Overseas Market Research on Single - Phase Reclosers

I. Definition of Single-Phase Recloser

Single-phase reclosers are used to protect single-phase lines, protect and control overhead distribution networks , improve reliability, reduce fire risk, and enable power system control . They can also be used in three-phase circuits where the load is primarily single-phase. In the event of a permanent phase-to-phase ground fault, one phase can be locked out while maintaining power supply to the remaining two-thirds of the system.

Because single-phase reclosers are lighter than large three-phase reclosers, they are typically mounted directly on poles or substation steel structures using built-in mounting brackets, without the need for additional mounting frames.

II. Overview of the Global Recloser Market

According to research by Global Market Insights Inc., the single-phase reclosing market is estimated to be worth $1.1 billion in 2025. It is projected to grow from $1.2 billion in 2026 to $1.9 billion in 2035 , representing a CAGR of 5.5%.

Between 2021 and 2025, the market experienced steady growth, increasing from $819.7 million to $1.0918 billion, with intermediate figures of $868 million, $919.3 million, $973.5 million, and $1.0309 billion, respectively. During this period, market demand gradually accelerated, primarily driven by the increasing emphasis placed on grid reliability, protection, and automation by power companies and various industries, thus fueling the demand for reliable power distribution systems.

The market is projected to accelerate its growth from 2026 to 2030, reaching $1.4541 billion by 2030. Driven by the ongoing transformation towards smart grid technologies and the integration of reclosing and automation systems to enhance network resilience, the market value is expected to steadily increase from $1.1562 billion, $1.2244 billion, $1.2966 billion, and $1.3731 billion.

Between 2031 and 2035, the market will continue to expand, reaching a size of US$1.9368 billion, with subsequent market sizes of US$1.5399 billion, US$1.6308 billion, US$1.727 billion, and US$1.8289 billion. As the market matures, the adoption rate of reclosing devices in both developed and emerging markets will increase, characterized by reduced volatility in this growth trajectory. The growth rate volatility index will decrease in the later part of the forecast period, reflecting stable and sustained demand across various industries.

The power distribution equipment market is one of the major contributors, accounting for approximately 25-30%, as reclosers are an indispensable part of the power distribution system, automatically restoring power supply after transient faults and thus ensuring power reliability. The transmission and distribution market also plays an important role, contributing approximately 20-25%, because single-phase reclosers are used to isolate faults and minimize downtime in the transmission and distribution network, thereby improving grid reliability.

Furthermore, the renewable energy market is becoming a significant driver, contributing approximately 15-20%. With the grid integration of renewable energy sources such as solar and wind power, the demand for reclosing is increasing to cope with fluctuating power inputs and maintain grid stability. The industrial automation and control market contributes approximately 10-12%, as reclosing is increasingly being integrated into power management automation systems in industrial facilities to prevent prolonged power outages and ensure the continuous operation of critical processes.

Finally, the smart grid and IoT markets also play a crucial role, contributing approximately 8-10% of the market share. This is because adopting smart grids equipped with real-time monitoring and fault detection capabilities can improve the efficiency of single-phase reclosing, thereby enhancing overall grid efficiency and reducing recovery time. These parent markets highlight the importance of single-phase reclosing in improving grid reliability, supporting renewable energy grid integration, and enhancing industrial and smart grid operations.

Why is the single-phase recloser market growing?

Driven by global power grid modernization and improved distribution network reliability, the single-phase recloser market is steadily expanding. The increasing electricity consumption in residential, agricultural, and remote rural areas is fueling demand for intelligent fault management systems, in which single-phase reclosers play a crucial role. These devices are gaining increasing attention for their ability to detect, isolate, and automatically restore single-phase line faults, thereby reducing outage time and improving operational efficiency.

The increasing prevalence of distributed energy resources (such as solar and wind power) is further prompting power companies to adopt reclosing systems capable of managing bidirectional power flow. Advances in digital protection and communication technologies are making reclosing systems smarter and more adaptable, enabling seamless integration with SCADA and other grid automation platforms.

Governments and utilities in both emerging and developed economies are investing in robust and self-healing grid infrastructure, creating long-term opportunities for the market. As energy systems become more decentralized and reliability-oriented, single-phase reclosing is expected to continue to be a critical asset for ensuring system continuity and security.

Segmentation analysis

The single-phase recloser market is segmented by control type, disconnection method, rated voltage, and geographic region.

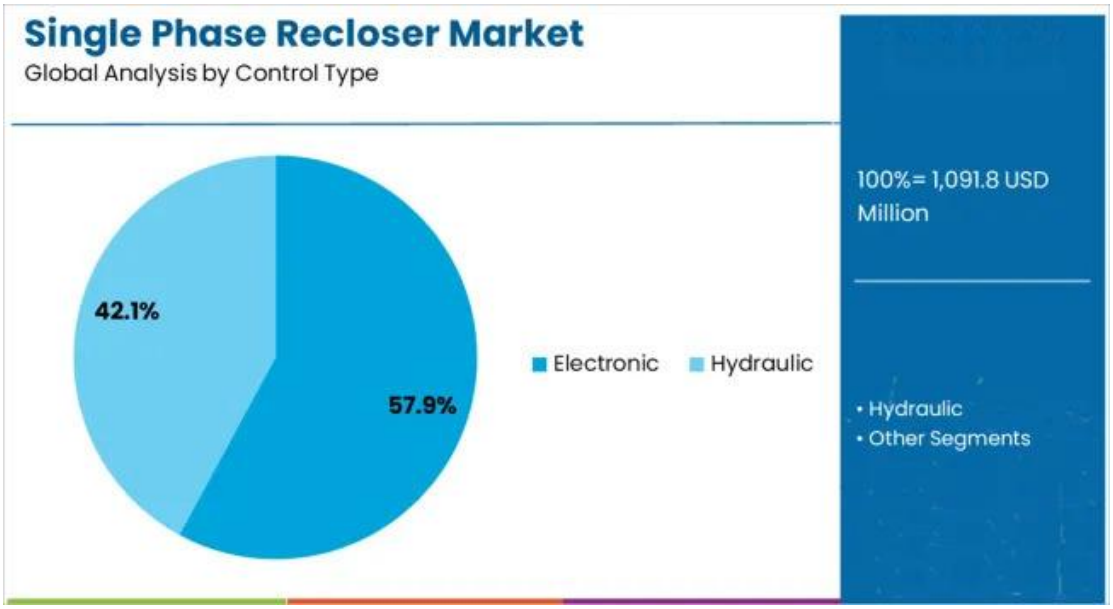
Based on control type , the single-phase recloser market is divided into electronic and hydraulic types.

