



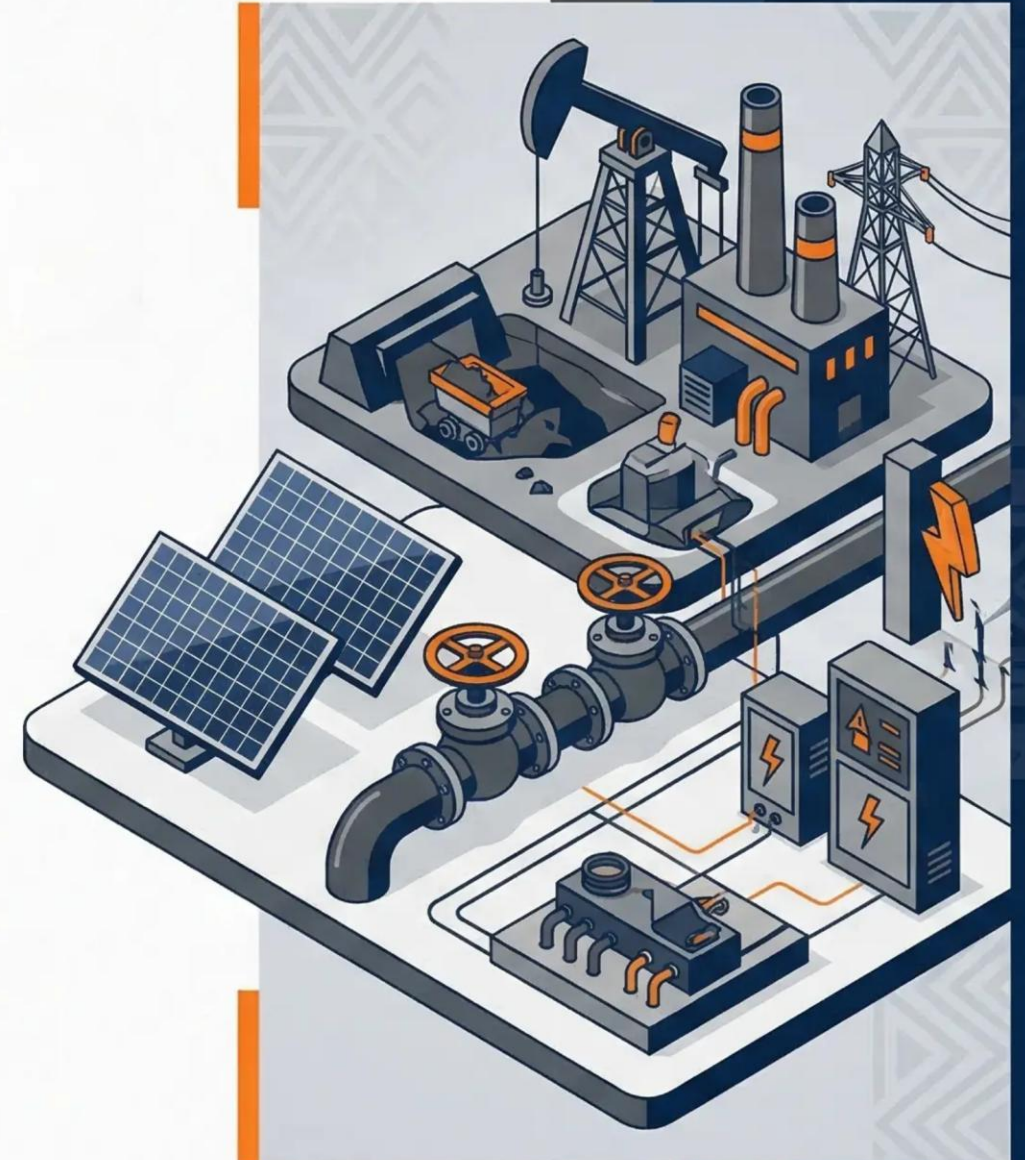
VELL NOVA HOLDINGS (PTY) LTD

Engineering | Industrial Supply | Energy Infrastructure

Empowering Africa with Engineering,
Innovation & Sustainable Impact

Mining • Industrial • Energy • Infrastructure

Company Profile 2026



About the Company



VELL Nova Holdings (Pty) Ltd is a South African engineering, industrial supply, and energy infrastructure focused on delivering innovative technical solutions across the mining, industrial, and energy sectors.

