

# ENODA PRIME EXCHANGER SOUTH AFRICA

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What is Enoda Prime exchanger? The Enoda PRIME(R) Exchanger: a bidirectional, active power flow device, which delivers a clean electrical signal by dynamically modulating voltage, frequency, phase, power factor and noise removal. Eno



How are Enoda Prime (R) exchanger fleets co-ordinated? Enoda PRIME (R) Exchanger fleets are co-ordinated through Enoda ENSEMBLE???- our transactive software platform for Enoda PRIME (R) and other smart technologies. Enoda ENSEMBLE??? can create an intelligent energy system which balances power across the grid, co-ordinating variable demand and supply where needed, and providing low-carbon balancing services.



What is Enoda Prime(R) Technology? Enoda PRIME(R) technology is unique, enabling bidirectional energy flow, delivering a huge leap in grid capacity, resilience, and stability. ENODA innovates in close relationship to the fundamental principles of physics, delivering a quantum shift in the control of electromagnetic force in energy systems.



What does Enoda do? ENODA combines breakthrough design solutions in electromagnetics, power electronics and predictive control to deliver stable target signals, materially reduce network losses and carbon emissions, as well as providing carbon free essential balancing services.



Who owns Enoda? Enoda is led by Lindsay Whitelaw (Executive Chair) and its founders: Andrew Scobie (Chief Technology and Product Officer), Jennifer Urquhart (Chief Operating Officer), Jacqui Porch (Chief Markets and Communications Officer) and Paul Domjan (Chief Policy and Global Affairs Officer).

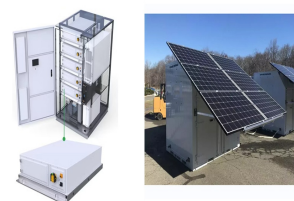
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How can Enoda help power grid operators? ENODA's integrated hardware and software solutions for electricity grid operators can deliver network stability and resilience, while increasing capacity for greater integration of renewable generation such as wind and solar.



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Enoda PRIME is a groundbreaking exchanger that bridges analog and digital technologies. It ensures optimal grid performance with voltage regulation, phase balancing, and more. Discover how Enoda



ENODA was founded to revolutionise electricity distribution technology, with the ultimate goal of enabling communities to prosper on 100% renewable energy. ENODA is delivering technology for at scale decarbonisation of industrial microgrids and combined heat and power, crushing the cost of green hydrogen while maximising the contribution of renewables.



Enoda PRIME(R) Exchangers can enable the system to operate with very low levels of inertia. Prime Exchangers can correct the AC waveform in real time, enabling them to restore frequency almost instantaneously, closing the system energy gap of any frequency excursion even when ROCOF is high. Prime Exchangers can also correct noise and harmonics.

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Enoda PRIME(R) Exchanger Enoda ENSEMBLE??? Folder: INNOVATION. Back. HERA Enoda Hydrogen Regenerator Architecture Africa, and Eurasia. He was the most senior Defence Department energy security official based in Europe and represented the US both at NATO, and with senior government and corporate stakeholders in the Europe and the US.



The Enoda PRIME(R) exchanger bridges analogue and digital technologies to provide real time electricity signal correction, delivering on-target frequency and voltage, increasing grid capacity, resilience, and stability in low voltage distribution networks. The exchanger ensures system stability by maintaining system frequency, locally presenting



At the heart of the Enoda PRIME(R) Exchanger is our unique three-phase torus electromagnetic subsystem. It is related to machines and transformers as well as many electromagnetic devices, but it is none of these.



ENODA is a founder-led energy technology company, which was established in 2021, and is headquartered in Edinburgh, UK. At ENODA we embrace our vision of sustainable prosperity for everyone. Built on the principle of win-win outcomes, we act with integrity and understand individual accountability is critical to achieving our goals.

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Enoda PRIME(R) Exchanger Enoda ENSEMBLE??? Folder: INNOVATION. Back. HERA Enoda Hydrogen Regenerator Architecture Folder: CONNECT. Back. Contact Us Our Values Extraordinary innovation. We are inspired to create groundbreaking technology that has a significant impact on society.



