
EcoStruxure™
Innovation At Every Level
AIR
Create more sustainable grids
with the next-gen RM AirSeT
SeT Series
RM AirSeT™ switchgear
Learn more
#InnovationIsInTheAir
Life Is On
Schneider Electric

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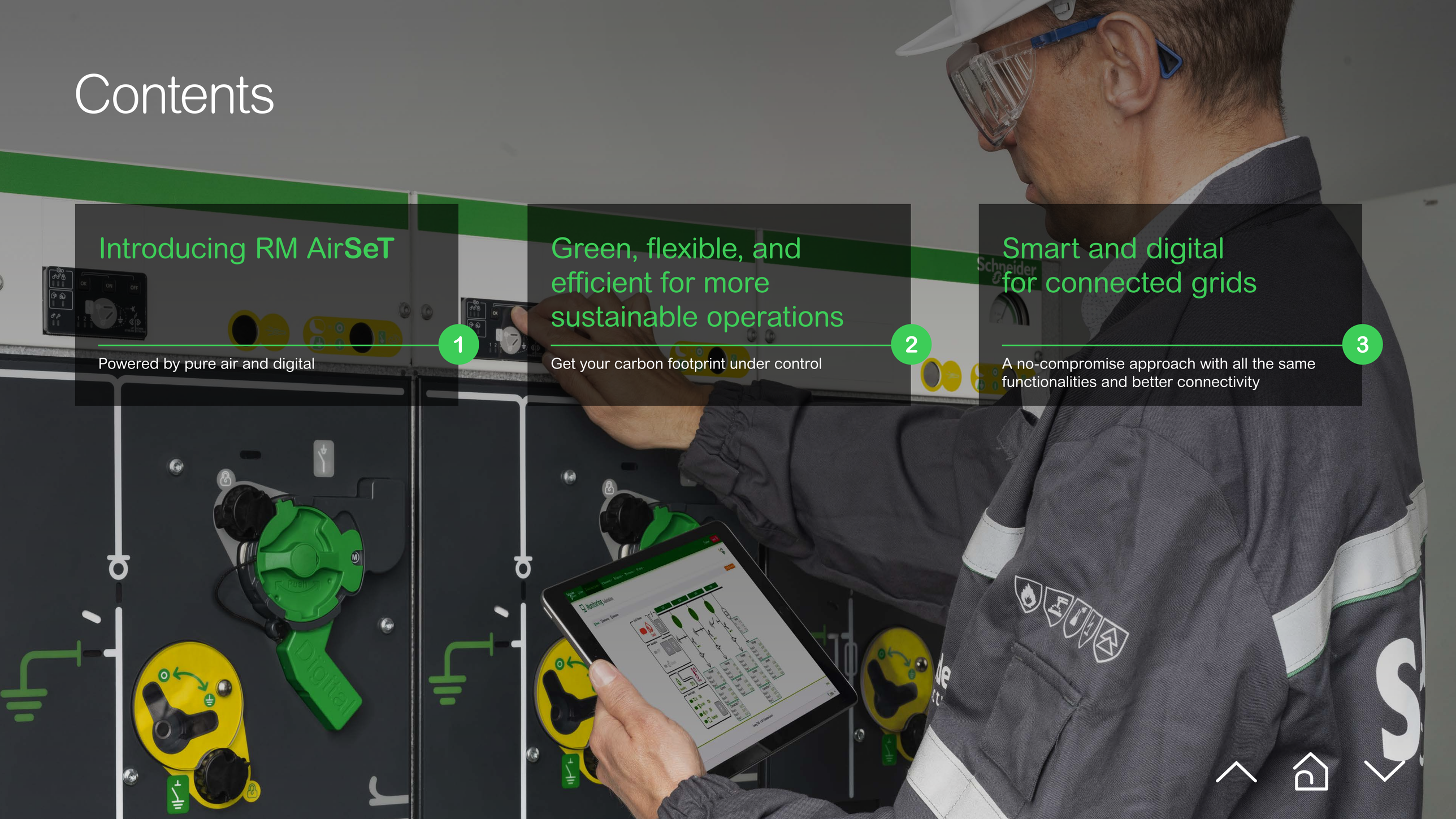


Introducing RM Air**SeT**

Innovation is in the air

It’s here. The SF_6-free, gas insulated switchgear (GIS), designed to help you meet your sustainability challenges without compromise on form or function.

A huge step forward for our planet, RM AirSeT is powered by pure air – eliminating the need for SF_6 (sulfur hexafluoride), a potent greenhouse gas. Air is safer and sustainable by nature, it is free from compliance risks related to future regulations.

To make the change possible, RM AirSeT's innovative design combines proven, clean, and reliable air and vacuum technologies.

Additionally, RM AirSeT achieves maximum flexibility, retaining all functional units of a traditional SF_6 switchgear with the option of combining them freely, based on individual need and preference.

Find out more about SF_6-free technology. Watch now.