Company Specializations:

- Industrial equipment supply and mechanical components
- Renewable and hybrid energy systems integration
- Electrical infrastructure and advanced lighting solutions
- Comprehensive engineering support and project coordination

Operational Philosophy:

By integrating engineering excellence with strategic industry partnerships, VELL Nova delivers reliable, safe, and cost-effective solutions tailored to the demanding environments of mining, industrial facilities, and infrastructure projects across Africa.

Our Core Values



Safety - Prioritizing worker and operational safety



Quality - International standards compliance



Innovation - Technological advancement leadership



Community Empowerment - Local skills development

Vision & Mission



Vision

To become one of Africa's leading providers of engineering, industrial supply, and sustainable energy solutions, supporting mining and infrastructure development across the continent.



Mission

To deliver high-quality engineering and industrial solutions that:

- **Improve operational efficiency**
- **Support sustainable energy adoption**
- **Empower communities through innovation and training**



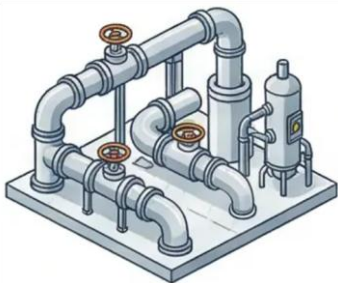
Core Business Divisions

Four Integrated Solutions for Complete Project Support



Industrial Equipment Supply

- Manual & automated valves
- Process control equipment
- Mechanical components
- Quality assurance systems



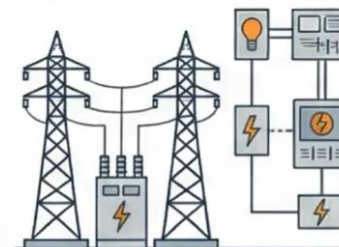
Renewable Energy & Electrification

- Solar PV systems
- Hybrid energy solutions
- Off-grid installations
- Mining electrification



Electrical & Industrial Systems

- LED lighting systems
- Electrical distribution
- Arc flash protection
- Schneider Electric integration



Training & Community Empowerment

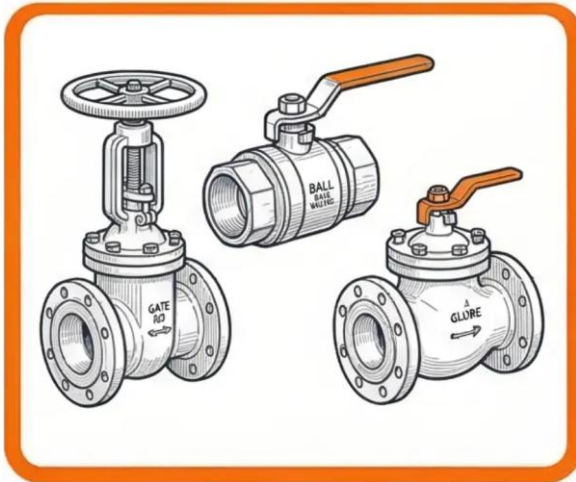
- Renewable energy training
- Youth development programs
- Women empowerment
- Community electrification



Industrial Equipment Supply

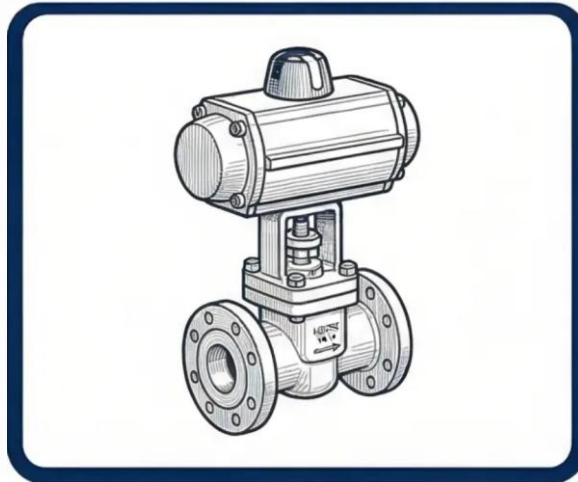
Specializing in high-performance manual and automated valves, process control equipment, and mechanical infrastructure designed for the harsh abrasive environments of the mining industry