Based on the method of disconnection , the single-phase recloser market is divided into vacuum type and oil-immersed type.

Based on rated voltage , the single-phase recloser market is divided into 15 kV, 27 kV and 38 kV.

Geographically , the single-phase recloser market is divided into North America, Latin America, Western Europe, Eastern Europe, the Baltic states, Russia and Belarus, Central Asia, East Asia, South Asia and the Pacific region, as well as the Middle East and Africa.

Electronic control type market segment



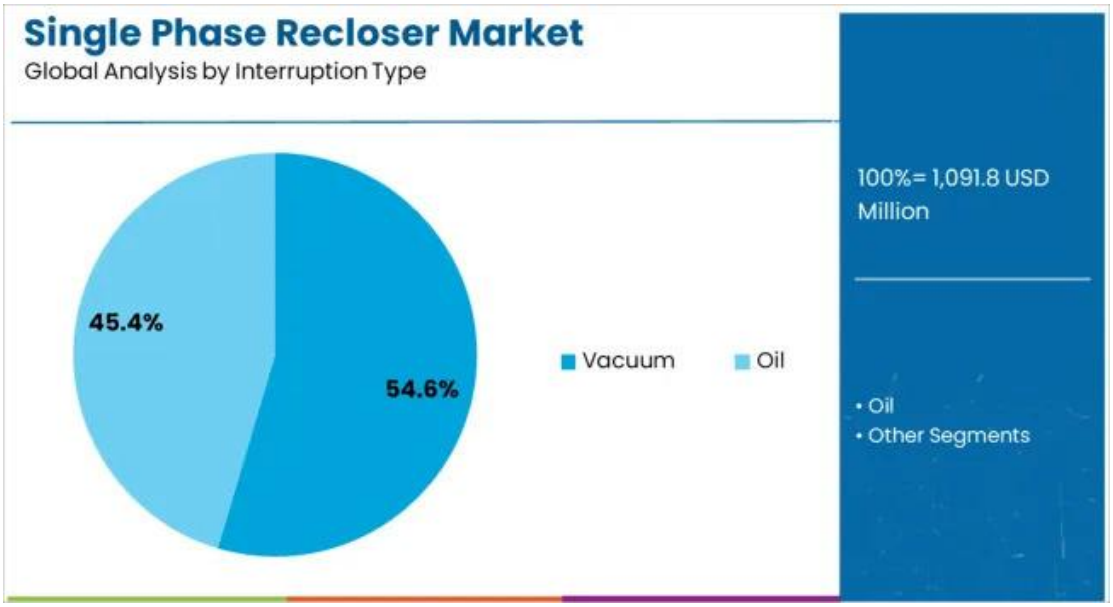
By 2025, electronically controlled single-phase reclosers will hold a 57.9% market share, becoming the leading control mechanism. This market dominance is driven by the rapid adoption of smart grid technologies and the increasing demand for remote monitoring and automatic fault response. Electronic control offers advantages such as accurate fault detection, flexible programming options, and communication compatibility with modern grid management systems.

Their integration with advanced protection schemes and real-time data analysis platforms improves system response speed and reduces outage time. Power companies prefer electronic control systems because of their scalability and ability to support grid automation strategies,

especially in areas susceptible to transient faults and load fluctuations.

Furthermore, these controls enable seamless interoperability with distributed energy resources, thereby supporting grid resilience and energy transition efforts. As utilities prioritize real-time system visibility, asset optimization, and predictive maintenance, electronically controlled reclosing is expected to continue to be favored in new installations and retrofit projects.

Vacuum interruption type market segment



By 2025, vacuum circuit breakers will account for 54.6% of the revenue share in the single-phase reclosing market, becoming the dominant circuit breaker technology. This leading position is primarily due to the superior arc-extinguishing capability, ultra-long service life, and extremely low maintenance requirements of vacuum circuit breakers. Vacuum circuit breakers do not use insulating gases and employ a sealed vacuum chamber, thus ensuring environmental safety and reducing operational risks, aligning with the goals of sustainable development in modern power grids.

Vacuum technology offers high breaking capacity and repeatable operation, making it ideal for power distribution systems prone to frequent transient faults. As power grids expand into remote and rural areas, the reliability of vacuum reclosing helps ensure uninterrupted power supply and reduce downtime.

Cost savings throughout the entire lifecycle, coupled with compatibility with intelligent control units, further enhance the attractiveness of this field to utilities and power distribution companies. Continued innovation in materials science and compact vacuum chamber design is expected to maintain the technology's leading position in reclosing applications.

Voltage Level Segmentation Market

Based on voltage levels, the market can be divided into three categories: 15 kV, 27 kV, and 38 kV. The 27 kV single-phase recloser market is projected to grow at a CAGR of 5.2% by 2035. Demand for 27 kV reclosers is increasing in semi-urban and industrial feeder sectors, where higher load capacities and longer line spans are required for line protection.