A step forward for MV distribution

RM Air**SeT** is a breakthrough in SF_6-free gas-insulated switchgear technology, offering:

- Enhanced sustainability
- Extensive flexibility with multiple functional units
- Increased efficiency
- Greater safety

Green, flexible, and efficient for more sustainable operations

Achieve your sustainability goals

Move over SF_6, pure air is the new gas.

RM AirSeT enables you to achieve new levels of sustainability by taking the next step toward your decarbonized grid of the future. Air has no global warming potential (GWP) and no sole-source supply. Pure air technology is reliable and future-ready as it's free from regulatory considerations.

To enable the change from SF_6, Schneider Electric has combined air for insulation and Shunt Vacuum Interruption (SVI)™ technology to switch the current, while producing no alternative gases or toxic byproducts.

And with the powerful CompoDrive operation mechanism, RM AirSeT gets increased mechanical performance, allowing up to 10,000 operations for grids to handle more DER in the distribution network.

See page 10 for more information on CompoDrive.

Zero

recycling required for air at end-of-life

Lower

total cost of ownership

Advanced flexibility tailored to customer needs

RM AirSeT offers a wide portfolio of functions* that you can mix and match how you like, depending on your needs. This free combination of functions enables simpler, faster installation and is more cost efficient than adding several single extensible functions.

What's more, RM AirSeT can easily be extended with more functions simply by adding modules as required, and each functional unit has the same dimensions – preserving the compactness of the device.

Visit RM AirSeT page

* Available functions

- Switch
- Switch-fuse
- Direct incomer-feeder
- Circuit breaker

* Please contact us for availability

Move to RM AirSeT with ease

Upgrading to a new, pure air-powered switchgear is a breeze with RM AirSeT.

The device retains the familiar three-position switch for closed, opened, and earthed – the first SF_6-free switchgear to do so. This means unchanged operation, which allows for simple adoption, grid modernization, and helps reduce upgrade risks.

RM AirSeT also boasts a compact physical footprint and offers a single, consistent design for 12kV and 24kV – another breakthrough for SF_6-free technology.

Discover RM AirSeT in this video

Made of efficient components

RM AirSeT features the next-generation CompoDrive mechanism. The CompoDrive helps improve your grid's environmental performance, allowing up to 10,000 operations, accommodating more switching linked to intermittent generation from distributed energy resources (DERs).

As well as saving operation time and costs, the mechanism is composed of parts engineered from high-tech composite materials that improve resistance to harsh environments. This highly robust design extends the lifetime of RM AirSeT to an industry-leading 40 years.

Find out more about the CompoDrive. Watch the video.

Built for enhanced durability

RM AirSeT is built tough. Functions are contained within a water-and-dust-resistant IP67 stainless steel enclosure, protecting live parts from ambient conditions.

The tank is sealed for life, enabling service continuity in all operating conditions, including those affected by harsh environments, dust, pollution, or biological factors.

Increased operator and public safety

Powered by air and digital, RM AirSeT increases safety in two ways – operationally and environmentally.

Operational:

RM AirSeT is designed with various aspects of operational safety in mind. Designed to withstand internal arc faults in accordance with IEC 62271-200, it enhances the safety of on-site personnel. An EcoStruxure-ready device, it features advanced network management and monitoring. Condition monitoring options help operators take preventive action before a fault occurs. RM AirSeT also boasts nearby control, letting staff do their job without physically interacting with the equipment.

Environmental:

As pure air is used for insulation and vacuum interrupters for switching, RM AirSeT generates no toxic byproducts from current breaking – which also enhances the safety of the environment and users.