Manual Valves



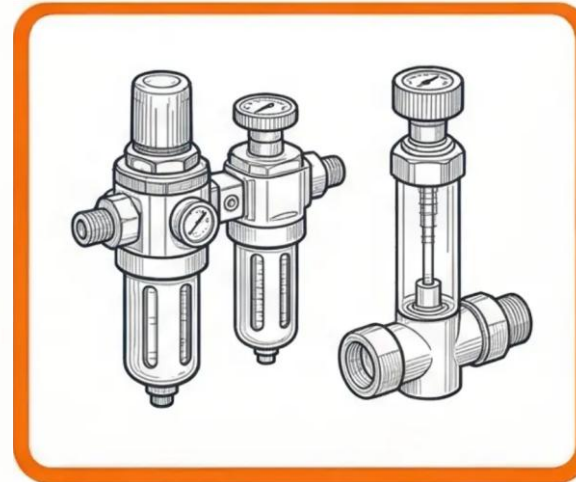
Gate, ball, globe, and check valves for precise flow control in high-pressure mining environments

Automated Valves



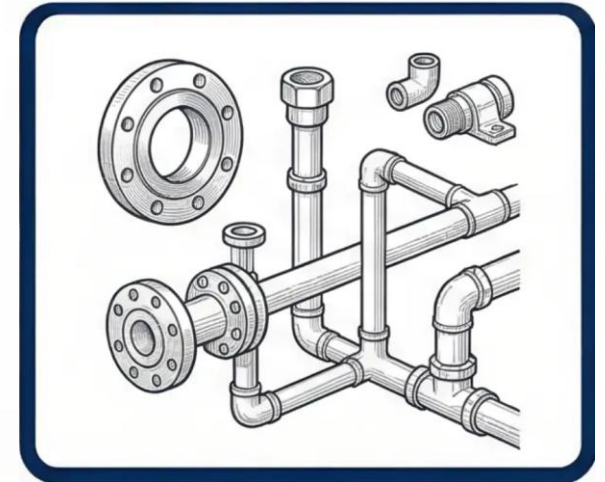
Electric, pneumatic, and hydraulic actuators for remote control in critical process systems

Process Control Equipment



Pressure regulators, flow meters, and instrumentation for real-time system monitoring

Mechanical Infrastructure



Flanges, fittings, and piping systems engineered for durability in corrosive conditions

Mining Applications

- Slurry handling systems
- High-pressure operations
- Corrosion-resistant solutions
- Remote monitoring integration

Renewable Energy & Electrification Solutions



Delivering utility-scale solar PV, hybrid energy systems, and off-grid solutions that reduce carbon emissions and operational costs for heavy industrial operations



Solar PV Systems

- Utility-scale installations from 1MW to 10MW+
- High-efficiency monocrystalline panels optimized for African conditions
- Grid-tied and standalone configurations

Hybrid Energy Integration

- Solar-diesel-grid hybrid systems for continuous power
- Battery energy storage for load balancing
- Intelligent control systems for automatic switching

Off-Grid Solutions

- Mini-grids for remote mining operations
- Containerized power units for rapid deployment
- Complete electrification packages

1MW Anglo American Project

Successfully delivered industrial solar system generating 1,600 MWh annually, reducing CO₂ emissions by 1,200 tonnes per year

Electrical & Industrial Systems

Advanced industrial LED lighting and electrical distribution solutions, integrating Schneider Electric components and arc flash protection to enhance site safety and reliability



LED Lighting Systems

Industrial LED Lighting

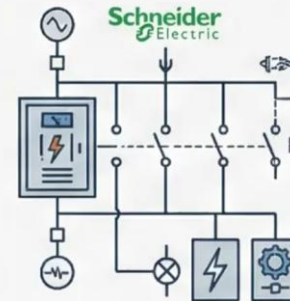
- High-bay explosion-proof fixtures
- Smart lighting controls
- 60% energy reduction
- Enhanced workplace safety



