

Synchronous Condenser Global Market Insights 2026, Analysis and Forecast to 2031

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Abstracts

The global landscape for synchronous condensers in 2026 is defined by a critical pivot in how power grids manage mechanical inertia and reactive power in the wake of the total decoupling of generation from traditional rotating mass. As of early 2026, the market size is estimated to be between 510 million USD and 930 million USD. This sector has moved from a legacy status—once considered a relic of the mid-20th century—to a fundamental strategic pillar of the modern energy transition. The current market logic is driven by the inertia deficit caused by the rapid decommissioning of coal and gas-fired thermal plants, which historically provided the kinetic energy necessary to stabilize grid frequency.

In the 2026 environment, synchronous condensers are no longer viewed simply as voltage regulators but as grid strength providers. This shift is characterized by the integration of massive high-inertia flywheels and sophisticated automation housed in prefabricated eHouse units. The forecasted Compound Annual Growth Rate (CAGR) from 2026 to 2031 is expected to settle between 2.1 percent to 3.7 percent. While the growth rate appears moderate, it reflects a disciplined capital expenditure cycle focused on high-value, large-scale infrastructure projects rather than commodity-level hardware. Strategic investments are increasingly flowing from infrastructure funds, such as Quinbrook Infrastructure Partners, which see frequency response and grid stability as uncorrelated, long-term yield assets.

Information gain in this sector stems from the integration of digital twin technology and advanced magnetizing rigs that allow refurbished units to meet or even exceed Original Equipment Manufacturer (OEM) specifications. As manufacturing margins tighten globally, the ability to extend the operational life of high-precision motion assets by an additional five to ten years provides a significant competitive advantage to end-users in

high-tech sectors. Furthermore, the rise of 'as-a-service' models in industrial automation is forcing providers to prioritize the longevity of their hardware fleets, directly fueling the demand for high-tier refurbishment capabilities that can handle the latest generation of smart actuators.

Regional Market Analysis

The geography of the synchronous condenser market is being reshaped by the varying degrees of renewable penetration and the technical requirements of localized grid stability programs.

Europe: Holding a dominant strategic position, Europe is the vanguard of grid stabilization technology. The island of Ireland, in particular, has emerged as a global testing ground. The acquisition of the 963 MVA.s Wexford Synchronous Condenser Project by Quinbrook Infrastructure Partners on July 28, 2025, represents a landmark in private infrastructure investment. Furthermore, the alliance between Elecnor and Statkraft has intensified, with Elecnor securing two new contracts in February 2026 to double its participation in the Irish grid stability program. This concentration of activity is a direct response to Ireland's ambitious wind energy targets, which necessitate significant artificial inertia to prevent frequency collapses during low-wind periods.

North America: Holding a share estimated between 28 percent to 33 percent, the North American market is driven by the dual needs of aging utility infrastructure and the meteoric rise of the data center industry. The partnership extension between ABB and VoltaGrid on March 27, 2026, to supply 27 synchronous condensers with flywheels for data center microgrids highlights a new industrial application for this technology. US utilities are increasingly opting for 'Inertia-as-a-Service' models to support the integration of massive solar farms in the Sun Belt while managing the retirements of fossil-fuel baseload plants.

Asia-Pacific: Holding an estimated market share of 35 percent to 40 percent, this region remains the primary volume driver. China's ultra-high-voltage (UHV) transmission networks require significant reactive power compensation at terminal points. In Taiwan(China), the demand is tied to the stability of power supplies for advanced semiconductor fabrication plants, where even millisecond-long voltage dips can result in hundreds of millions of dollars in losses. The rapid expansion of solar and wind clusters in Northwest China also creates a

persistent demand for SynCons to maintain short-circuit levels.

South America: Representing a share of 5 percent to 8 percent, growth is concentrated in Brazil. The extensive distance between hydro-generation hubs in the Amazon and coastal load centers necessitates synchronous condensers to maintain voltage levels across long-distance transmission corridors. Recent grid strengthening projects in the northern regions have utilized SynCons to prevent voltage collapses during peak industrial demand hours.

Middle East and Africa (MEA): Capturing a share of 3 percent to 6 percent, the MEA market is focused on large-scale solar thermal and desalination projects in the GCC countries. The integration of synchronous condensers ensures that remote solar installations do not destabilize the primary grid during rapid cloud-cover transitions. Saudi Arabia and the UAE are specifically investing in SynCon modules to support their 2030 renewable targets.

