

Andreas Brandt, September 24-26, 2014 – Dalmine, Italy

ABB OEM Days 2014 Getting ready for a smarter power network

Getting ready for a smarter power network Why it matters



- Central importance of the environmental impact, the reliability and continuity of the services
- Customers behavior and role changed, changing the rules of the game in the marketplace
- Increasing need and application of intelligent devices to efficiently manage the network.



Getting ready for a smarter power network The pillars to base the right solution on

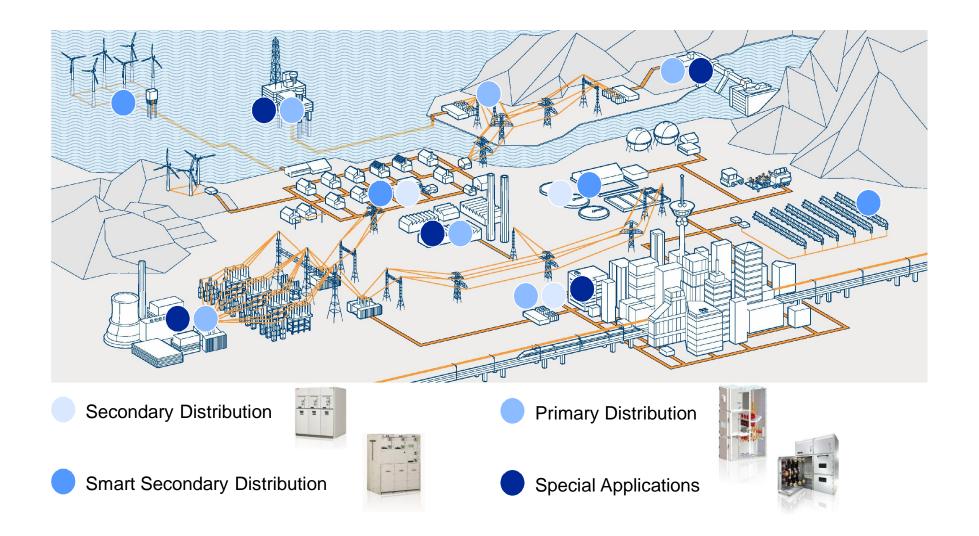


Why ABB?

- Cover the whole MV market requirements in terms of segments, international standard and application complexity
- Worldwide presence and global experience
- Willing to share innovation and know-how with our partners through dedicated programs
- Exhaustive offering portfolio from components to complete solutions

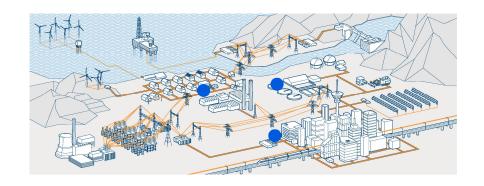


Getting ready for a smarter power network The pillars to base the right solution on



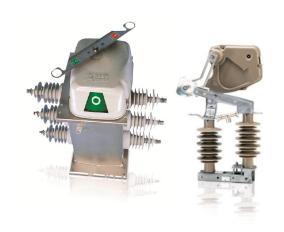


Secondary Distribution Fast, easy and effective















Secondary Distribution Fast, easy and effective

GSec

Three-position switch disconnector

- Secondary distribution network
- Building and construction and small industry
- Enables remote control