Electrical Distribution

Power Distribution Systems

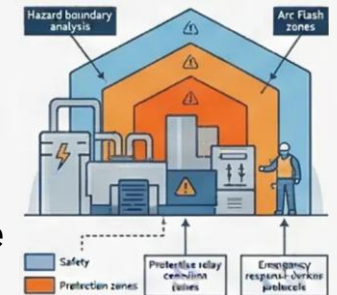
- Switchgear and motor control centers
- Schneider Electric integration
- Real-time monitoring capabilities
- Automated control systems



Safety & Protection

Arc Flash Protection

- Hazard boundary analysis
- Safety compliance systems
- Protective relay coordination
- Emergency response protocols

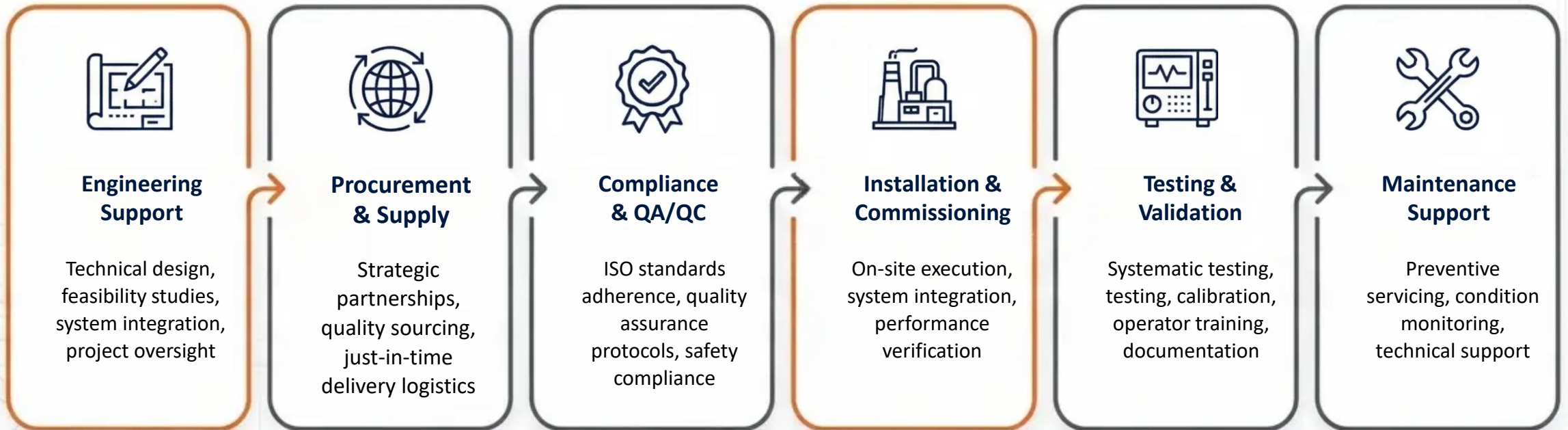


Up to 60% energy savings
with LED systems

Key Capabilities



End-to-End Project Lifecycle Support

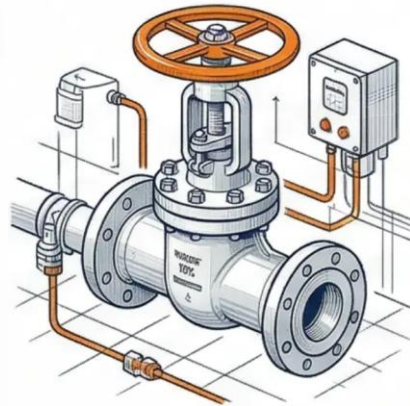


Project Experience: Anglo American Valve Supply

Strategic Partnership with Global Mining Leader

120+

**High-Performance
Industrial Valves
Delivered**

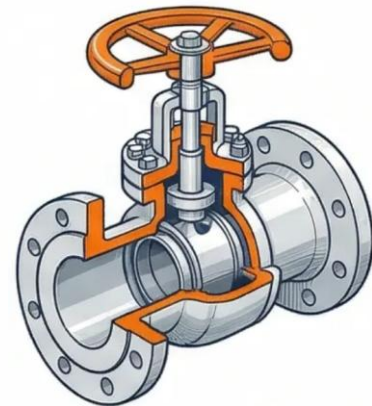
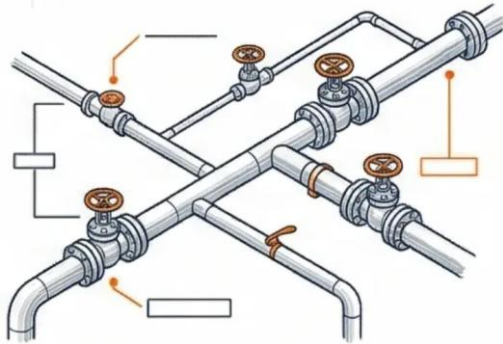