Application and Segmentation Analysis

The application of synchronous condensers is bifurcated between traditional utility stabilization and high-stakes industrial microgrids, with specialized segments emerging to address the high-frequency response needs of digital infrastructure.

Electrical Utilities: This remains the foundational segment. Utilities are utilizing synchronous condensers to provide short-circuit current and frequency support that intermittent renewables cannot supply. The 2026 trend is toward hybrid solutions, where synchronous condensers are paired with Battery Energy Storage Systems (BESS) to provide both fast frequency response and deep mechanical inertia. This combination allows utilities to mimic the behavior of large-scale coal or nuclear plants while operating on a 100 percent renewable feedstock.

Industrial Sector: The March 2026 ABB-VoltaGrid partnership signals a significant pivot toward industrial microgrids, specifically for data centers and mining operations. These facilities require ultra-reliable power quality. Synchronous condensers provide the 'ride-through' capability needed to transition between grid power and onsite backup generation without disrupting sensitive digital equipment. In 2026, the emergence of high-density AI server farms has made voltage stability a mission-critical metric, driving industrial

players to install behind-the-meter SynCons to insulate their operations from grid volatility.

Industrial Value Chain Analysis

The value chain of the synchronous condenser industry has evolved from simple electromechanical assembly to a complex ecosystem of power electronics, software integration, and prefabricated logistics.

Raw Material Sourcing and Core Machine Fabrication: The foundation of the value chain involves the procurement of high-grade electromagnetic steel, copper windings, and specialized insulation materials. The 'Value Pool' in 2026 is concentrated in the manufacturing of high-efficiency stators and rotors that can operate in continuous over-excited modes. The use of specialized cooling systems, such as hydrogen or water-glycol, is a key technical differentiator for high-capacity units.

Flywheel and Inertia Enhancement: The integration of high-mass flywheels has become a high-margin sub-segment. These components allow a machine to provide up to five times its native inertia, which is critical for frequency stabilization. Manufacturers that possess proprietary technology for vacuum-sealed flywheel housings to reduce windage losses hold a significant competitive advantage in the 2026 market.

Prefabricated eHouse Integration: As demonstrated by ABB's VoltaGrid project, the move toward modular eHouse units—containing the condenser, excitation systems, and control automation—has significantly reduced onsite installation times and logistics costs. This modularity allows for the rapid deployment of grid stability assets in remote locations or constrained urban data center sites.

Lifecycle Services and Digital Monitoring: In 2026, the value chain is increasingly influenced by digital twins and predictive maintenance. Real-time vibration and thermal monitoring allow operators to extend the life of these massive rotating assets, which are often required to operate for 30 to 40 years. Providing standardized maintenance and remote monitoring contracts has become a recurring revenue stream for major OEMs.

Key Market Player Profiles

ABB

ABB has solidified its position as a global leader in grid stability through a strategy of digital-physical convergence. On March 27, 2026, ABB extended its partnership with VoltaGrid, agreeing to supply 27 synchronous condensers integrated with flywheels and advanced excitation systems housed in prefabricated eHouse units. This deal is particularly noteworthy as it targets the data center sector, a high-growth industrial niche requiring rapid deployment. ABB's core competency lies in its ability to deliver modular grid solutions, combining automation, electrification, and motion technologies. Their technical layout includes the most advanced digital control platforms in the industry, allowing for the seamless integration of synchronous condensers into broader microgrid ecosystems. Strategic dynamics for ABB involve a move toward decentralized stabilization, providing the hardware needed for private energy transition projects across North America and Europe. They are also investing heavily in next-generation flywheel materials to improve inertia-to-weight ratios.

Siemens Energy

Siemens Energy remains the benchmark for large-scale utility grade synchronous condensers, particularly in the European market. Their technical configuration is defined by high-inertia precision, often utilizing hydrogen-cooled machines that offer the highest efficiency ratings globally. Siemens has been a primary beneficiary of the Irish grid stability program, often acting as the lead technology provider for Statkraft's ambitious projects. Their core competency is the ability to retrofit existing thermal power plant infrastructure—repurposing legacy generators into synchronous condensers to preserve historical grid assets. In 2026, Siemens is focusing on grid forming technology, where their condensers work in tandem with power electronics to create a stable frequency reference for offshore wind farms. Their strategic dynamics are characterized by a strong focus on energy sovereignty and high-entry-barrier infrastructure projects in the North Sea and Baltic regions.