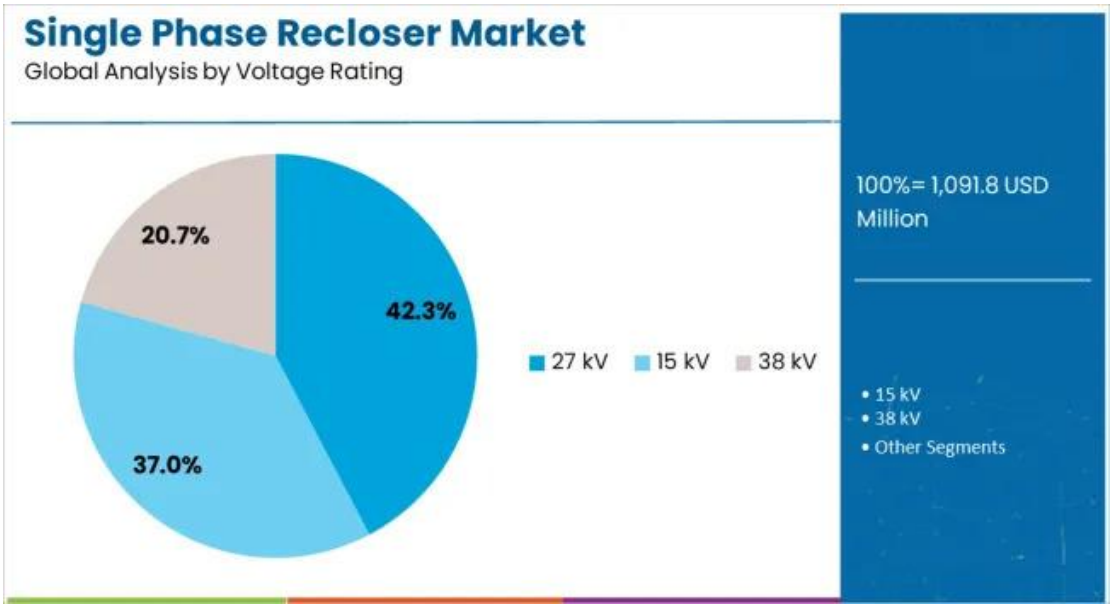
To meet the growing demands of commercial and light industrial users, power companies are upgrading 15 kV systems to 27 kV systems. This trend is particularly pronounced in North America and parts of the Asia-Pacific region, where grid modernization projects emphasize increasing voltage levels to improve efficiency. The 27 kV reclosers are equipped with advanced electronic control systems that can be integrated with SCADA systems and comply with distributed energy interconnection standards.

In November 2025, the Australian government announced a series of investments in utilities, particularly energy transmission projects, with investment expected to more than double over the next five years, reaching US$36 billion. This is expected to facilitate the deployment of new power infrastructure products in the future.

By 2035, the compound annual growth rate of reclosing devices with a rated voltage of 15 kV will reach 5%. The increasing electrification in rural areas of Asia Pacific and Africa is driving demand for this product, especially those equipped with intelligent control systems that enable remote monitoring and automation. Due to their compatibility with existing infrastructure and ease of installation, power companies prefer to use them for lateral protection and end-of-line applications.

The 38 kV reclosing industry is projected to grow at a CAGR of 6% by 2035. This voltage rating is becoming a key choice for power companies managing long-distance rural feeders and integrating renewable energy. Higher voltages reduce line losses and support extended distribution lines, making 38 kV reclosing ideal for distributed generation areas, including wind and solar farms.

Power companies are deploying these reclosers in smart grid projects to improve reliability and accommodate bidirectional power flow. Manufacturers are rolling out solid-state media designs with advanced communication capabilities to meet automation and cybersecurity requirements.



By 2025, 27 kV reclosing will account for 42.3% of the single-phase reclosing market, becoming the leading voltage level. Its dominance is primarily due to its wide applicability in medium-voltage distribution networks, especially in suburban, rural, and agricultural areas where single-phase configurations are prevalent. 27 kV reclosing achieves an optimal balance between fault handling capability and cost-effectiveness, making it the preferred choice for power companies seeking reliable and scalable protection systems.

voltage level	Global market share (%)	BPS (Base Point)	Core Driver
≤15kV (12kV/15kV)	40 - 45	4500 - 5000	Rural grids, distributed systems, emerging markets
15 - 27kV (24kV)	32 - 3 8	2800 - 3200	Urban upgrading, industry and commerce, new energy
27 - 38kV	18 - 22	1800 - 2200	New energy grid connection, high-voltage power distribution

Global Market Trend Size : Unit: US$ billion

voltage level	Scale in 2025	Scale in 2030	5-year increment	Average annual increase

voltage level	Scale in 2025	Scale in 2030	5-year increment	Average annual increase
≤15kV	9.9 - 12.5	12.4 - 15.6	2.5 - 3.1	0.5 - 0.6
15 - 27kV	6.2 - 8.0	9.0 - 11.5	2.8 - 3.5	0.6 - 0.7
27 - 38 kV	4.0 - 5.5	7.0 - 9.5	3.0 - 4.0	0.6 - 0.8
Global total	**20.5 - 27.2**	**28.9 - 38.1**	**8.4 - 10.9**	**1.7 - 2.2**

Its compatibility with overhead line networks and ease of integration with standard pole-mounted equipment have further facilitated its application. With increasing electricity demand in remote and emerging areas, power companies are increasingly deploying 27 kV reclosing systems to ensure voltage stability and minimize power outages.

Regulatory requirements aimed at improving power quality and system resilience have also spurred investment in this voltage level. With infrastructure expansion and a focus on minimizing transmission losses, 27 kV reclosing is expected to remain a crucial component of medium-voltage protection strategies in the global market.