Secondary Distribution Fast, easy and effective

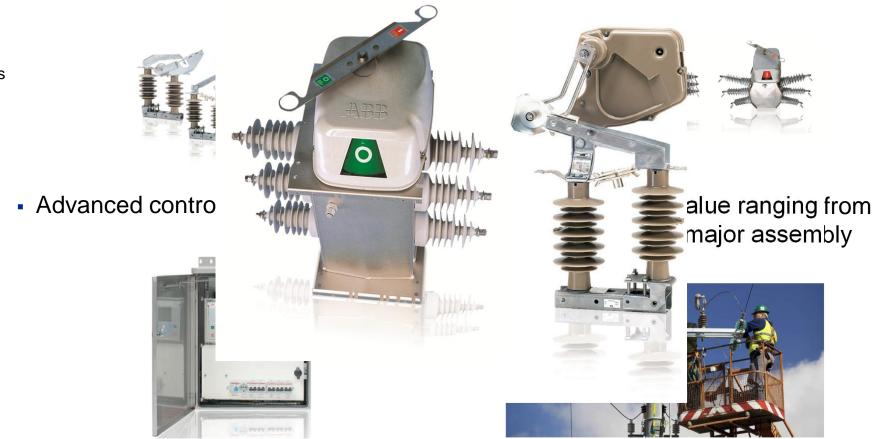
Switching Point

Air or SF6 Insulated Load Break Switches for outdoor applications

- Smart distribution network
- Enables fault Isolation

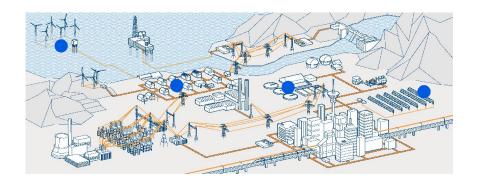
Modular design of NPS LBS fits many requirements and allow future upgrades

 Field-proven solution resilience to harsh environments





Smart Secondary Distribution Evolving to integration

















Smart Secondary Distribution Evolving to integration

HySec Integrated Circuit Breaker and Switch

Disconnector

- Smart distribution network
- Minimized footprint for CSS application
- Enables fault isolation and measurement

 Proven solution for a assembly process







Smart Secondary Distribution Evolving to integration

SafeRing SafePlus Family

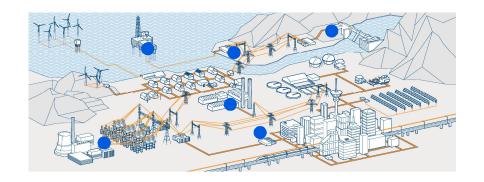
SF6 RMUs

- Compact secondary substations
- Wind power plants
- Infrastructure
- Light industries
- Buildings, hotels, shopping centers
- Mining applications

Perfectly meeting requirements of Flexible answer to smart grid CSS manufacturers and utiliti ..irements nt solution and easy to nd applications



Primary Distribution























Primary Distribution The bestseller

MV CBs

Primary Distribution Circuit Breakers

- Primary distribution network
- All Industrial and process applications

The most sold Circuit Breakers in the Fulfilling global needs world

 Based on embedded poles: compact, robust and easy to integrate Suitable to all ABB panels and







Primary Distribution Sensing to the future

Sensors

Post insulator voltage sensor

KEVCD KEVA family

VT – DIN type

Ring Core CT Family

Flexibility of solution

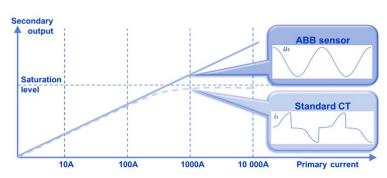








 Linearity: engineering reduction, fast and easy selection



 No custom configuration needed securing a shorter delivery time





Primary Distribution Proactive safety

UFES

Ultra-Fast Active

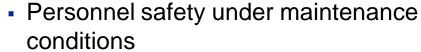
Internal Arc Protection

- All industrial process applications
- Power plants
- Areas with public access
- Marine applications

