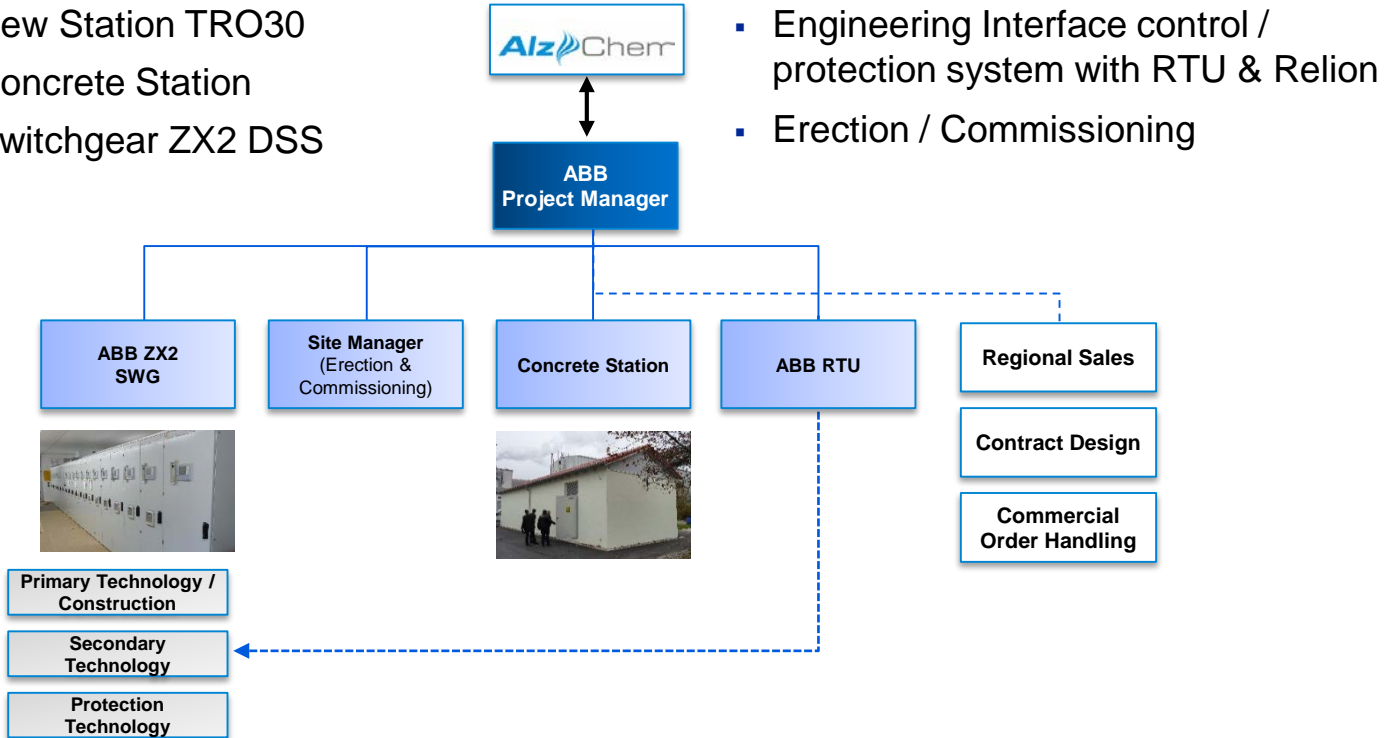
- Replacement of 30 kV switchgear
- GIS ZX2 DBB, 13 panels



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## Project reference: AlzChem, TRO30, TRO23

New Station TRO30  
Concrete Station  
Switchgear ZX2 DSS





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