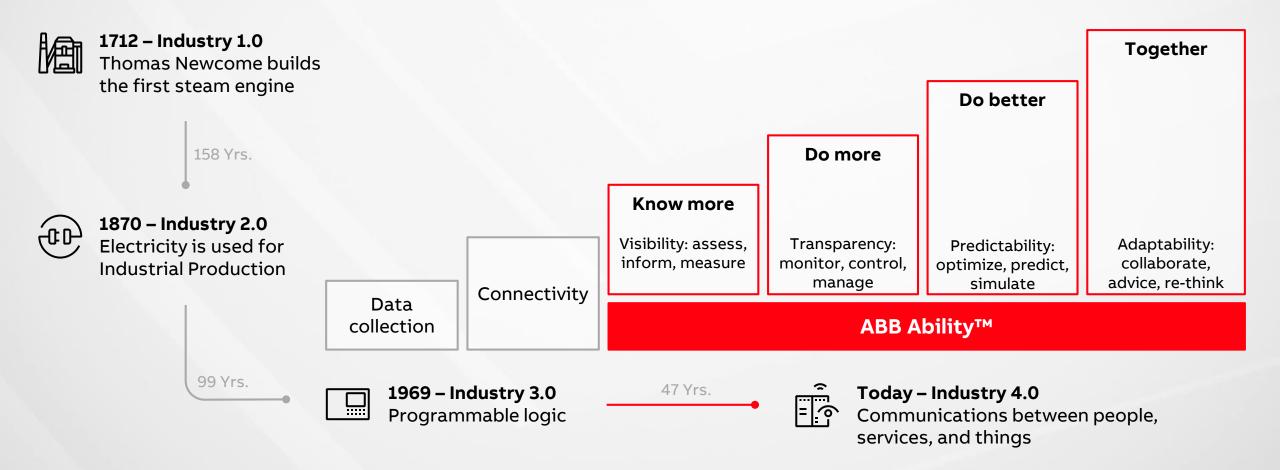


The future of Chemical, Oil & Gas

ABB Ability[™] building tomorrow's operations



ABB Ability™ solutions for Industry 4.0



Chemical, Oil & Gas operations

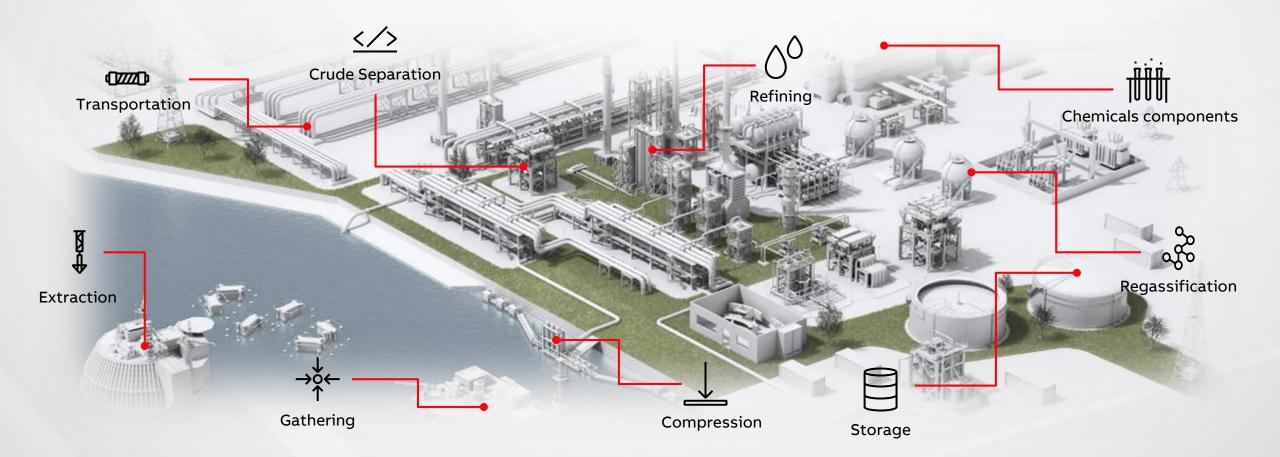


ABB Ability™ values for Chemical, Oil & Gas electrification

Chemical, Oil & Gas operations of tomorrow



Safety

People protection

MV and LV certified switchgears against internal electrical arc fault.

Active people and equipment protection

Fast acting and coordinated arc protection systems applicable on and MV and LV systems, and on new and existing switchgear, to increase safety and minimize downtime.

Digital asset

Personnel not exposed to high-voltage with sensor technology during testing Self-monitored digital communication bus and devices



Asset reliability

Condition monitoring

Sensors to detect possible asset aging and failure causes

Temperature monitoring of key components

Predictive maintenance

Site and multi-site asset health analysis to predict and notify potential faults, minimizing maintenance, while increasing safety and asset lifetime

Cyber asset management

Electronic devices inventory, configurations traceability, security firmware updates notification, plant data and documentation backup



Process continuity

Power availability

Load-shedding and peak-shaving to keep up and running critical loads Automatic transfer system ensuring power supply Power management for critical processes

Power quality and stability

Integrated capacitor banks for power factor correction.

Modular and combined Uninterruptible Power Supply solution Energy Storage modules

Troubleshooting

Events analysis providing possible causes and suggesting remedial actions, to minimize outage time



Easy to deploy

Digital switchgear and eHouse

MV/LV systems configurable and upgradable during lifetime reducing spare parts Containerized pre-tested MV/LV systems to reduce on site time and risk ensuring rapid commissioning

All-in-one protection

Modular hardware and software solution to protect the electrical network, and adapt easily Easy integration of renewables with automaticsynchronization function

Smart substation protection and control

Centralized substation protection and control, ready to follow the plant evolution, with extensive application coverage Fully modular and upgradable software



ABB Ability™ global and local support



10 Digital solution centers



40 Digital service centers



ABB Ability™ electrification offering

