

ABB ELECTRIFICATION SVERIGE

Vi skapar säker, smart och hållbar elektrifiering – för alla

EDCS för Voltimum -2020

ABB

Megatrenderna som formar elektrifieringens framtid

Världen blir mer digital, urbaniserad och elektrifierad

Digitalisering



Urbanisering



Elektrifiering



ABB Ability™ Electrical Distribution Control System

SMART CONNECTED PRODUCTS

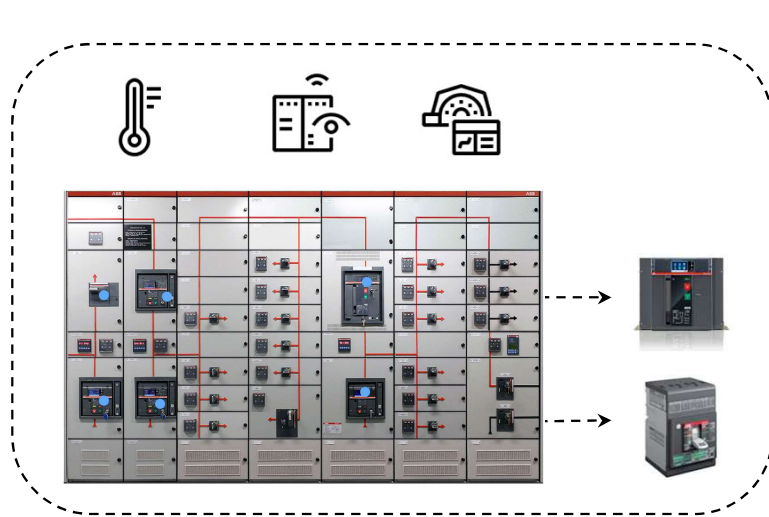
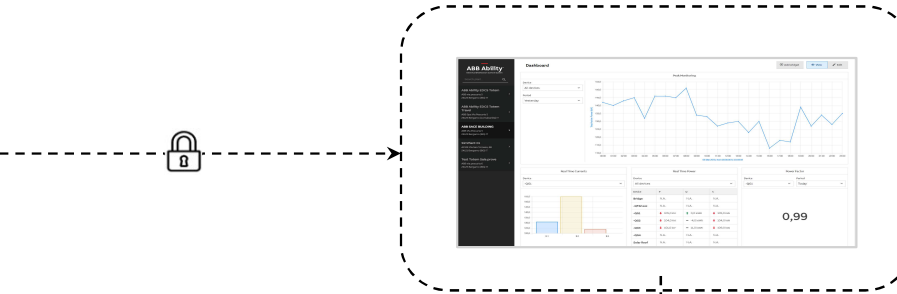