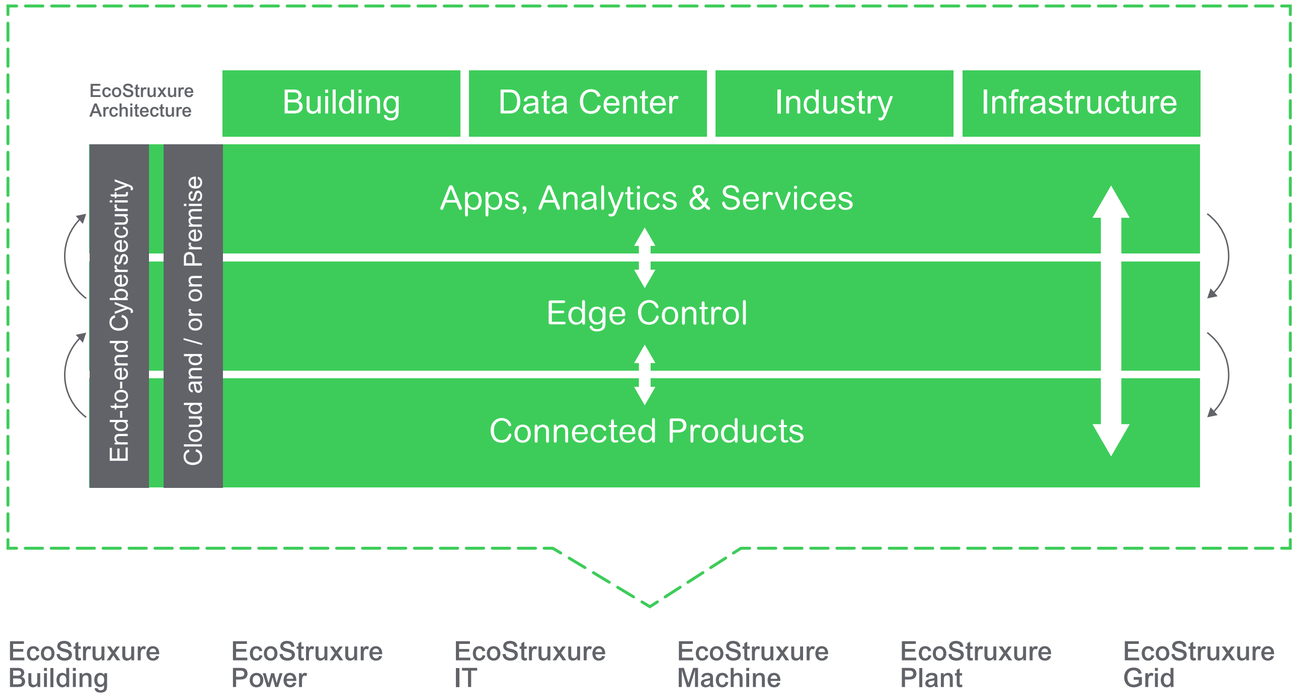
Smart and digital for better connected grids

Discover the added value of EcoStruxure

RM AirSeT is a Connected Product of EcoStruxure™ Grid – part of Schneider Electric's open, interoperable IoT-enabled system architecture and platform.

EcoStruxure delivers enhanced value around safety, reliability, efficiency, sustainability, and connectivity for our customers. It leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver innovation at every level, bringing efficient asset management, 24/7 connectivity, and increased safety.

This unified approach provides more value than a traditional network of isolated devices and is covered by end-to-end cybersecurity.



Monitor RM AirSeT's health for greater efficiency and longer life

RM AirSeT features the high efficiency you have come to expect from a Schneider Electric switchgear.

The health status of the device can be monitored via wireless sensor-based technology and digital tools. That's why condition-based maintenance takes place at the right time, meaning fewer downtime risks and costs.

Condition monitoring tools for asset management enable:

- Thermal monitoring
- Environmental monitoring

Discover extensive connectivity features

RM AirSeT features powerful digital capabilities extending beyond local operation and maintenance.

[Download RM AirSeT catalog]

Network management
TVDA factory tested Easergy T300, all-in-one RTU+FPI+PSU.

QR codes
Enable quick connection to RM AirSeT and access to the digital logbook, manuals, and support – saving operational time and effort.

Thermal & environmental monitoring
Faulty connection detection via TH110 wireless thermal sensors. Fast-aging prevention via CL110 wireless condensation sensors. Thermal sensors help detect temperature anomalies, prompting diagnosis of potential faults – reducing downtime and fire risks.

Current sensors
On cable bushings (up to cl 0.5s).

Operation
Through smart-ready detectors VPIS or VDS (VDIS).

Protection relays
VIP4x self-powered/P1 auxiliary-powered, allowing auto-reclosing, logic selectively directional protection.

Asset management
Through smart-ready voltage sensors, LPVT.

Current sensors
Split type on cables.

Ready for a smarter grid

RM AirSeT is as smart as it is environmentally friendly, with the Easergy T300 remote terminal unit (RTU) integration providing an easy way to digitize your substation to become a future-ready smart grid.

Easergy T300 is:

- **Efficient:** An integrated all-in-one solution for MV control and monitoring, designed to withstand harsh environments, and easy to connect.
- **Powerful:** Able to manage up to 24 RM AirSeT functions, three transformers, and numerous relays and sensors. It enables condition-based maintenance and is scalable and future-ready.
- **Simple and flexible:** The device is compact, and features plug-and-play for easy installation.
- **More secure:** Helps secure operations and features built-in cybersecurity.

Technical specifications

	12kV	24kV
Generalities	GIS – 630 A- 20 kA 3 s or 1 s – IEC 62271-200	
Insulation and disconnection	**Pure air** preserved from ambient conditions	
Tightness	**IP67 stainless steel** – sealed pressure system – **40-year life expectancy**	
Filling pressure	0.4 bar rel.	1.5 bar rel.
Breaking	Vacuum interrupters inside the tank (switch or CB)	
Internal arc	**Type tested: Class A – accessibility: FLR**	
Installation and operation	**Similar size – same procedures:** Three-position switch disconnector/switch fuse/circuit breaker	
Digital architectures	Tested validated documented architectures: **direct connectivity to DMS or kits for later upgrade**	

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To find out more about
the **RM AirSeT** switchgear, visit:

se.com/rmairset

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