Project Scope:

- Supply of gate, ball, and globe valves for high-pressure mining operations
- Full engineering support including technical specifications and material compliance
- End-to-end equipment coordination and installation supervision
- ASTM/ASME standards compliance throughout

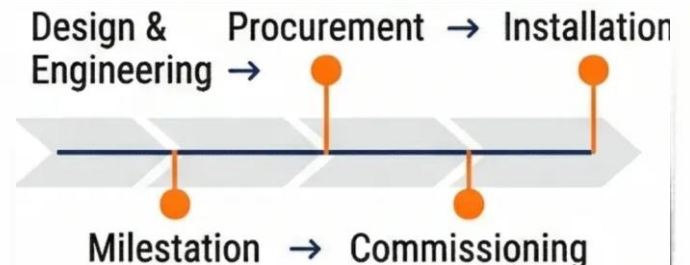
Key Results:

- Enhanced operational reliability at processing plant
- 30% reduction in unplanned downtime within six months
- Improved system performance in demanding mining environments
- Successful integration with existing process systems



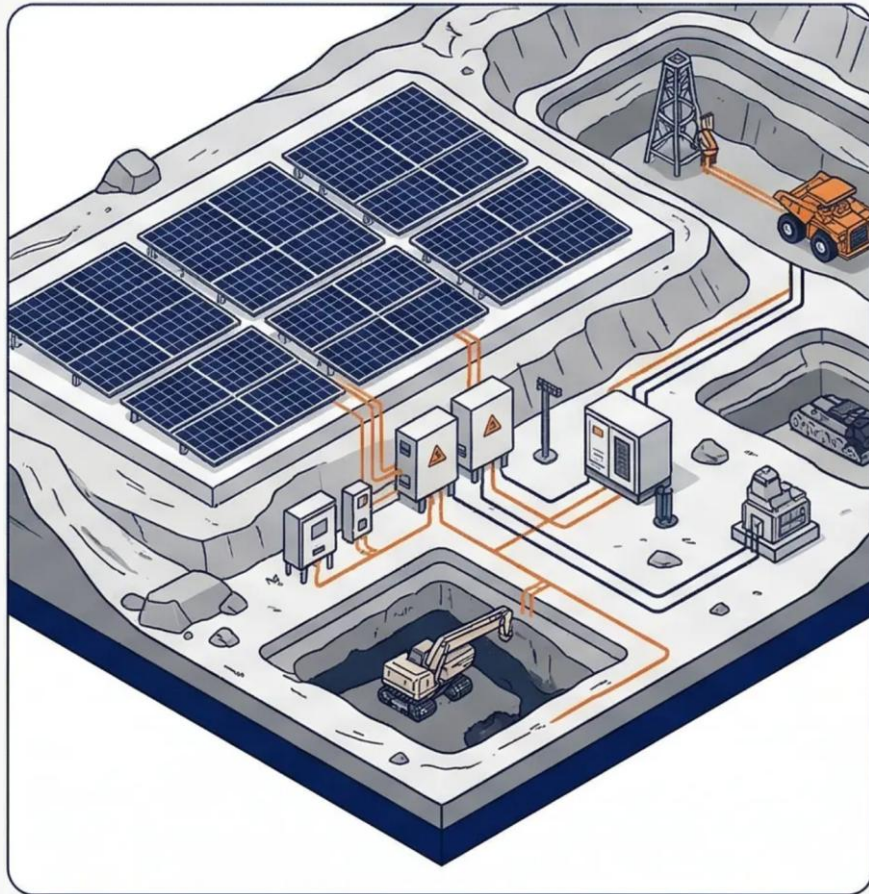
Technical Excellence:

- High-pressure, high-temperature valve specifications
- Corrosion-resistant materials for harsh mining conditions
- Precision engineering for slurry handling applications
- Advanced quality assurance protocols



Project Experience: 1MW Industrial Solar Project

Large-Scale Solar Implementation for Mining Operations



VELL Nova Holdings successfully delivered a comprehensive 1MW industrial solar photovoltaic system for Anglo American's mining operations. This flagship renewable energy project demonstrates our capability to integrate sustainable power solutions into demanding industrial environments.