ABB ABILITY™ PLATFORM



DIGITALA ERBJUDANDEN

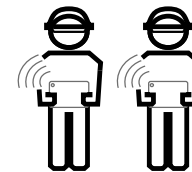


ABB Ability™ Electrical Distribution Control System

Architecture

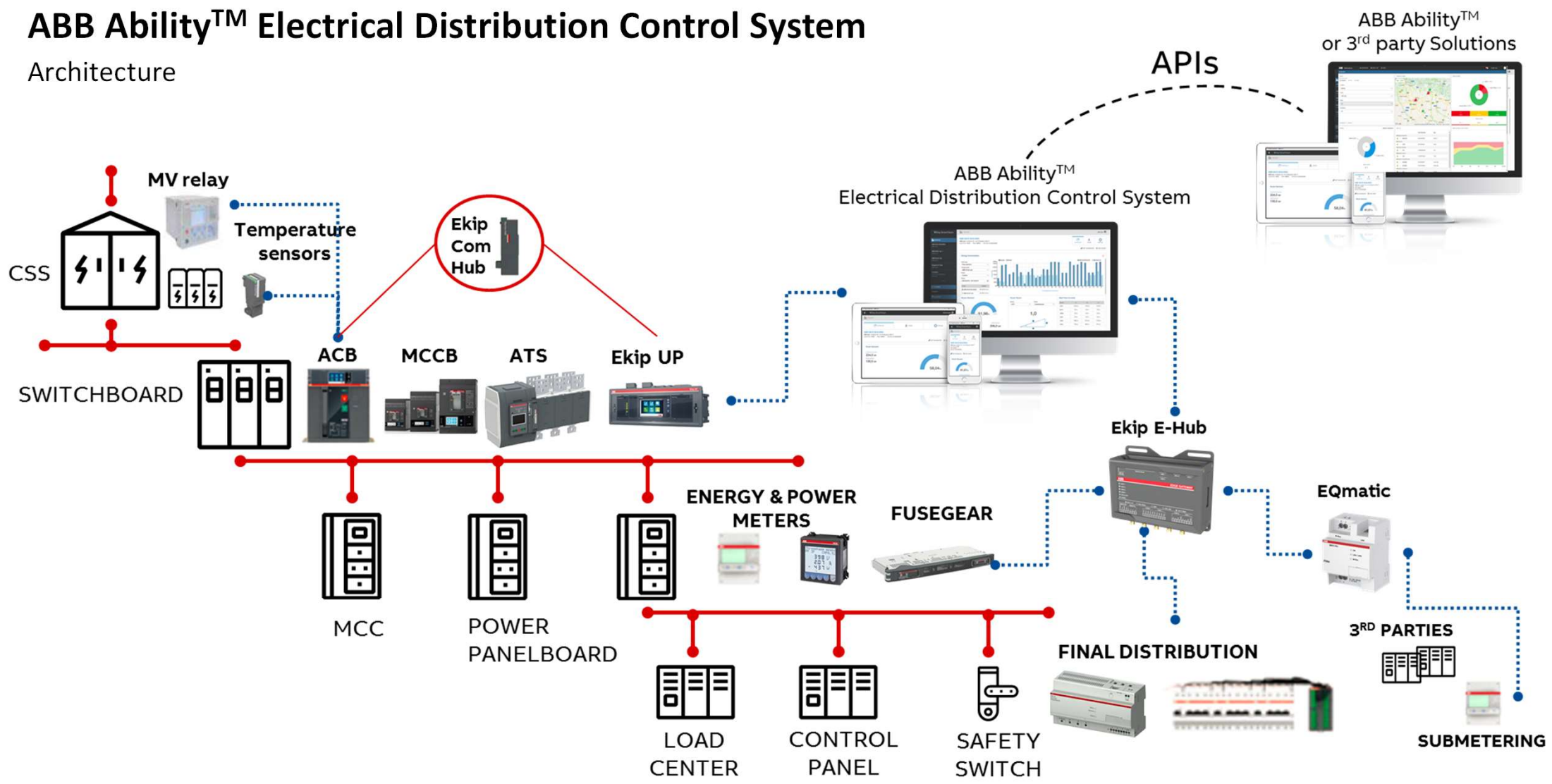
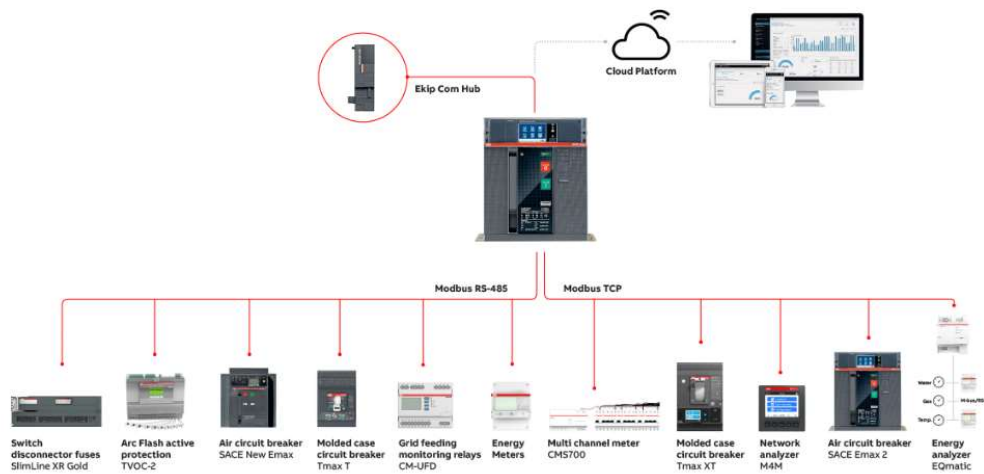


ABB Ability™ Electrical Distribution Control System

Energy Management



Monitoring and Audit



① Datainsamling

- Start collecting data of energy from sources to loads
- Create an accurate baseline in terms of consumed energy and electrical system.
- Visualize the load and process baseline consumption



Baseline



② Analys

A generated report will identify potential savings on:

- Energy Inefficiencies
- Penalties
- Operating costs
- Constraints



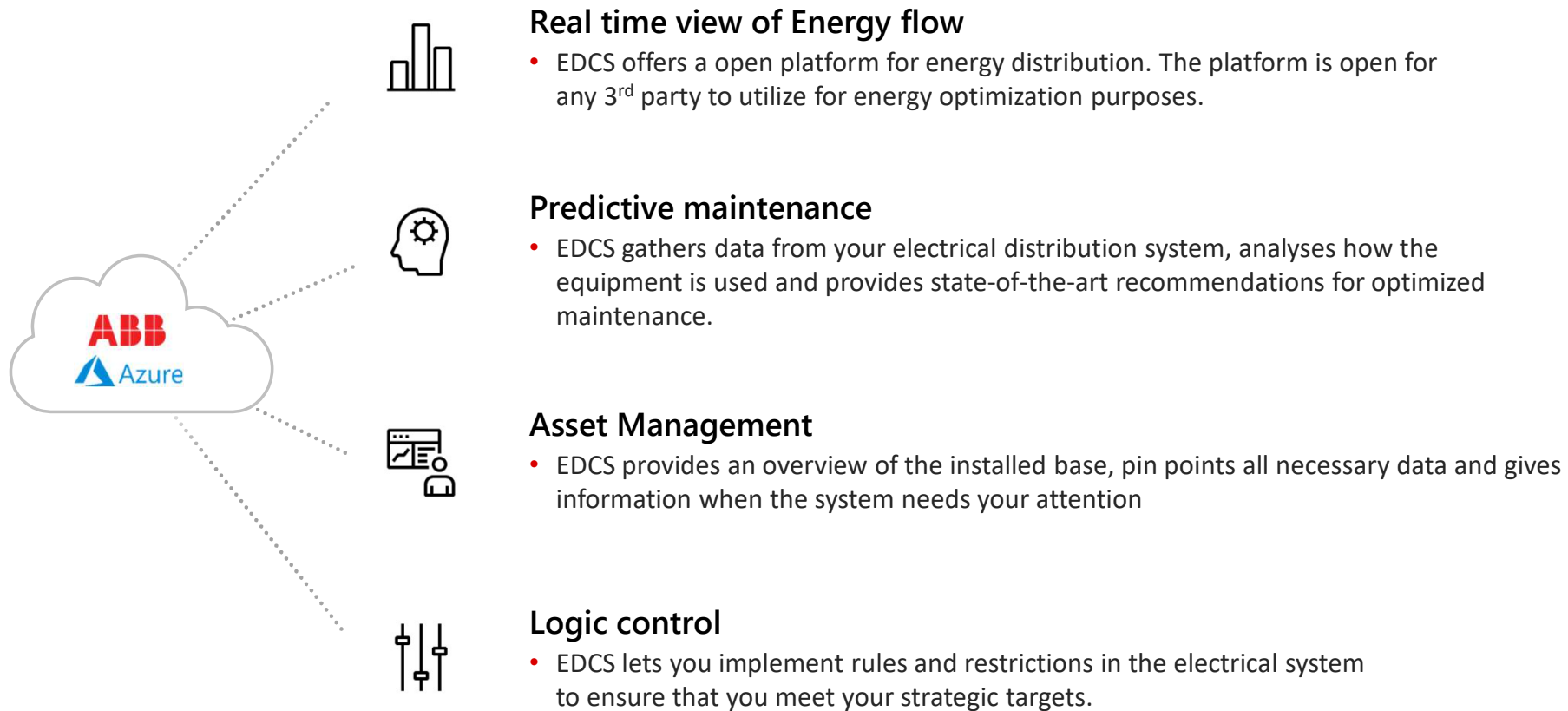
③ Sätt mål

- Identify reference target and expected behaviors
- Estimate current CO2 emissions
- Provide Energy Consumptions targets



Target Set

ABB solutions ensure efficient energy management



Principskiss för Smart Power



Energy Management Commercial Building



Plant

Burji Kalifa, UAE

66 LV switchgears, 400+ Emax

EMAAR



Customer needs

Reduce routine time based maintenance costs and move towards predictive maintenance.



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Digital offering

Plug'n'play upgrade of installed Emax towards ABB Ability™ EDCS to enabled predictive analytics, with Ekip UP devices and Emax+PR122.