Compact & Easy to integrate

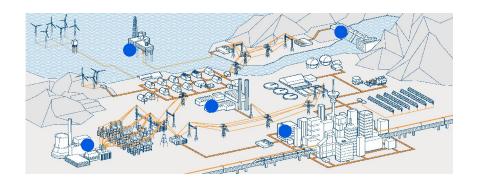


 Minimization of the pressure rise and gas exhaust













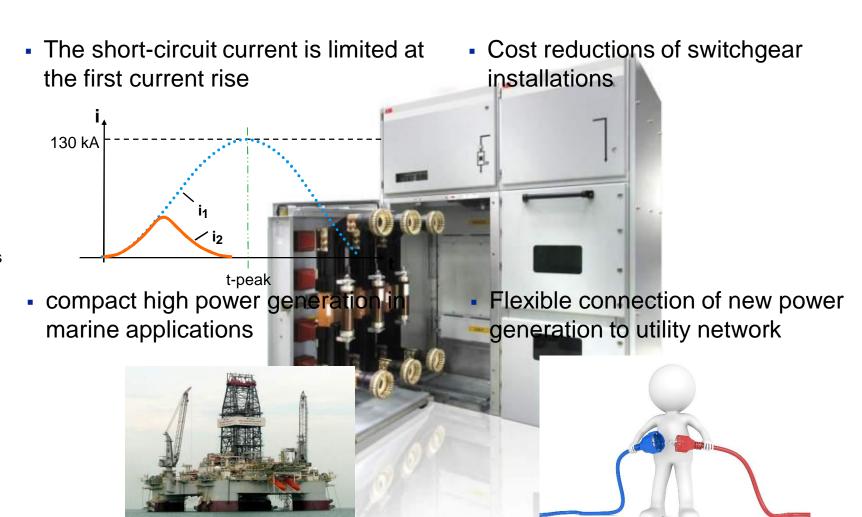




I_s-Limiter

The world's fastest limiting & switching device

- Heavy industries
- Power plants
- Utilities with IPP connection
- Marine applications
- Datacenters

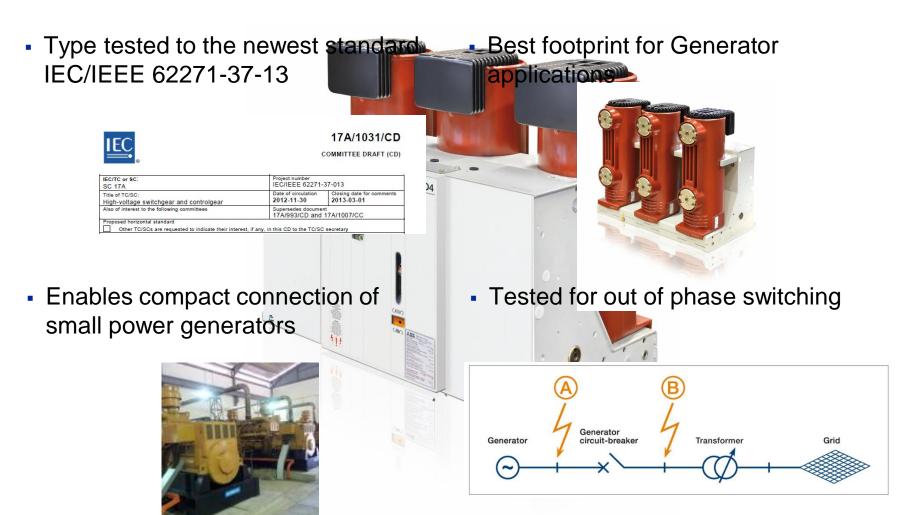




VD4G-50

Generator Circuit Breaker

- Small power plants
- Networks with emergency power generator
- Process industry with own power generation

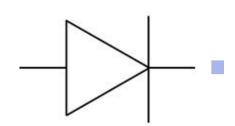




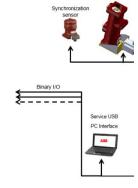
DS₁

Diode capacitor switch

 Compensation of reactive power Top level innovation

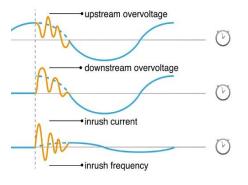


Integrated diagnos





itching







Getting ready for a smarter power network Why it matters



ABB is the right choice to get support with various products, solutions and related know-how to fulfill the needs of the new smart grid challenges of your customers.