Drivers, constraints and major trends in the single-phase recloser market

The single-phase reclosing market is experiencing steady growth, driven by the increasing demand for reliable and cost-effective solutions in power distribution systems. Single-phase reclosing is crucial for restoring power after transient faults, helping to reduce downtime and improve grid reliability, especially in rural and remote areas. The increase in grid modernization projects, the growing emphasis on reducing outages, and the application of advanced smart grid technologies are key factors driving market growth. Challenges include high initial investment costs and the complexity of integrating reclosing into existing grid systems. Market opportunities lie in the growing demand for automated reclosing, which offers more robust monitoring and control capabilities. Development trends indicate that reclosing is moving towards integration with the Internet of Things (IoT) and advanced communication technologies, enabling real-time data analysis and predictive maintenance. Suppliers providing reliable, intelligent, and cost-effective single-phase reclosing solutions will be well-positioned for long-term market growth.

The demand for grid reliability and reduced power outages is growing.

The primary driver of the single-phase reclosing market is the need to improve grid reliability and reduce outage frequency. Single-phase reclosing plays a crucial role in rapidly restoring power after transient faults, preventing prolonged outages and enhancing the overall stability of the

distribution network. With accelerating urbanization and industrialization, and increasing electricity dependence, especially in remote and rural areas, power companies are increasing their investment in reclosing technology to ensure uninterrupted power supply. Furthermore, improved operational efficiency and reduced maintenance costs are also factors driving the growth in reclosing demand. As power companies continue to modernize their grids and adopt more advanced fault detection and response systems, the single-phase reclosing market is expected to grow steadily.

Cost, supply, regulation and technology limitations

The single-phase recloser market faces numerous challenges, particularly the high initial investment costs, which may deter small utilities and distribution companies from adopting advanced recloser systems. The cost of advanced technologies, including automation and communication features, further increases overall expenditure. Furthermore, integrating reclosers into existing grid infrastructure can be technically complex, requiring retrofitting of distribution systems and effective operator training. Regulatory constraints, such as grid safety standards requiring adherence to safety protocols, add to installation complexity. Additionally, the supply of critical components such as recloser switches and controllers is subject to market fluctuations, potentially impacting production schedules and delivery times. Manufacturers must address these challenges while ensuring product reliability and efficiency.

Opportunities in Smart Grid Integration and Automation

The market opportunity for single-phase reclosing is growing as smart grid technology and the automation of distribution systems continue to advance. The integration of reclosing with advanced monitoring systems and IoT devices enables real-time fault detection, automated decision-making, and remote control of distribution systems. These automated systems improve grid management, reduce downtime, and lower operating costs through predictive maintenance. Demand for smart reclosing with remote monitoring capabilities is expected to rise as utilities and power suppliers prioritize grid resilience and automation. Furthermore, the transition to renewable energy typically requires more robust grid management solutions, providing reclosing manufacturers with further opportunities to innovate and deliver products that meet these evolving needs.

The development trends of remote monitoring, the Internet of Things and predictive maintenance

The single-phase recloser market is moving towards integrating remote monitoring capabilities, IoT technology, and predictive maintenance solutions. By integrating advanced sensors and communication systems, reclosers can provide real-time data on fault conditions, performance indicators, and maintenance needs. This data is crucial for power companies to conduct predictive maintenance, helping to reduce the likelihood of unplanned outages and improve system performance. IoT-enabled reclosers can seamlessly integrate with central control systems, enabling power companies to remotely monitor and control reclosers across large geographical areas. This trend is driving the development of smarter, more efficient reclosers, thereby optimizing grid performance, reducing operating costs, and improving service reliability. The application of these technologies is expected to increase significantly as the demand for smart

grid systems grows.

Application Analysis

The application areas of the single-phase reclosing market can be divided into distribution, industrial, commercial, and other sectors. Distribution users constitute the largest end-user group. Power companies are increasingly deploying single-phase reclosing to improve grid reliability, reduce outage time, and enhance customer satisfaction. The grid integration of renewable energy sources such as solar and wind power has brought new operational challenges, thus requiring advanced protection and automation equipment. Single-phase reclosing plays a crucial role in managing bidirectional power flow, maintaining voltage stability, and ensuring seamless grid integration of distributed energy resources.

The industrial sector is experiencing significant growth, primarily driven by the expansion of manufacturing plants, data centers, and other critical infrastructure. Industrial users require reliable and uninterrupted power supplies to support complex operations and minimize downtime. Single-phase reclosing is being widely adopted to enable rapid fault detection and isolation, helping industrial facilities maintain operational continuity and protect sensitive equipment. The increasing automation and digitalization of industrial processes further enhances the demand for advanced protection and control solutions.

Commercial applications, including office buildings, shopping malls, and healthcare facilities, are also driving the growth in demand for single-phase reclosing. These locations require high levels of power quality and reliability to support daily operations and ensure the safety and comfort of personnel. The proliferation of electric vehicle charging infrastructure and the integration of energy storage systems have increased load volatility, necessitating the deployment of smart reclosing systems capable of real-time monitoring and adaptive reclosing. As commercial users prioritize energy efficiency and sustainability, the adoption of smart grid technologies and advanced protection devices is expected to increase.

The "Other" category encompasses a wide range of applications, including transportation, telecommunications, and public infrastructure. The electrification of transportation networks, the expansion of railways, and the development of smart cities are creating new opportunities for the deployment of single-phase reclosers. These devices are being used to improve the reliability and resilience of critical infrastructure, support the grid connection of renewable energy, and enable efficient fault management. This application area is expected to continue growing during the forecast period as governments and utilities increase their investments in infrastructure construction and modernization.

