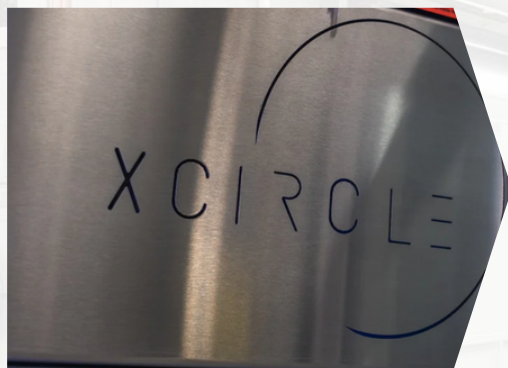# RHINE X
XCIRCLE

PREFABRICATED DATA CENTERS, ENGINEERED FOR SCALABILITY, EFFICIENCY, AND SUSTAINABILITY

www.rhineXcircle.com

COMPANY OVERVIEW

Rhine XCircle, represents a transformative joint venture between Group Rhine, a leading energy solutions provider in India, and XCircle, an Australian pioneer in modular infrastructure. We provide precision-engineered modular critical infrastructure solutions that process data exactly where decisions are made, bringing computing power closer to where it's needed.

This collaboration leverages the complementary strengths of both entities to create innovative solutions tailored to the evolving needs of the digital economy. Our primary focus is on delivering modular and prefabricated edge data centers, engineered for scalability, efficiency, and sustainability.

Rhine XCircle integrates renewable energy solutions, AI-driven cooling technologies, and circular economy practices to reduce carbon footprints and align with global sustainability goals such as the UN SDGs and India's "Green Energy Corridor" initiatives.

THE RHINE XCIRCLE ADVANTAGE

SMART DESIGN, FASTER DEPLOYMENT

Precision Engineering
Every component is meticulously assembled and tested in controlled factory conditions, ensuring the highest quality standards while dramatically reducing on-site work.

Built for Growth
Start with what you need today and scale seamlessly as your demands grow. Our modular design adapts to your evolving requirements without disrupting existing operations.

Seamless Performance
Process data where it's generated. Enable real-time decisions. Transform latency from seconds to milliseconds. Our strategic deployments put computing power exactly where your business needs it.

Energy Efficiency
Advanced cooling systems, renewable energy solutions and smart power management reduce operational costs while supporting your sustainability goals. Every component is optimized for maximum energy efficiency.

Accelerated Deployment
Prefabricated units can be installed and fully operational within weeks, significantly reducing traditional deployment timelines.

Customisation for Diverse Industries:
Solutions tailored to the unique needs of industries such as telecom, healthcare, education, and smart cities.

PRODUCT PORTFOLIO

SUSTAINABLE SOLUTIONS, ENDLESS IMPACT

Prefabricated Data Centers

Designed for large-scale deployments, our prefabricated data centers offer multi-story solutions. They are ideal for colocation and enterprise environments, providing a complete power and cooling infrastructure for seamless operations.

Modular Data Centers

Our engineered-to-order containerized modular data centers enable rapid deployment with flexible configuration options. They are perfect for distributed computing needs, ensuring efficiency and adaptability.

Micro Data Centers

Compact and powerful, the Mini Node Cabinet is a self-contained micro data center with an IP65-rated enclosure for all environments. It features integrated cooling, uninterrupted power (AC & DC with backup), and 360° access for easy maintenance. With an 82% usable space ratio, and a small footprint, it's highly portable while ensuring secure operations for retail, office, and remote sites.

PRODUCT PORTFOLIO

AI-Optimized Infrastructure

It includes up to 2MW size self-contained solutions with support for high-density computing starting at 40kW per rack. It features advanced cooling solutions for AI workloads, specialized power distribution for GPU clusters, and truck-to-vehicle solutions for mobile AI computing.

Cooling Distribution Units

They are modular skid-based solutions available in open or closed loop configurations. They support vendor-neutral product design, with prefabrication of all piping, valving, and pumps. CDUs offer scalable capacity and output, integrated monitoring and control systems, and full witnessed Factory Acceptance Testing.

Power Trane Units

They feature vendor-neutral product design and selection, along with fire-rating protection options. Offering self-contained solutions incorporating UPS, battery, cooling, and power distribution, with scalable capacity and output. Integrated monitoring and control systems, along with full witnessed Factory Acceptance Testing.

SECTORS WE SERVE

Our offerings stand apart due to their purpose-fit, sustainability, and rapid scalability, making them invaluable across multiple industries.

Telecom
Our modular solutions reduce network latency by 65% globally. International telecom providers trust our infrastructure to process millions of customer transactions daily with consistent sub-millisecond latency.

Manufacturing
70% faster production data processing helps manufacturers spot quality issues instantly rather than finding them downstream. In modern manufacturing, this speed translates to savings.

BFSI
Our critical infrastructure solutions enable financial institutions worldwide to process transactions and detect fraud in real-time, supporting operations across multiple continents..

