

# Electrification & Automation Introduction to our Portfolio

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# From two, make one

An introduction to the combined portfolio of Siemens Electrification & Automation



## Merging of Distribution Systems and Digital Grid Business Units ...

Regular business partners within Siemens, now united for more effective, efficient teamwork

Since 01 January 2022



#### Smart power distribution from medium-voltage to low-voltage

**Medium-voltage Components, Systems & Solutions** 

**Low-voltage Systems** 



Automation, Protection & Communication for high- and medium-voltage Systems



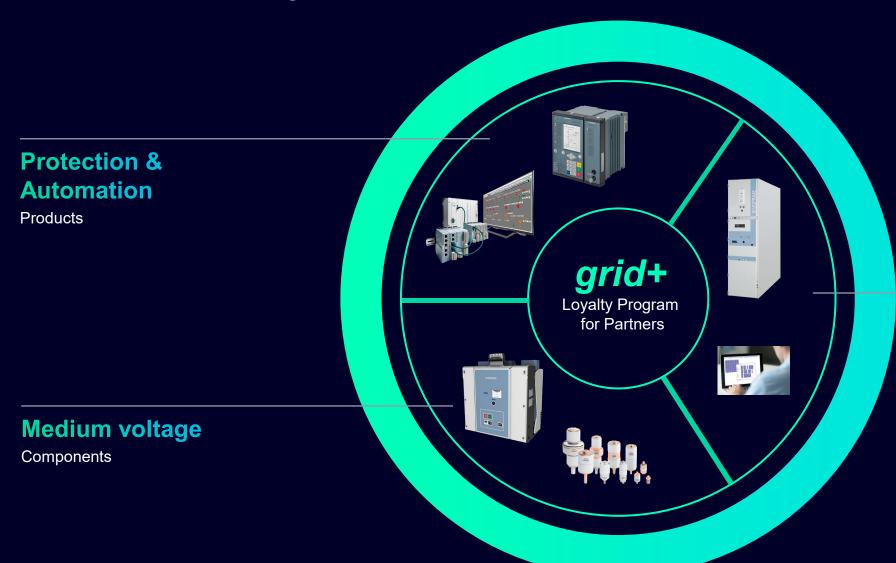




#### **Services**

#### Electrification & Automation Partner Offerings

- 3 elements come together -



**License models** 

**MV** Switchgears

## Protection - SIPROTEC and Reyrolle - Secure and efficient operation of primary grid assets













Trendsetting in protection technology - fast, secure and selective in all protection, control, monitoring and measuring tasks:

- Protection of people and assets
- High performance engineering tool
- High quality in hardware and software
- Extensive, standardized communication
- Seamless integration in engineering processes
- Flexible and scalable product portfolio
- Easy and safe operation

#### **Substation Automation - SICAM** for improved grid availability





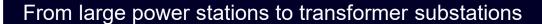












- Flexible, intelligent, and tailor-made
- SICAM substation automation systems, telecontrol and operation of energy systems

- Optimized management concepts
- Comprehensive plant and system overview
- Reduced outages and downtimes
- Programmable for further applications like Load Shedding, Generation Control, etc.

#### **Medium-voltage components**

#### Highly available and efficient power supply with vacuum technology

- In power stations and transformer substations
- In industrial applications
- In local grids

- In transformer and transfer stations
- on ships and trains



Vacuum circuit breakers SION for standard applications (AIS) for voltage levels up to 24 kV



Vacuum circuit breakers for special applications (generator, rail and high-current applications) for voltage levels up to 40,5 kV



Vacuum contactors and contactor-fuse combination for high-switching frequencies



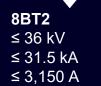
Vacuum interrupters for sustainable and reliable switching portfolio



#### An Example of Full Range of Siemens Medium Voltage Switchgear









**GM-SG** ≤ 15 kV ≤ 63 kA ≤ 4,000 A



SIQuench
Arc quenching
device
tr < 5 ms

#### Siemens MV Switchgear (incl. AIS, GIS, blue GIS)

A full presentation of our Medium Voltage switchgear portfolio will be offered during the afternoon session of our VAR Partner Day 2022.

Available for Siemens partners in a variety of collaboration models, *depending upon switchgear types*:

- Complete panels (primary and secondary) factory tested
- Value Added Reseller (complete primary from Siemens, secondary portion by Partner)
- Technology Partnerships (significant localization of Medium Voltage manufacturing processes)
- OEM Concept (Partner's own designs and type tests using Siemens core parts)



#### **Generator circuit breaker switchgear**

#### Reliable, sustainable and customized solutions for power plants







#### **Outdoor distribution equipment**

#### Maximum reliability and safety in distribution grids

#### **Outdoor Vacuum Circuit-Breakers**

#### **Outdoor reclosing devices**

### Outdoor disconnect switches













Live Tank circuitbreaker 40.5 kV / 31.5 kA / 2,500 A

Low weight and space saving OVCB for transformer substations and distribution grids

Dead Tank circuitbreaker 38 kV / 40 kA / 3.000 A

Arc-resistant OVCB for distribution grids also including fast-acting grounding capability

Smart Distribution Recloser (SDR) 38 kV / 16 kA / 800 A

The flexible all-in-one solution for overhead lines and transformer substations

Compact Modular Recloser (CMR) 27 kV / 12.5 kA / 630 A 38 kV / 6.3 kA / 630 A

The new family of single and multi-phase auto-reclosers for overhead lines.

Fusesaver ™ 27 kV / 6.3 kA / 200 A

The world's fastest circuitbreaker for overhead lines with multifunctionality:

- Fuse saving
- Reclosing
- Sectionalizing

27 kV– 400 A A portable, soft ganged switch for temporary isolation. Disconnect Switch 69kV / 2,000 A

station class, distribution class and group-operated disconnect switches

Safety and reliability for ease of maintenance

siemens.com/outdoorsystems

#### Siemens Power Distribution Portfolio

#### Primary and Secondary Products & Equipment

#### Regular Requirements (MV)

- Supply contracts for medium voltage components, vacuum circuit breakers, ...
- Certified MV switchgear partnership models
- Localization of scope based upon agreed partner scope

#### **Infrequent Needs (MV)**

- Opportunities to supply further types of Siemens medium voltage switchgear without need for new certification
- Either complete primary & secondary systems from Siemens or also available via VAR partner model

#### **Protection & Automation**

Proven program of VAR grid+ Partnerships continues

- Working with Integrators, Switchgear OEMs and EPCs.
- SIPROTEC, REYROLLE and SICAM product families

#### **Disclaimer**

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