Application-based baseline share (BPS) analysis

Application areas	Global market share (%)	BPS (Base Point)	Core Driver
power distribution	60 - 65	6000 - 6500	Distribution network automation, rural power grid, and new energy grid connection
industry	20 - 25	2000 - 2500	Manufacturing upgrades, highly reliable power supply, microgrids
Business	8 - 12	800 - 1200	Commercial real estate, data centers, charging stations
other	3 - 5	300 - 500	Rail transit, special scenarios, incremental power distribution networks

BPS Trend (2025 - 2030)

Power distribution : Its share declined slightly (by 0.5 to 1 percentage point per year), but its absolute size continued to grow.

Industry : Its share increases by 0.8 to 1.5 percentage points annually, becoming the main driver of growth.

Commercial : Market share increases by 0.5 to 1 percentage point annually, showing steady growth.

Other : Market share remained basically stable.

Global Market Opportunity Assessment: Unit: US$100 Million

Application areas	Scale in 2025	Scale in 2030	5-year increment	Average annual increase
power distribution	13.2 - 16.3	18.5 - 23.4	5.3 - 7.1	1.1 - 1.4
industry	4.4 - 6.3	7.5 - 10.5	3.1 - 4.2	0.6 - 0.8
Business	1.8 - 3.0	3.0 - 5.0	1.2 - 2.0	0.2 - 0.4
other	0.7 - 1.3	1.1 - 2.0	0.4 - 0.7	0.1 - 0.14
Global total	**20.1 - 26.9**	**30.1 - 40.9**	**10.0 - 14.0**	**2.0 - 2.8**

Installation Analysis

The installation methods for single-phase reclosers are divided into pole-mounted and substation-mounted. Pole-mounted reclosers are the most widely used configuration, especially in overhead distribution networks. These devices, installed on utility poles, can quickly detect and isolate faults, minimizing outage time and improving power supply reliability. Pole-mounted reclosers are favored due to their ease of installation, cost-effectiveness, and suitability for rural and suburban areas with dense overhead lines. Power companies are increasingly incorporating pole-mounted reclosers as part of their grid modernization programs, leveraging their advanced automation and remote control capabilities to improve operational efficiency.

While substation-mounted reclosers are less common than pole-mounted reclosers, they play a crucial role in protecting high-value assets and ensuring the reliability of the main distribution network. These reclosers are installed within substations to provide comprehensive protection for transformers, switchgear, and other critical equipment. Substation-mounted reclosers are typically used in urban and industrial areas with complex and costly infrastructure requiring advanced protection and control solutions. The integration of digital sensors, communication modules, and predictive analytics technologies enhances the performance and reliability of substation-mounted reclosers, enabling power companies to implement proactive maintenance and fault management strategies.

The choice between pole-mounted and substation-mounted reclosers is influenced by a variety of factors, including grid topology, load characteristics, and regulatory requirements. Power companies typically employ hybrid solutions, deploying both types of reclosers simultaneously to optimize protection and automation across different distribution networks. The increasing emphasis on grid flexibility and resilience is driving power companies to invest in reclosers with advanced features such as programmable logic, remote control, and real-time diagnostics. This trend is particularly pronounced in markets with high renewable energy penetration, as the ability to manage dynamic and bidirectional power flows is crucial for maintaining grid stability.

Advances in installation technology, hardware, and communication systems have improved the ease of deployment and operational efficiency of pole-mounted and substation-mounted reclosers. Manufacturers are developing modular and scalable solutions that can be customized to specific application needs, enabling power companies to optimize protection and automation across various distribution networks. Driven by continued investment in grid modernization and smart grid technologies, the installation sector is poised for sustained expansion as global demand for reliable and efficient power distribution continues to grow.

Base Point Share (BPS) Analysis by Installation Method

Installation method	Global market share (%)	BPS (Base Point)	Core Driver
pole mounting	70 - 75	7000 - 7500	Rural power grid, distributed

Installation method	Global market share (%)	BPS (Base Point)	Core Driver
			generation, distribution network automation, emerging markets
Substation installation	25 - 30	2500 - 3000	Substation upgrades, renewable energy grid connection, and high-reliability power supply

BPS Trend (2025 – 2030)

Pole-mounted installations : The market share declined slightly (by -0.5 to -1 percentage points per year), but the absolute scale continued to grow.

Substation installation : its share increases by 0.8 to 1.5 percentage points annually, becoming the main driver of growth.

Opportunity assessment by installation method : Unit: US$ billion

Installation method	Scale in 2025	Scale in 2030	5-year increment	Average annual increase
pole mounting	15.4 - 18.8	21.0 - 26.5	5.6 - 7.7	1.1 - 1.5
Substation installation	5.5 - 7.5	9.5 - 13.5	4.0 - 6.0	0.8 - 1.2
Global total	20.9 - 26.3	30.5 - 40.0	9.6 - 13.7	1.9 - 2.7

Analysis of Single-Phase Recloser Market in Major Countries

Based on the control method, the market can be divided into two main categories: electronic control and hydraulic control. In 2025, the market share of electronically controlled single-phase reclosers was 61.7%. The electronic control systems in single-phase reclosers are increasingly integrating with smart grid platforms and IoT technologies.

Power companies are prioritizing the adoption of advanced communication protocols, including IEC 61850, DNP3, and Modbus, to enable real-time monitoring, remote operation, and predictive maintenance. These controls enable power companies to build self-healing networks, reduce outage times, and optimize grid performance. This trend is driven by the need for automation, distributed energy integration, and compliance with modern grid standards.