“

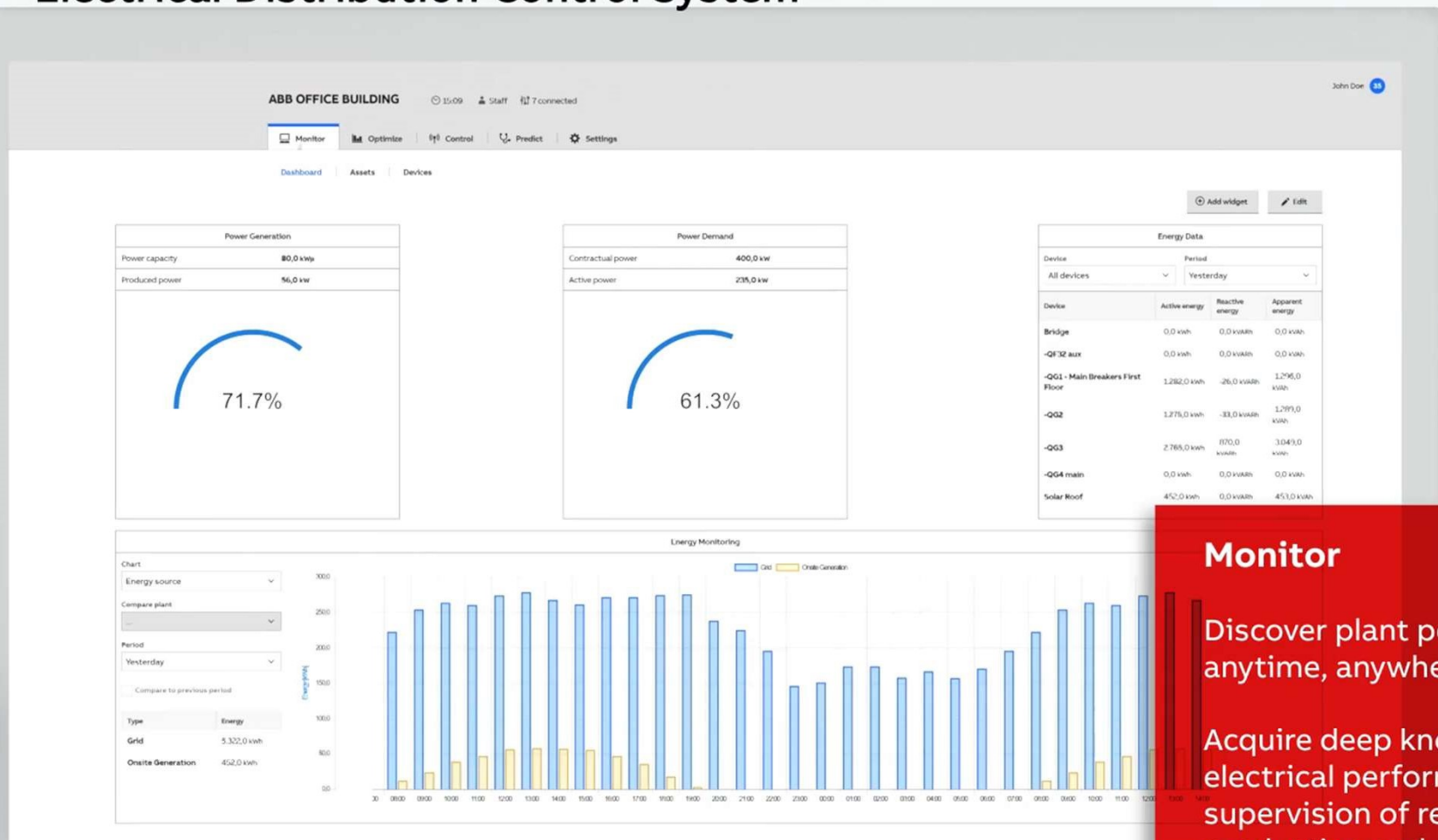
The ABB system provides managers and service teams with real time data on energy, power, temperature, current, voltage, temperature, harmonic, and power quality plus backup safety protections.”

”

- ✓ Ekip UP can digitalize any LV breaker with metering, control and protection, and connectivity to ABB Ability™ EDCS.
- ✓ ABB Ability™ EDCS offers several analytics, also about power forecast.
- ✓ ROI < 3 years



ABB Ability™ Electrical Distribution Control System



Monitor

Discover plant performance anytime, anywhere

Acquire deep knowledge of electrical performance through supervision of real-time power production and demand, peak trends, power factor and power quality information

ABB