GE Vernova

GE Vernova maintains a dominant footprint in the North American and South American

utility markets. Their core competitiveness stems from their extensive heritage in large-scale rotating machinery and their ability to provide comprehensive turnkey solutions. GE's synchronous condensers are noted for their robust short-circuit support, which is a critical requirement for US utilities struggling with low system strength in solar-rich regions. In 2026, GE is leading the market in integrated inertia packages, where the condenser is sold as part of a broader grid-resilience suite. Their technical layout includes specialized vacuum-pressure impregnation (VPI) for windings, ensuring long-term reliability in harsh environmental conditions. Strategic moves for GE involve the expansion of their service network to support the massive installed base of rotating assets being repurposed for the energy transition, particularly in the Brazilian hydropower corridors.

Eaton

Eaton has carved out a distinct niche by focusing on the power quality and protection aspects of the synchronous condenser ecosystem. While they produce smaller-scale units compared to Siemens or GE, their core competency lies in the control and protection layer. Eaton's systems are widely used in industrial applications where the primary goal is voltage stabilization and harmonic filtering. In 2026, Eaton is focusing on microgrid resiliency, helping industrial clients manage the complex transitions between grid-tied and islanded modes. Their strategic orientation is toward sustainability and efficiency, providing the switchgear and power management systems that ensure the synchronous condenser operates at peak efficiency with minimal parasitic loss. They have recently launched a new line of compact SynCons specifically designed for the high-rise data center market in urban hubs.

Voith Group

Voith Group is the undisputed leader in high-inertia flywheel technology, which has become a critical adjunct to the modern synchronous condenser. Their technical layout emphasizes precision-engineered rotating mass that can be coupled to virtually any generator set. Voith's core competency is the mechanical synchronization and vacuum-containment of large flywheels, minimizing air-friction losses and maximizing the kinetic energy available for grid support. In 2026, Voith is increasingly acting as a specialized sub-contractor for major OEMs like Siemens and ABB, providing the inertia-boosting modules needed for frequency response projects. Their strategic dynamics involve a move toward composite flywheel material science, aiming to reduce the weight-to-inertia

ratio and improve the safety profiles of high-speed rotating assets. They are currently exploring the use of high-strength carbon fiber for next-generation flywheel rims.

Fuji Electric

Fuji Electric is a major player in the Asia-Pacific market, particularly in Japan and Southeast Asia. Their technical configuration focuses on efficiency in compact design, providing synchronous condensers that are ideally suited for the high-density urban grids of Asia. Fuji's core competency is their advanced power electronics for excitation control, which allows for extremely fast reactive power response. In 2026, Fuji is focusing on the renewable hub market in India and Vietnam, where rapid industrialization is outpacing grid infrastructure. Their strategic moves involve a strong emphasis on localized maintenance, building regional service centers to support the long-term operation of their machines in humid and tropical environments. They are also a key competitor in the terminal market for high-voltage DC (HVDC) interconnectors across the Japanese islands.

WEG

WEG, headquartered in Brazil, is a global powerhouse in the manufacture of large motors and generators, and they have leveraged this expertise to dominate the South American synchronous condenser market. Their core competency is their total vertical integration, from casting and winding to final assembly. In 2026, WEG is playing a vital role in Brazil's transmission expansion, providing the hardware needed to stabilize 800kV UHV lines. Their technical layout is noted for its robustness and ease of maintenance in remote geographic locations. Strategic dynamics for WEG involve the expansion of their manufacturing footprint in Europe and North America, positioning themselves as a high-quality, cost-effective alternative to the traditional industrial giants. They are recently focusing on synchronous compensators for large-scale mining projects in the Andean region.

BRUSH Group

BRUSH Group is a specialist provider of generators and synchronous condensers, with a strong focus on the UK and North American markets. Their core competency is the custom engineering of synchronous condensers for specific site constraints, providing

bespoke solutions where standard machines cannot fit. In 2026, BRUSH is recognized for its leadership in the aftermarket and retrofit sector, specializing in the conversion of decommissioned gas turbines into high-performance synchronous condensers. Their technical layout includes advanced diagnostic tools for assessing the health of legacy insulation systems. Strategic moves for BRUSH involve a push into the digital health monitoring space, offering subscription-based services that track the thermal and mechanical integrity of their rotating assets. They have recently secured multiple contracts for the UK's Pathfinder stability projects.