The electronic control system also supports cybersecurity features and cloud-based analytics, making it an integral part of the digital grid transformation. For example, SEL upgraded its SEL-651R advanced reclosing controller to comply with the IEEE 1547-2018 standard, enabling rapid detection of islanded operation of distributed energy resources and seamless automation using Ethernet-based redundancy protocols. These capabilities align with power companies' smart grid and resilience objectives.

Modern electronic control systems are evolving from basic reclosing functions to include advanced protection schemes, fault diagnosis, and data analysis. Power companies can now use sophisticated algorithms to detect high-impedance faults, broken conductors, and surge currents. These capabilities help improve safety, reduce wildfire damage, and enhance operational efficiency.

The widespread adoption of distributed energy resources necessitates adaptive protection systems. Electronic control devices in reclosing systems now support the IEEE 1547-2018 distributed energy grid connection standard, ensuring safe synchronization and fault management. These control devices facilitate bidirectional power flow and dynamic voltage regulation, which are crucial for grids with high renewable energy penetration.

For example , in January 2025, GE announced it would invest more than $600 million in its U.S. factories and facilities over the next two years. This investment will primarily focus on natural gas power generation, power grids, nuclear power, and onshore wind power manufacturing facilities, aiming to meet the growing electricity demands of domestic and international customers.

By 2035, the compound annual growth rate of hydraulic single-phase reclosing will reach 5.3%. Hydraulic control systems will remain important in cost-sensitive markets and traditional power grids. Hydraulic reclosing offers advantages such as simple structure, high reliability, and low maintenance costs, making it ideal for rural power lines and areas with limited automation budgets.

For example, ABB's Eagle single-phase recloser features an easily replaceable hydraulic unit, indicating that the demand for hydraulic solutions remains strong in rural and traditional systems. This product is compatible with traditional protection curves and supports future upgrades.

The emergence of hybrid designs that combine hydraulic mechanisms with electronic control interfaces has further propelled industry development. These solutions enable utilities to add remote monitoring and automation capabilities while maintaining the robustness and durability of hydraulic systems. This approach is particularly attractive to utilities looking to upgrade existing infrastructure without undertaking a full electronic overhaul.

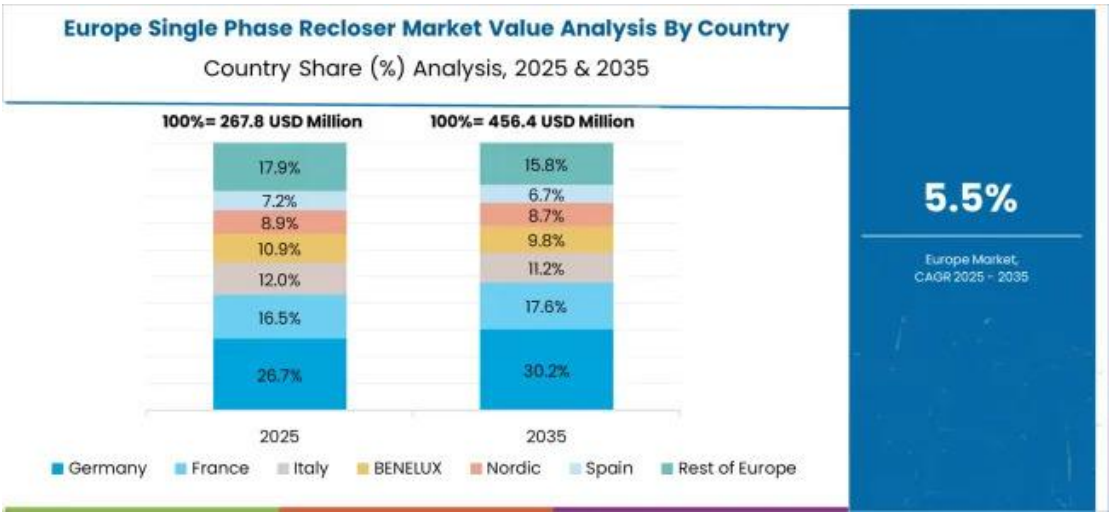
Overall, the global single-phase recloser market is projected to grow at a CAGR of 5.9% between 2025 and 2035. India's growth is 7.4%, and Germany's is 6.8%. The UK and US will see more moderate growth rates of 5.6% and 5.0%, respectively. Factors driving market growth include increased investment in grid modernization, grid integration of renewable energy, and the

demand for reliable and uninterrupted power supply across industries. Government initiatives and the rise of smart grid technologies have further promoted the adoption of single-phase reclosers in these regions.

Indian Single-Phase Recloser Market Sales Performance

The Indian single-phase reclosing market is projected to grow at a CAGR of 7.4% between 2025 and 2035. With the continued development of India's power infrastructure, particularly in rural areas, the demand for reliable and efficient distribution systems is increasing. Single-phase reclosing is crucial for minimizing power outages, especially in areas prone to electrical faults. The rapid integration of renewable energy sources such as solar and wind power into the national grid is also driving the demand for smart grid systems that can effectively manage power distribution. India's commitment to improving electrification and grid reliability in rural areas is further fueling the demand for single-phase reclosing. Furthermore, India's ongoing investment in smart grid technologies and the modernization of its distribution networks is playing a key role in market growth.

Analysis of Market Opportunities for Single-Phase Reclosers in Germany



The German single-phase recloser market is projected to grow at a CAGR of 6.8% between 2025 and 2035. The primary driver of this growth is Germany's commitment to improving grid reliability and stability. With the continued increase in demand for stable and uninterrupted power supply, particularly in industrial and urban areas, the need for advanced distribution technologies such as single-phase reclosers is also growing. Germany's emphasis on smart grids and its efforts to integrate renewable energy into the national grid further fuel market growth. The increasing adoption of automation and smart technologies in power companies is also promoting demand for reclosers capable of automatically detecting faults and restoring power. Germany's high standard of living and the demand for reliable power supply in both commercial and residential sectors further drive the application of reclosers.

