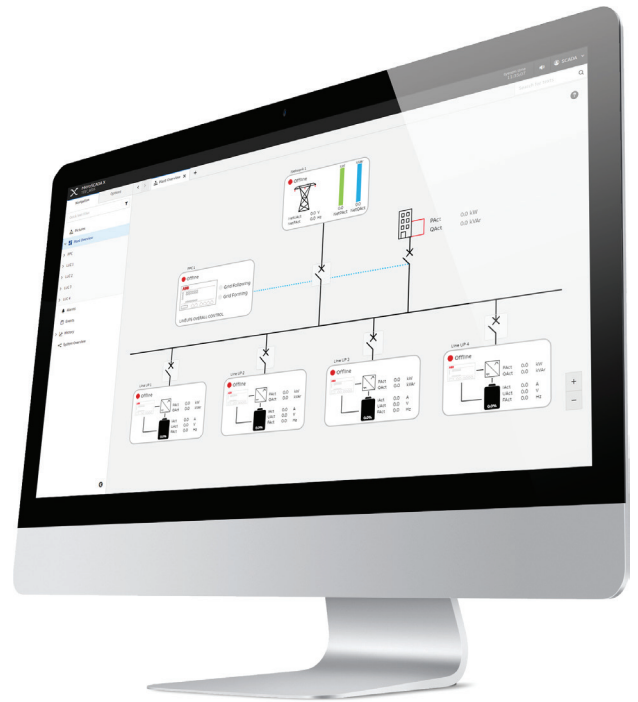


GRID EDGE SOLUTIONS

e-mesh SCADA

Energy Management and Insight

Unlocking potential across traditional and renewable energy assets to reduce environmental footprint and boosting profitability



Why energy management?



Climate and Environment Sustainability

- Maximized efficiency of traditional and distributed energy asset
- Protects the environment by improving resource efficiency
- Integration of multiple energy resources
- Minimize renewable curtailment
- Maximizes renewables utilization to reduce carbon footprint



Control and SCADA Solution for DERs

- Advanced power system functions, like seamless grid integration and grid code compliance
- Strong and resilient cybersecurity features
- Ensures power to critical loads during outages
- Standard interfaces between Control, SCADA and EMS solution



Energy Costs and Profitability

- Maximize value of each asset to provide quick return on investments
- Supports agile migrations as well as functional and software extensions to safeguard the investments
- Maximum availability of all connected energy assets
- Reduces cost of energy and operation by optimizing distributed energy resources

Element		Details	
Connectivity	e-mesh SCADA > e-mesh Control	IEC 61870-104 (master)	
	e-mesh SCADA > e-mesh EMS	Modbus TCP/IP (master)	
	e-mesh SCADA > e-mesh Monitor	Modbus TCP/IP (slave)	
	3 rd party / customers' applications	Modbus / IEC 61870-104 / DNP3 / IEC61850	
Users	Users and role Configuration	default user roles are provided. e-mesh SCADA, e-mesh Control(Web Interface and HMI) offer the possibility to define specific roles based on customer needs also using CAM – Central User Accounts Management	
SW & HW Minimum Requirements	Hardware	e-mesh SCADA Various depending on system configuration, refer to MicroSCADA Documentation	
	Software and OS	e-mesh SCADA	OS Various depending on system configuration, refer to MicroSCADA Documentation Web browser
		e-mesh DataStudio	OS Windows Server standard LTSB 2016 (64 Bit) / Windows Server standard LTSC 2019 (64 Bit) Web browser Mozilla Firefox (86.0.1) / Google Chrome (89.0.4389.90)/ Microsoft Edge (89.0.774.50) or Later
		MicroSCADA	MSX10.1 and Historian 1.3 or later