ANDRITZ

ANDRITZ is a major global player with a specific focus on the hydroelectric and renewable energy sectors. Their synchronous condenser portfolio is a natural extension of their expertise in hydro-generators. ANDRITZ's core competency is the large-scale mechanical integration, providing machines that can handle the massive torque and inertia requirements of modern grid stabilization programs. In 2026, ANDRITZ is a key partner for European utilities, particularly in projects that combine hydro-generation with dedicated synchronous compensation. Their technical layout emphasizes the use of sustainable materials and high-efficiency cooling systems. Strategic dynamics for ANDRITZ include a strong focus on the circular economy, offering programs to upgrade and life-extend aging synchronous machines rather than replacing them with new hardware.

Ansaldo Energia

Ansaldo Energia is a cornerstone of the European power generation industry, focusing on high-performance gas turbines and generators. Their entry into the synchronous condenser market is characterized by a dual-use philosophy, providing new machines as well as conversion kits for legacy thermal assets. Ansaldo's core competency lies in their deep metallurgical and mechanical knowledge, ensuring that their rotating assets can withstand the extreme stresses of continuous grid support. In 2026, Ansaldo is a significant player in the Mediterranean and North African regions, providing the grid strength needed for cross-continental renewable energy interconnections. Their strategic moves involve a focus on fast-track projects, delivering and commissioning grid-stabilizing assets in record time to meet urgent national energy security needs.

Mitsubishi Heavy Industries

Mitsubishi Heavy Industries (MHI) occupies a leadership position in the high-capacity segment of the market, particularly in the APAC and Middle East regions. Their core competency is the engineering of ultra-large synchronous condensers used at the hubs of national power grids. In 2026, MHI is focusing on the integration of SynCons with large-scale hydrogen power projects, where the condenser provides the necessary system strength for hydrogen-fired generation. Their technical layout is characterized by exceptional thermal management and high-reliability excitation systems. Strategic dynamics for MHI involve the expansion of their 'Smart Grid' portfolio, where synchronous condensers are used as part of an automated energy management system to balance the variability of multi-gigawatt offshore wind clusters.

Ideal Electric Power

Ideal Electric Power is a specialized North American manufacturer known for its ability to produce high-performance, mid-sized synchronous condensers for industrial and utility clients. Their core competency is the design of specialized windings and magnetic circuits that offer superior reactive power delivery. In 2026, Ideal Electric is benefiting from the push for domestic manufacturing in the US, securing contracts for localized microgrid projects. Their technical layout emphasizes ruggedized designs capable of operating in extreme temperatures. Strategic moves for Ideal Electric involve the development of 'Low-Noise' condensers for urban data center installations, where acoustic constraints are a major hurdle for planning permission. They remain a preferred partner for US municipal utilities.

Power Systems & Controls

Power Systems & Controls (PS&C) specializes in high-stakes power quality solutions, providing synchronous condensers for mission-critical applications such as satellite communications and government data centers. Their core competency is the absolute reliability and 'Clean Power' output of their machines, which effectively isolate sensitive equipment from grid disturbances. In 2026, PS&C is expanding its presence in the global defense and intelligence sectors, where SynCons are used to protect high-density compute clusters. Their technical configuration includes proprietary voltage regulation and filtering modules. Strategic dynamics involve the expansion of their global service network to support sensitive government installations in remote locations

worldwide.

Electromechanical Engineering Associates

Electromechanical Engineering Associates (EEA) acts as a high-tier engineering consultant and specialized equipment provider for the North American utility sector. Their core competency is the technical assessment and project management of complex grid-stabilization initiatives. In 2026, EEA is increasingly providing specialized SynCon modules that are optimized for 'Low-Inertia Grids,' helping utilities transition away from fossil fuels without risking blackouts. Their technical layout involves the use of advanced simulation software to predict the impact of SynCons on grid frequency. Strategic moves for EEA include a focus on the 'Utility-Private Partnership' model, helping public entities structure contracts with private infrastructure funds for grid stability assets.