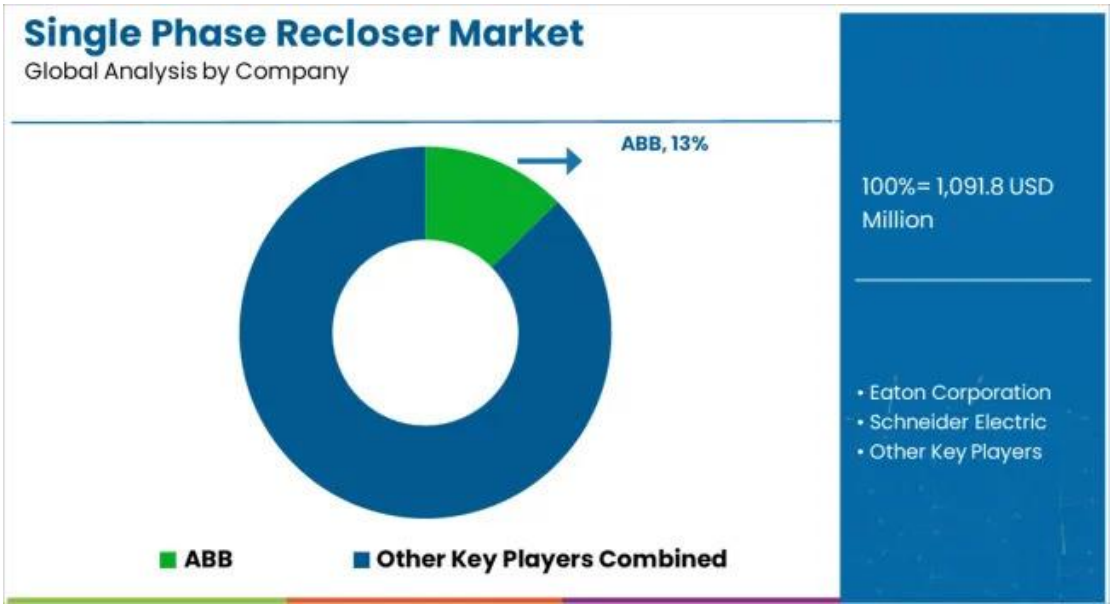
UK Single-Phase Recloser Market Demand Outlook

The UK single-phase reclosing market is projected to grow at a CAGR of 5.6% between 2025 and 2035. The UK is committed to modernizing its power infrastructure, focusing on improving grid stability and reducing outages. The growing demand for a continuous and reliable power supply in both urban and rural areas is driving the adoption of reclosing. As part of its energy transition, the UK is integrating more renewable energy into the grid, requiring advanced solutions like single-phase reclosing for efficient power management. Furthermore, the UK's emphasis on smart grid systems and automation technologies is increasing the demand for reclosing devices that can automatically restore power after an outage. Government investments in infrastructure and energy-saving technologies further fuel this demand for such solutions.

US Single-Phase Recloser Market Consumption Trends

The U.S. single-phase reclosing market is projected to grow at a CAGR of 5.0% between 2025 and 2035. The U.S. has a large and diverse power grid, leading to a growing emphasis on improving the reliability and efficiency of distribution systems. The increasing demand for uninterrupted power supply, particularly in critical sectors such as healthcare, manufacturing, and residential areas, is driving demand for advanced power protection technologies such as single-phase reclosing. The integration of renewable energy sources like wind and solar power into the grid is further fueling market growth, as this necessitates smart grid management systems to ensure a stable power supply. As the U.S. increases its investment in modernizing aging infrastructure, the growing demand for automated systems capable of detecting faults and quickly restoring power will further boost the single-phase reclosing market.

Single-phase recloser market competition landscape



The single-phase recloser market is highly competitive, with several major manufacturers dedicated to providing reliable and efficient solutions for power distribution systems. ABB is the market leader, offering advanced reclosers widely used in utilities and industry. The company focuses on innovation in automation and protection to ensure optimal reliability and security for power distribution networks. Eaton holds a strong competitive advantage in the market with its reclosers designed specifically for grid modernization and improved operational efficiency.

Eaton's products focus on minimizing power outages and reducing downtime, and integrate with smart grid technologies to improve the overall power distribution process. Schneider Electric also plays a significant role in the market with its single-phase reclosers that can be seamlessly integrated into smart grids, contributing to improved energy efficiency and grid stability. The company is committed to providing scalable, durable, and high-performance products for urban and rural infrastructure. Siemens, a leading global electrical engineering company, offers reclosers that integrate advanced digital monitoring systems and cutting-edge protection technologies, making them suitable for a wide range of applications, from distribution networks to renewable energy grid integration.

NOJA Power and S&C Electric are also strong competitors, with NOJA Power focusing on automation and reliability in reclosing design. S&C Electric's solutions are widely used in advanced protection and control of power grids, providing high-performance reclosing that can quickly isolate faults and restore power. G&W Electric and Hubbell's reclosing products are known for their durability and efficiency in distribution systems, while ARTECHE, Tavorida Electric, and ENTEC focus on providing cost-effective reclosing solutions tailored to the needs of different regions.

like Shinsung Industrial Electric , Hughes Power System , L&R Electric Group, and ENSTO offer

specialized solutions for niche markets, emphasizing affordability and simple design. Their product brochures highlight features such as fault detection, rapid recovery capabilities, automation, and integration with modern control systems, helping power companies ensure the stable and reliable operation of their distribution systems. Their competitive strategies focus on enhancing product durability, maintainability, and integration with smart grid technologies.

