EcoStruxure™
Innovation At Every Level

AIR

Discover the future of energy distribution
with the SF_6-free GM AirSeT



SeT **Series**
GM Air**SeT**™ switchgear

se.com/gmairset

#InnovationIsInTheAir

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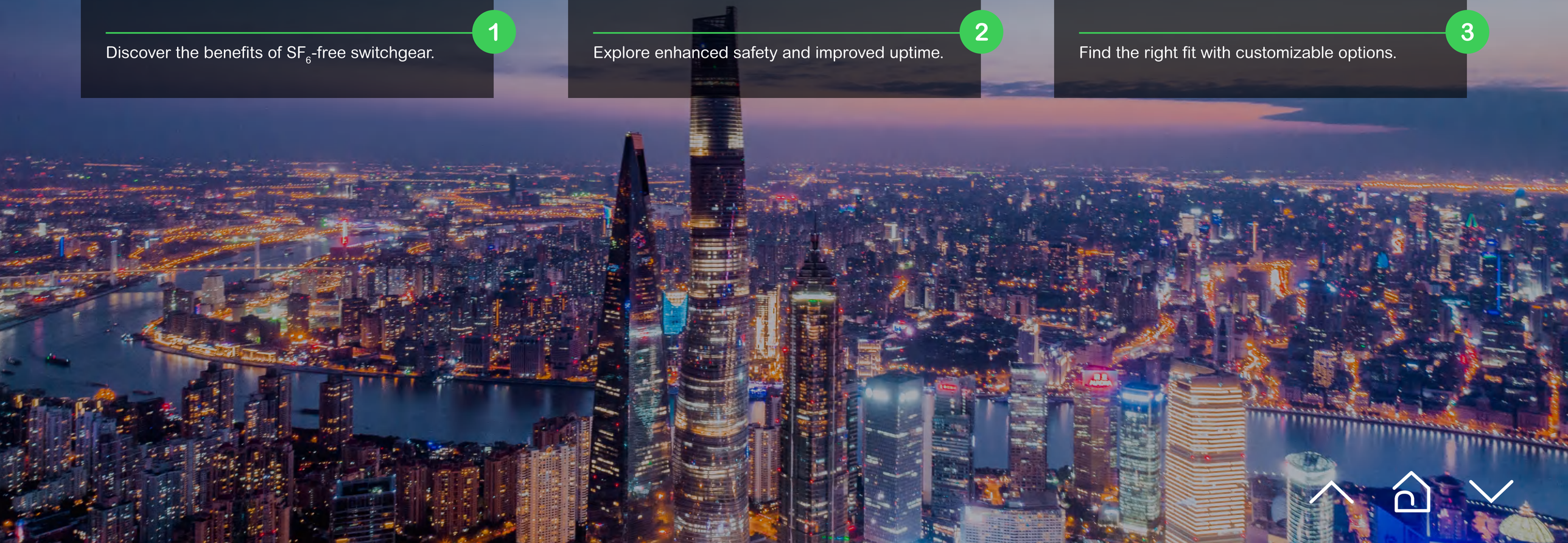
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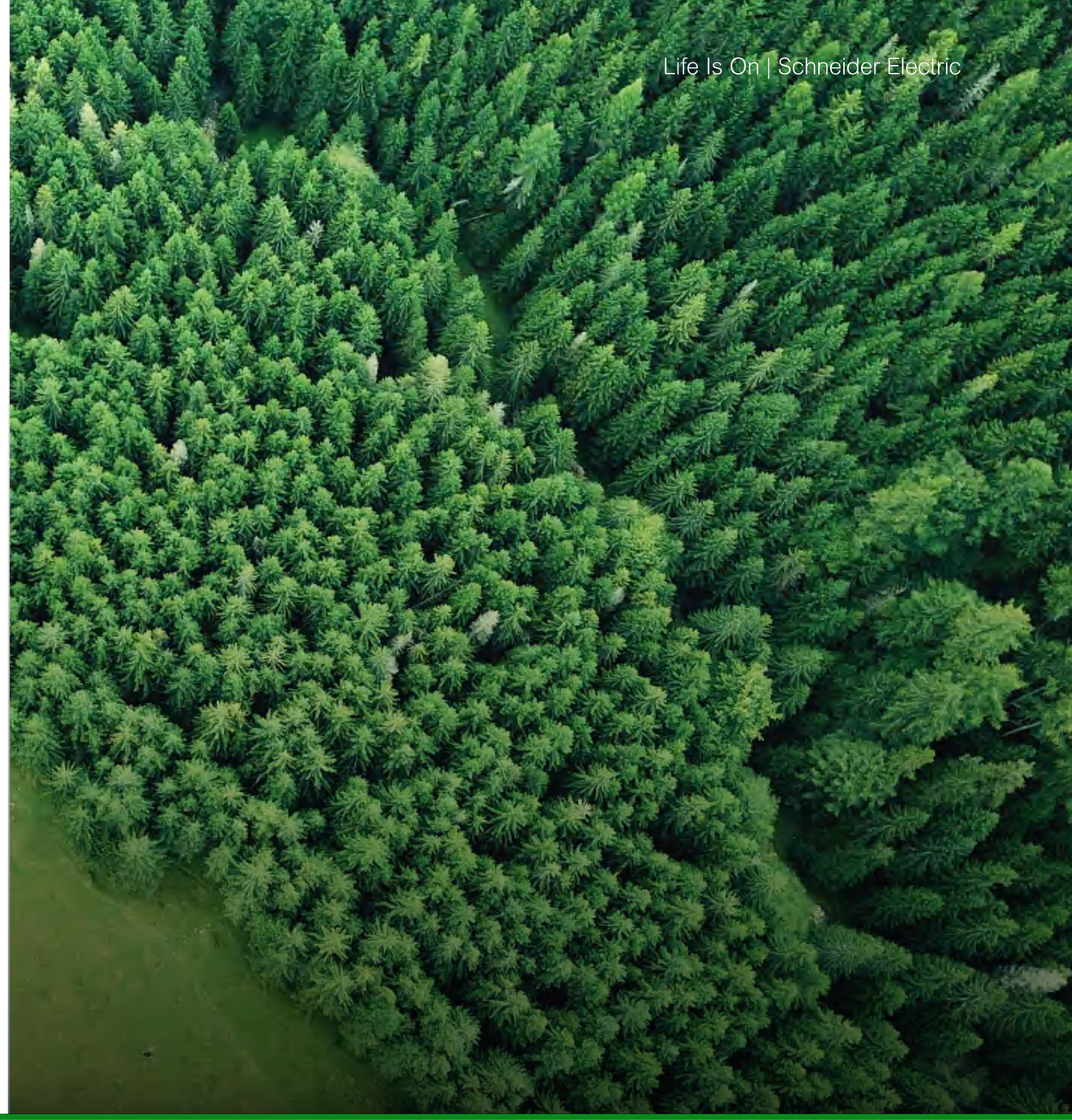
Sustainability, Powered by Pure Air