Anhui Zhongdian Electric

Anhui Zhongdian Electric has emerged as a high-growth Chinese player in the synchronous condenser market, serving the domestic UHV and renewable energy sectors. Their technical layout is characterized by a high degree of vertical integration and massive manufacturing scale. In 2026, they are a primary beneficiary of China's 'Big Fund Phase III' and other industrial policies aimed at localized grid technology. Their core competency is the production of high-capacity SynCons that meet the stringent requirements of State Grid and China Southern Power Grid. Strategic dynamics for Anhui Zhongdian involve the expansion of their export business, specifically targeting the Belt and Road Initiative regions where they provide standardized and reliable grid components for new industrial parks.

Shanghai Electric

Shanghai Electric is a global powerhouse in energy equipment, possessing a massive footprint in both traditional and renewable power generation. Their synchronous condenser division is at the forefront of the Chinese industrial push for grid modernization. In 2026, Shanghai Electric is focusing on 'Mega-SynCons' for use in large-scale solar and wind bases in Northwest China. Their core competency is the massive R&D resources they can deploy to develop next-generation superconductors

and advanced cooling systems for SynCons. Strategic moves involve the creation of 'Energy Superclusters,' where SynCons are integrated with BESS and pumped-hydro storage to provide a total grid stability solution for multi-gigawatt renewable export corridors.

Ingeteam

Ingeteam is a European specialist in power electronics and electrical machines, providing a unique perspective to the synchronous condenser market. Their core competency lies in the control and excitation systems that manage the condenser's performance. In 2026, Ingeteam is focusing on 'Converter-Integrated SynCons,' where the machine works in perfect harmony with wind and solar inverters. Their technical layout emphasizes high-efficiency power converters and advanced control algorithms. Strategic dynamics for Ingeteam involve the expansion of their service business, providing upgrades and control-system retrofits for legacy SynCons across Europe and North America. They are a key partner for developers looking to maximize the reactive power contribution of their renewable assets.

Doosan Skoda Power

Doosan Skoda Power, headquartered in the Czech Republic, is a leader in the design and manufacture of steam turbines and generators, with a growing specialized focus on synchronous condensers. Their core competency is the high-precision machining of massive rotors and the engineering of efficient cooling systems. In 2026, they are a major provider for the European 'Pathfinder' grid stability projects, leveraging their centuries of engineering heritage to provide ultra-reliable SynCon units. Their technical layout involves advanced metallurgical testing and high-speed balancing rigs. Strategic moves for Doosan Skoda Power involve the expansion of their 'Retrofit and Repurpose' programs, helping European utilities transition their coal-fired assets into clean grid stabilizers.

Hangzhou Jingcheng

Hangzhou Jingcheng is a specialized Chinese manufacturer of high-voltage motors and synchronous condensers, with a strong focus on the industrial and municipal sectors. Their products are characterized by a high reliability-to-cost ratio, making them popular

in emerging markets. In 2026, Hangzhou Jingcheng is expanding its footprint in Southeast Asia and Africa, providing standardized SynCon units for new industrial zones. Their core competency is the manufacturing of high-quality stator coils and specialized insulation systems for high-voltage applications. Strategic dynamics for Hangzhou Jingcheng involve a move toward 'Intelligent Manufacturing,' utilizing robotic winding and automated inspection to improve the consistency and performance of their machines.

Strategic Market Opportunities

The market for synchronous condensers in 2026 is presented with high-value opportunities as the global energy landscape transitions toward grid independence and decentralized resilience.

Inertia-as-a-Service and Private Infrastructure Funds: The acquisition of the Wexford project by Quinbrook Infrastructure Partners signals a shift toward the financialization of grid stability. There is a significant opportunity for manufacturers to partner with investment firms to offer stability hubs—large-scale, merchant-based synchronous condenser installations that sell frequency response and reactive power services to multiple grid operators. This model moves the capital expenditure burden from the utility to the private market, accelerating the deployment of stabilization technology while providing a steady yield for infrastructure investors.

Microgrid Resiliency for Critical Infrastructure: As evidenced by the ABB-VoltaGrid deal, data centers and hospitals are becoming the primary buyers of private synchronous condensers. There is a massive opportunity in providing mini-SynCons for high-stakes industrial facilities that cannot afford even a micro-second of power quality degradation. These units will increasingly be integrated with AI-driven energy management systems to optimize their operation alongside onsite solar and battery storage. This creates a new 'behind-the-meter' market that bypasses traditional utility procurement cycles.