Key players in the single-phase recloser market

ABB
Eaton
Schneider
Siemens
NOJA Power
S&C Electric
G&W Electric
Hubbell
ARTECHE
Tavrida Electric
ENTEC
Shinsung Industrial Electric
Hughes Power System
L&R Electric
ENSTO

Key participants
Market leader: ABB will hold more than 8% market share by 2025.
Key players: The top 5 players in this market include ABB, Eaton, Siemens, Schneider Electric, and NOJA Power, which together account for 35% of the market share.

Single-phase recloser market segmentation

Control type:

electronic
Hydraulics

Interrupt type:

vacuum
Oil

Rated voltage:

15 kV
27 kV
38 kV

area:

North America

USA
Canada
Mexico

Latin America

Brazil
Chile
Other parts of Latin America

Western Europe

Germany
U.K.
Italy
Spain
France
Other regions of Western Europe

Eastern Europe

Russia
Poland
Hungary
Other parts of Eastern Europe

East Asia

China
Japan
South Korea

South Asia and the Pacific

India
ASEAN
Australia and New Zealand
South Asia and other parts of the Pacific

Middle East and Africa

Kingdom of Saudi Arabia
Other Gulf Cooperation Council countries
Türkiye
South Africa
Other African Unions
Other parts of the Middle East and Africa

Regional advantages
Largest market: Asia-Pacific region
Fastest growing regions: Middle East and Africa

Growth opportunities for single-phase reclosers

The modernization of aging power infrastructure is a key driver of the development of single-phase reclosing. Global power companies are investing in advanced protection devices to improve grid reliability and reduce outage time. Single-phase reclosing plays a crucial role in rural and suburban power grids that are primarily based on single-phase feeders. This product can automatically isolate faults and restore power supply without human intervention, ensuring power continuity, which is essential for areas frequently affected by weather-related disturbances. As power grids evolve towards smarter and more resilient systems, reclosing is becoming indispensable for maintaining service quality and operational efficiency.

In July 2024, the U.S. Department of Energy released an updated grid modernization strategy, emphasizing the use of advanced electrical equipment to enhance the resilience and reliability of

distribution networks. The strategy outlines investments in automation components to support the power sector's goal of achieving net-zero carbon emissions by 2035.

Smart grids require intelligent devices with real-time monitoring and automatic fault management capabilities. Single-phase reclosing devices equipped with electronic control and IoT functions enable power companies to integrate SCADA systems, predictive maintenance, and remote operation. This reduces operating costs and shortens outage response times.

In 2025, SEL launched the SEL-651R Advanced Reclosing Controller, which supports the IEEE 1547-2018 standard and can quickly detect the islanded operation status of distributed energy resources. This innovation reflects the growing demand for intelligent reclosing in smart grid deployments.

The global transition to renewable energy has brought power fluctuations and intermittency, necessitating robust protection solutions. This product addresses these fluctuations by providing automatic fault isolation and rapid recovery, ensuring grid stability. Its role becomes even more critical as distributed generation expands in rural and semi-urban areas where single-phase feeders are prevalent.

Electrification projects in developing regions have driven demand for cost-effective and reliable protection devices. Single-phase reclosing is ideal for rural feeders, where deploying three-phase systems is economically impractical. Single-phase reclosing minimizes outages and reduces maintenance costs, making it the preferred choice for power companies expanding service coverage in remote areas.

Single-phase reclosing market trend

Regulators are mandating automation of distribution networks to improve reliability and efficiency. Single-phase reclosing devices with electronic control and remote operation capabilities perfectly meet these requirements, enabling power companies to reduce operating costs while meeting compliance requirements.

The U.S. Department of Energy’s Grid Modernization Program includes an automation-focused initiative under its “Equipment and Integrated Systems” pillar, aimed at promoting the deployment of smart reclosers to enhance grid control.

Extreme weather events, including storms, wildfires, and floods, cause frequent power outages, prompting power companies to adopt automated fault management solutions. This product can restore power after transient faults without human intervention, significantly reducing outage time and improving power resilience in vulnerable areas.

In July 2025, the National Oceanic and Atmospheric Administration (NOAA) announced that 27 climate-related disasters occurred in the United States in 2024, each causing losses exceeding $1 billion, with total losses estimated at approximately $182.7 billion. This weather uncertainty and

related events will prompt wider adoption of the product nationwide, thereby driving industry growth.

Manufacturers are rolling out reclosers with advanced features, including IoT integration, predictive analytics, and adaptive fault current settings. These innovations improve reliability, reduce downtime, and support power companies' transition to digital grids. Enhanced programmability and communication capabilities make single-phase reclosers a cornerstone of modern distribution systems.

S&C Electric will continue to actively promote and improve its TripSaver II circuit breaker recloser in 2025, emphasizing its role in improving grid edge visibility and fault isolation. This product integrates advanced data analytics and automation capabilities, aligning with power companies' goals of digitalization and enhanced grid resilience.

Power companies face pressure to optimize costs while improving reliability. Single-phase reclosing can automatically restore power after temporary faults, reducing vehicle uptime and manual intervention. This increase in operational efficiency translates into significant cost savings, especially for power companies managing vast rural power grids.

Governments and power companies worldwide are investing heavily in enhancing the resilience of power grids against outages and cyber threats. Single-phase reclosing, with its automation and fault isolation capabilities, is an integral part of these resilience strategies, ensuring uninterrupted power supply to critical industries.

In July 2025, the European Union released new guidelines for its Affordable Energy Action Plan, aimed at accelerating the deployment of grid and energy storage infrastructure in EU member states. The plan emphasizes modernizing distribution networks using automated components to improve their resilience to power outages and integrate renewable energy. This includes adopting advanced protection devices, such as reclosing mechanisms, to ensure fault isolation and rapid recovery in distributed grids.