The power of pure air

GM AirSeT is a new generation of MV switchgear by Schneider Electric — innovative and sustainable. Using pure air and vacuum technology to eliminate the use of SF_6, GM AirSeT helps you meet your emissions goals without compromising the performance provided by older technology.

SF_6 (sulfur hexafluoride) has been a staple in energy distribution for decades due to its excellent dielectric and thermal properties. However, it is also a potent greenhouse gas and faces increasing regulatory pressure.

Pure air is the ultimate answer to growing sustainability needs. Not only is air carbon neutral, but it also ensures your equipment will always follow any future environmental regulations. By harnessing the power of pure air, this technology is not just a more sustainable solution, but also offers a lifetime of up to 40 years on average. Eliminating SF_6 also means there's no need for gas capturing or recycling at end of life.



A smooth transition to reduce emissions

GM AirSeT helps make the move to SF_6-free switchgear as fluid as possible. At every step, our innovative technology makes installation and operation more efficient.

Every facility's needs are different, so your GM AirSeT switchgear is custom-configured and optimized for your specific circumstances. Whether you have limited floorspace, prefer minimal hassle during installation, or need reliability in harsh environments, its innovative design helps make upgrading easy.

Compact design

GM AirSeT's best-in-class footprint provides significant space savings.

Time-efficient configuration

Fully tested at our factory, GM AirSeT arrives ready to install.



Smoother installation and commissioning

Simplified installation
Because we deliver GM AirSeT prefilled and tested, there's no on-premise gas work, gasket handling, pressure filling, or pollution control during installation and commissioning.

Easy commissioning
To ease commissioning, voltage transformers can be delivered fully factory fitted and be disconnected to avoid disassembly.

Compact and modular
Designed to fit your unique switchgear room and installation needs, GM AirSeT's modular design enables flexibility when adding cubicles to a lineup or exchanging cubicles out of an installed switchboard. Its plug-and-play LV cabinet design makes it easier to remove or replace.

Future-ready
Because business needs are always changing, we designed GM AirSeT to be easily upgradable when you're ready to expand.



Reliable and Efficient To Bolster Operations



Reliable operations, 24/7

GM AirSeT is durable — made for operation in harsh environments, broad operating temperatures, and an extensive humidity range. Its robust design is backed by 40 years of Schneider Electric GIS switchgear experience in the field and is tested against relevant IEC standards. That reliability helps you improve uptime and efficiency for your entire facility.

With added 24/7 connectivity, GM AirSeT gives you better peace of mind. Through connected sensors, AirSeT alerts you to any abnormalities within the switchgear itself or its environment, helping to identify the risk of an unexpected shutdowns and enabling condition-based maintenance.

Comprehensive efficiency

By providing more power in a compact footprint, GM AirSeT's space-efficient design reduces area utilization and its associated costs.

GM AirSeT is compatible with low-power instrument transformers, reducing continuous power losses and carbon emissions over the course of its lifetime.

Digital monitoring gives better visibility into your asset health and allows for condition-based actions, paving the way for preventive and predictive maintenance. This approach helps you avoid downtime and improves the lifespan of your MV equipment while eliminating the need for frequent maintenance visits and related operational and environmental costs.

Enhanced operational safety

Any modern switchgear has a people-first approach at the heart of its design. GM AirSeT takes that mentality and innovates even further to help reduce risk for your staff.

GM AirSeT's intuitive operator interfaces make operation and servicing simpler for technicians. The mechanical interlocking system helps prevent operator errors, bringing an additional level of safety to your facility.

With remote and nearby monitoring, personnel can operate GM AirSeT at a farther distance during maintenance follow-ups. Arc-fault withstanding and the option of digital arc-fault detection further enhance safety by limiting damage to your equipment and facility in the case of an unlikely internal arc event.

GM AirSeT remains operational even if your facility loses auxiliary voltage. Operators can still perform all essential switchgear functions manually with added safety from mechanical interlocks and an intuitive operator interfaces guide.





Adaptable for Intelligent Facilities

Innovative electrical distribution for smarter facilities

Smart pressure monitoring*
Using pressure sensors and thermal measurements, GM AirSeT calculates and displays temperature-compensated pressure, pressure indication, as well as any warnings, alarm thresholds, or protection relay signals on a color touch panel.

Intuitive operational interface
Mechanical operation and indication are combined in one user interface that mimics a single-line diagram. To avoid errors in operation, GM AirSeT's interface guides operators through a comprehensive mechanical interlocking system.

Switchboard HMI*
Remotely access information about your equipment and be aware of abnormal activity as soon as it happens with dashboards and alerts.

Instant access to digital documents
Through your switchgear's unique QR code, you get access to EcoStruxure™ Facility Expert where you can store your:

- Logbook
- User manuals
- Single-line diagrams
- Design drawings
- Layouts and schematics
- Factory and site acceptance tests

Continuous environmental monitoring*
Sensors help optimize predictive maintenance by alerting you to potential deterioration caused by moisture and pollution.

*Check for availability in your region.



Scalable to fit your needs

GM AirSeT

Provide local pressure monitoring with remote indication and fast access to documentation through the Digital Logbook, accessed via QR code.

Digital Tools

Digital Logbook

Basic Monitoring

Local pressure monitoring

GM AirSeT Active*

React faster to help prevent unplanned downtime with a 24/7 connectivity and Essential condition monitoring using scalable features.