ENODA armonising Energy Enoda PRIME(R) Exchanger Product Sheet 2 Enoda is an innovator in energy platforms, developing advanced technologies for electricity grid operators and developers. A REVOLUTION IN POWER FLOW The Enoda PRIME(R) exchanger is an active power flow device that delivers a clean electrical signal by dynamically controlling voltage



Enoda PRIME(R) Exchanger Enoda ENSEMBLE??? INNOVATION HERA Enoda Hydrogen Regenerator Architecture CONNECT Contact Us The ANC's historic defeat in South Africa, is in part, due to the socio-economic impact of having a dangerously unstable energy system. The rest of the world should take note.



Lindsay joined ENODA as Chairman in 2021, soon after the company was first established. After serving as its Non-Executive Chair for two years, Lindsay was appointed Executive Chair of ENODA in June 2023. Lindsay is a founder of Artemis Investment Management LLP which now manages over ?29bn of client funds.



ENODA was established in Edinburgh, Scotland in 2021 The Enoda PRIME(R) Exchanger can be placed into the distribution grids of utilities, improving their performance and enabling them to become the primary ???

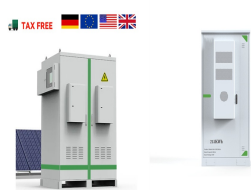
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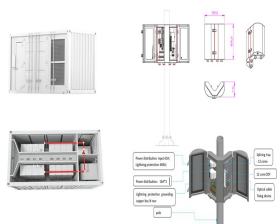
HERA(R) is a modular architecture of dynamically coupled hardware, control, and ENODA ENSEMBLE??? software subsystems. HERA(R) is the optimal delivery of low cost, zero carbon energy as power, thermal and hydrogen taking the power flow optimisation and balancing capabilities of Enoda PRIME(R) to difficult to decarbonise CHP use cases.



Dynamic power flow technology for a balanced and decarbonised grid. Chief Technology & Product Officer, Andrew Scobie gives insight to the inner-workings of the Enoda PRIME Exchanger, in his latest article with Smart Energy International.



#ENODA& #39;s Chief Technology & Product Officer, Andrew John Scobie shares exclusive insight on the core functionalities of the Enoda PRIME(R) Exchanger, in his???



Written evidence submitted by Enoda (ECO0020) Introduction to Enoda Enoda are committed to solving the big problems of the energy system, seeking to resolve the energy trilemma through our platform of advanced technologies. Our ENSEMBL????,? platform and PRIME(R) technology will establish Enoda as the next-generation energy technology market leader.



Enoda launched its PRIME??? exchanger active power correction hardware for distribution grids, and its fleet coordinating ENSEMBLE??? platform. Both Enoda PRIME??? and ENSEMBLE??? form part of an integrated solution to increase grid capacity for volatile renewable generation, and provide system balancing from within the grid, at the lowest social marginal cost.

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Prime Exchanger A patent-pending, drop-in replacement for multiple existing network components, including transformers. Its unique three-phase core design and advanced control system dynamically stabilises grid power flow, regulating frequency, voltage and power factor, while balancing loads and phases as well as removing the harmonics of generation and ???



The Enoda PRIME??? ??,? exchanger bridges analog ue and digital technologies to provide real time electricity signal correction, delivering on-target frequency and voltage, increasing grid capacity, resilience, and stability in low voltage distributi on networks.



The Enoda PRIME(R) Exchanger: a bidirectional, active power flow device, which delivers a clean electrical signal by dynamically modulating voltage, frequency, phase, power factor and noise removal. Enoda PRIME(R) Exchangers can increase renewables penetration supported by the grid from ~30% to +80%.



Enoda PRIME(R) Exchanger and Enoda ENSEMBLE??? form part of an integrated solution to increase grid capacity for volatile renewable generation, and provide system balancing from within the grid, at the lowest social marginal cost. Watch now for ???



ENODA's Prime exchanger technology can be deployed on the distribution network in place of a bundle of power flow equipment, including the standard transformer, and provides functionality far beyond that of voltage regulation. By actively modulating the AC signal, Enoda Prime corrects voltage, power factor, phase imbalance, and removes