Repurposing Legacy Power Plant Assets: Thousands of thermal power plants globally are reaching the end of their operational lives. There is a high-value opportunity in generator conversion, where the existing rotating mass, cooling systems, and grid connections of a coal plant are repurposed into a synchronous condenser facility. This reduces civil engineering costs, preserves the existing skilled workforce, and accelerates the energy transition by utilizing

existing brownfield sites. This model is currently gaining massive traction in Europe and the Midwestern United States.

Market Challenges

Despite the robust growth profile, several technical and macroeconomic hurdles persist in the 2026-2031 period.

High Interest Rates and Capital Sensitivity: The persistent high-interest-rate environment in 2026 is forcing utilities and private developers to be extremely selective in their capital expenditures. Synchronous condensers are long-term assets with a 30-to-40-year lifespan, making their initial ROI less attractive than short-term battery projects. Manufacturers must demonstrate the total value of stability to overcome this initial financial resistance, emphasizing that BESS alone cannot provide the mechanical inertia required for deep grid resilience against sudden frequency drops.

Talent Shortage in Electromechanical Engineering: The rapid growth of the market has exposed a significant skills gap. The global shortage of specialized electromechanical engineers who understand the nuances of massive rotating machinery is a bottleneck for project execution. This has driven up labor costs and is forcing companies to invest heavily in internal training and digital service assistants to assist technicians in the field. The loss of legacy knowledge as the 'thermal era' workforce retires is a primary concern for major OEMs like Siemens and GE.

Supply Chain Constraints for Large Forgings: The manufacture of large rotors and flywheels requires specialized forging and heat-treatment facilities, which are in short supply globally. Lead times for these critical components can extend beyond 18 to 24 months, creating a risk of project delays in high-priority grid stabilization programs. Manufacturers are increasingly looking for ways to regionalize their supply chains to avoid the logistical risks associated with trans-continental shipping of 100-ton rotors.

Macroeconomic and Geopolitical Influence Analysis

The global synchronous condenser market is a direct reflection of the broader struggle

for energy sovereignty and the regionalization of the industrial supply chain.

Geopolitical Reshoring and Energy Independence: In 2026, grid stability is viewed as a national security priority. European nations are aggressively localizing their grid infrastructure to reduce reliance on imported energy and the associated transmission risks. This geopolitical pressure is driving the regionalization of manufacturing, with domestic players like Siemens and Ansaldo receiving significant support through national energy security initiatives. The push for localized production ensures that critical grid components are not subject to the volatility of global trade tensions or the risk of supply chain weaponization.

The Ireland Benchmark and Global Regulatory Spillover: The success of the Irish grid stability program—evidenced by the multi-plant contracts awarded to Elecnor and Statkraft—is being watched closely by regulators worldwide. As other nations reach similar levels of wind and solar penetration (above 50 percent), the Irish model of mandatory inertia and reactive power markets is likely to be exported. This will create a global regulatory environment that mandates the use of synchronous condensers or equivalent mechanical stabilizers, fundamentally altering the economics of the renewable power market and creating a permanent floor for SynCon demand.

Infrastructure Funds and the Financialization of Inertia: The entry of specialist investment managers like Quinbrook into the Wexford project signifies a new macroeconomic era for energy infrastructure. Inertia is being treated as a tradable commodity with a predictable revenue stream. This financialization is attracting billions in private capital, which is needed to offset the debt-burdened balance sheets of traditional utilities. The success of these merchant-inertia projects will define the speed of the global energy transition and determine which manufacturers can scale up to meet the needs of institutional investors.

Energy Costs and Operational Efficiency: High energy costs in traditional manufacturing hubs (North Asia and Europe) are forcing synchronous condenser manufacturers to focus on extreme efficiency. Machines that offer lower parasitic load—the energy needed to keep the machine rotating—are gaining a significant competitive advantage. In 2026, the operational carbon footprint of a grid-stabilizing asset is a critical factor in the procurement process, particularly for public utilities in the EU and North America. This is driving a move toward high-efficiency vacuum-containment for flywheels and the adoption

of low-loss excitation systems to ensure that the 'cure' for grid instability does not become a significant energy drain in its own right.

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