Smart Cities
Our solutions improve urban service response times by 40%. They deliver the performance needed for efficient and responsive smart city operations that includes IoT integration like surveillance systems, traffic management or public utilities.

Healthcare
Supporting patient care with real-time data analytics and enhanced connectivity. Our data centers help healthcare providers process critical patient information in milliseconds, saving lives and improving efficiency.

Education
Enhancing digital classrooms by providing the infrastructure for robust online education platforms and real-time content delivery.

Media & Entertainment
Seamlessly delivering high-bandwidth content to millions of users. Our solutions power the next generation of streaming and interactive experiences.

IT/ITeS

Edge computing enables seamless service delivery and enhanced performance across IT and ITeS operations. Our edge data centers help technology companies process critical workloads with consistent low latency, transforming service delivery capabilities.

Data Center Companies

Transform hyperscale and colocation data center operations with advanced modular infrastructure. Our prefabricated solutions are designed for efficiency, scalability, and seamless integration with modern IT environments.

OUR GLOBAL PROJECTS

CFNR Perth Project

XCircle was contracted to design, engineer and manufacture ten (10) turn-key communications modules housing critical power and IT equipment to support the modular accommodation blocks for the Western Australian government's Center for National Resilience (CFNR) project in Bullsbrook.

SKA SUT3 Testbed Room

Square Kilometre Array Observatory (SKAO) Australia, had a requirement for a modular data centre to test and configure their IT and radio equipment for deployment to their multiple Remote Processing Facilities (RPF) at the main site in Murchison, Western Australia. XCircle was engaged to design, construct, test, deliver and install a 40kW, 7-rack modular data center which was completed 8 weeks from order.

BHP West Musgrave Data Centers

XCircle secured a contract to design, supply, and install two 40kW, 6-rack modular data centres for BHP West Musgrave. This followed a competitive tender process starting in June 2022. XCircle stood out with its innovative approach, advanced technology, and commitment to on-time, on-budget delivery.

NEWest Alliance

XCircle was engaged by NEWest Alliance to construct five Signalling Equipment Rooms (SER) for the Western Australian Goverment Public Transport Authority (PTA) on the Yonchep Rail Extension (YRE) and Thornlie Cockburn Link (TCL) Project. XCircle delivered the project in 3 months, ncluding installation and testing at their respective final sites.

CUSTOMISED DEPLOYMENT FOR VARIED NEEDS

Recognising the diverse requirements of its target markets, we offer modular and prefabricated solutions designed for specific deployment scenarios.

Rural Deployments
Energy-efficient, off-grid-capable units tailored for areas with unreliable power supply, ensuring seamless operations in challenging environments.

Urban Deployments
Compact, high-density data centers optimized for space-constrained urban environments, supporting advanced digital applications.

Mission-Critical Deployments
High-reliability prefabricated data centers designed for sectors such as healthcare and telecom, where uptime and performance are non-negotiable.

Scalable Data centers
Cater to varied capacities, from single-unit setups to large multi-stacked configurations, supporting a scale-as-you-grow model. These designs allow businesses to expand seamlessly while meeting evolving needs.

This flexibility underscores Rhine XCircle's ability to deliver reliable, adaptable solutions for diverse deployment scenarios, whether small-scale micro data centers or larger installations for enterprise and industrial applications.

TECHNOLOGICAL ADVANCEMENTS

Rhine XCircle's data centers integrate cutting-edge AI and IoT capabilities, enabling real-time monitoring and predictive maintenance. These solutions are engineered to provide a future-ready infrastructure, with advanced features such as:

SCADA-Compatible Systems: Seamless integration with industrial control systems for efficient monitoring

Environmental Sensors: Monitoring temperature, humidity, and other critical metrics to optimise performance

Advanced Fire Suppression Systems: Ensuring operational safety and equipment protection

The Micro Data Center series is a testament to innovation, offering features like biometric access controls, intrusion detection, and wireless GSM or satellite communications for remote monitoring, making it an ideal solution for mission-critical and remote deployments.

Rhine XCircle is committed to continuous R&D investments to stay ahead in the modular data center space. By integrating AI-driven resource optimisation, IoT-enabled infrastructure, and renewable energy advancements, Rhine XCircle ensures its solutions remain competitive, scalable, and future-ready.

STRATEGIC GLOBAL ALLIANCES

Rhine XCircle collaborates with reliable OEMs and industry-leading partners to deliver state-of-the-art infrastructure solutions. These partnerships enhance operational efficiency and ensure that Rhine XCircle's modular data centers incorporate advanced features such as:

Energy Management Systems: Delivering uninterrupted power and optimising resource utilisation

Thermal Management Solutions: Tailored cooling technologies to suit India's diverse climatic conditions

Smart Monitoring Capabilities: IoT-enabled tools for real-time oversight and predictive maintenance

WHERE PRECISION MEETS INNOVATION

RHINE X
X CIRCLE

anjani.kumar@rhinexcircle.com

+91 96814 70002

www.rhineXcircle.com