Digital Tools

Digital Logbook

Nearby monitoring

Essential Monitoring

Advanced pressure monitoring

Continuous thermal monitoring

Continuous ambient monitoring (Ambient thermal & humidity monitoring)

Circuit breaker monitoring (Spring charging motor monitoring + Mechanism & coils monitoring)

3 position disconnector monitoring (Disconnector & Earthing motor monitoring)

Arc flash detection

*Check for availability in your region.



Built with sustainability in mind

More than 75% of Schneider Electric products, including GM AirSeT, are Green Premium™ certified, a label achieved by providing industry-leading sustainable value.

All Green Premium products:

- Provide superior transparency in material content, regulatory information, and environmental impact
- Improve resource efficiency throughout the asset's lifecycle, including energy and natural resources, as well as minimize CO_2 emissions
- Retrofit to legacy equipment easily to adapt to digital, IoT-driven practices and maintenance
- Go beyond RoHS and REACH compliance to provide step-by-step substitution of harmful materials and substances throughout the switchgear's lifecycle

Improve operations with EcoStruxure Service Plans

You can optimize the longevity and ownership of GM AirSeT with a variety of services that help you adopt condition-based maintenance to further mitigate risks for your facility. From essential support like asset monitoring, to advanced expertise, EcoStruxure Service Plans are tailored service contracts unique to your business. They combine Schneider Electric's digital knowledge with 24/7 remote and on-site support to provide condition-based and predictive analytics that allow you to perform dynamic maintenance.

Discover how a customized service plan could help improve your operations. Find out more.

EcoStruxure Service Plans enable you to:

- Reduce maintenance activities and downtime by up to 40%* by performing dynamic maintenance
- Mitigate electrical failure risk by up to 75%* by combining environment and thermal monitoring
- Reduce your CO_2 footprint and stay in compliance with environmental standards and regulations
- Access best-in-class experts and support, remotely and on-site, 24/7
- Reduce CapEx up to 30%* by identifying hidden spare capacity or freeing up more capacity with power quality mitigation
- Predict failures and schedule maintenance when needed with condition-based remote monitoring and analytics
- Deliver safer and more efficient operations while making business more resilient and sustainable
- Extend your asset lifecycle up to 25%*

*These percentages are non-contractual and are based on Schneider Electric's experience and expertise for the main root cause of electrical failure risk observed and for which Schneider Electric has developed solutions.

Enhance your service plan with EcoStruxure Asset Advisor

When you couple GM AirSeT with EcoStruxure Service Plans and their digital capabilities, you also get access to EcoStruxure Asset Advisor. This allows you to evaluate live data from your critical connected assets and apply advanced analytics to identify potential threats. With this data, EcoStruxure Asset Advisor gives you the power to choose how you take action when making critical decisions.

Explore how EcoStruxure Asset Advisor can improve your data visibility.

Read more

Technical specifications

Rated voltage (U_r)	12 kV	17.5 kV	24 kV
Rated short-duration power-frequency withstand voltage (U_d)			
Phase to phase, phase to earth, open contact gap	28 kV	38 kV	50 kV
Across the insolating distance	32 kV	45 kV	60 kV
Rated lightning impulse withstand voltage (U_p)			
Phase to phase, phase to earth, open contact gap	75 kV	95 kV	125 kV
Across the insolating distance	85 kV	110 kV	145 kV
Rated frequency (f_r)	50/60 Hz		
Rated normal current (I_r) for busbar	Up to 1250 A		
Rated short-time withstand current (I_k,1s/3s)	16 kA/20 kA/25 kA		
Partition class	PM		
Loss of service continuity class	LSC2		
Ambient air temperature	-5 °C to +40 °C / -25 °C to +50 °C (on request)		
Internal arc classification	IAC AFL / IAC AFLR		
Cubicle height (LV cabinet height 650 mm)	2200 mm		
Cubicle depth incl. wall distance	1250 mm		
Circuit breaker cubicle width	500/600 mm		



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To learn more about GM AirSeT, visit

se.com/gmairset

#InnovationIsInTheAir

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