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
- Primary Distribution
- Smart Secondary Distribution
- Special Applications
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

Modular switch
Easy customization
Short delivery
All typical units
Secondary Distribution
Fast, easy and effective

Switching Point
Air or SF6 Insulated Load Break Switches for outdoor applications

- Modular design of NPS LBS fits many requirements and allow future upgrades
- Field-proven solution resilience to harsh environments
- Smart distribution network
- Enables fault isolation
- Advanced control
- High OEM added value ranging from pure installation to major assembly

Field-proven solution resilience to harsh environments
Smart distribution network
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Modular design of NPS LBS fits many requirements and allow future upgrades
High OEM added value ranging from pure installation to major assembly
Advanced control
Smart Secondary Distribution
Evolving to integration
Smart Secondary Distribution
Evolving to integration

HySec
Integrated Circuit Breaker and Switch Disconnector

- Proven solution for an assembly process
- Maximum integration and compactness
- Sensors for new generation protection devices
- Smart distribution network
- Minimized footprint for CSS application
- Enables fault isolation and measurement

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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 CSS manufacturers and utilities
- Flexible answer to smart grid requirements
- Space efficient solution and easy to handle in wind 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 world
- Filling global needs
- Based on embedded poles: compact, robust and easy to integrate
- Suitable to all ABB panels and enclosure solutions
Primary Distribution
Sensing to the future

Sensors
- Flexibility of solution

Post insulator voltage sensor
KEVCD KEVA family
VT – DIN type
Ring Core CT Family

- 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
- Personnel safety under maintenance conditions
- Increased process and system availability
Special Applications
The key to access new markets
Special Applications
The key to access new markets

**I_s-Limiter**

The world’s fastest limiting & switching device

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

- The short-circuit current is limited at the first current rise
- Cost reductions of switchgear installations
- compact high power generation in marine applications
- Flexible connection of new power generation to utility network

![Diagram](image_url)
Special Applications
The key to access new markets

VD4G-50 Generator Circuit Breaker

- Type tested to the newest standard IEC/IEEE 62271-37-13
- Best footprint for Generator applications
- Small power plants
- Networks with emergency power generator
- Process industry with own power generation

- Enables compact connection of small power generators
- Tested for out of phase switching
Special Applications
The key to access new markets

- Top level innovation
- Integrated diagnostics
- Compensation of reactive power
- Future proof
- Transient free switching

DS1
Diode capacitor switch
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.