Key Achievements:

- Seamless integration with existing mining infrastructure
- Hybrid system design ensuring continuous power supply
- Significant reduction in operational energy costs
- Enhanced energy security for critical mining operations

Client



Anglo American
Partnership

Key Metrics Callout

1MW

Installed Capacity

1,600 Mwh

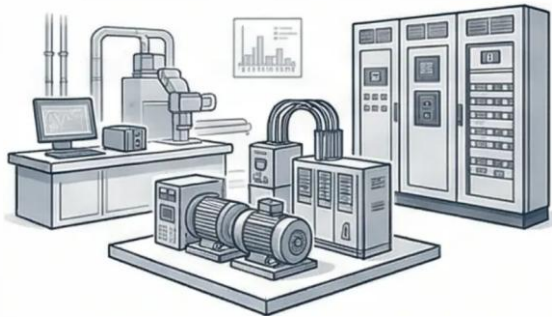
Annual Generation

1,200

Tonnes CO₂
Avoided Yearly

Strategic Partnerships

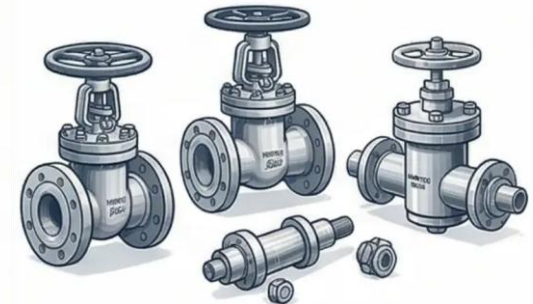
Collaborating with Global Technology Leaders



- Energy Management Solutions
- Industrial Automation Systems
- EcoStruxure™ Platform Integration
- Motor Control Centers



- Power System Protection
- Advanced Electrical Relays
- Grid Stability Solutions
- Safety Compliance Systems



- Premium Industrial Valves
- Corrosion-Resistant Equipment
- High-Pressure Components
- Quality Assurance Systems

**Ensuring Access to Industry-Leading Standards
and High-Quality Components**





Leadership Profile



Edwinah Loate

Founder & CEO

Experience Highlights

- Over a decade of experience in renewable energy and industrial systems
- Led strategic growth from company inception to recognized industry provider
- Expertise spanning project management, technical consulting, and business development



Nominee: Best Community Engagement Award – Africa
Renewable Energy Awards 2024

“True innovation lies not just in technology, but in how we empower people and communities to thrive. At VELL Nova, we engineer solutions that are as sustainable as they are powerful.”

— Edwinah Loate, Founder & CEO

Sustainability & Community Empowerment

GreenEmpower Africa NPC



Renewable Energy Training Programs

- Comprehensive solar PV system training for youth and women
- Partnership with accredited training institutions
- Focus on historically disadvantaged communities



Key Impact Statistics

- 112 participants since in 2022
- 68% women participants
- 92% employment success rate within 6 months

Challenges we Address

- Energy Access Gap
- Gender Imbalance
- Skills to Income Gap



GREEN EMPOWERED
AFRICA NPC



Future Growth Strategy

Strategic Roadmap for Continental Expansion & Innovation Leadership



Market Expansion

Continental Reach

- Zambia & Botswana market entry
- Regional EPC partnerships
- Local supply hub development



Technology Investment

Smart Innovation

- IoT-enabled valve systems
- AI-driven energy management
- Modular solar solutions



Community Impact

Social Empowerment

- 500 trainees annually by 2029
- 10 new rural communities
- Just Energy Transition support



2026

2027

2028


2029

2030


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**Ready to partner
with Africa's leading
engineering and
energy solutions
provider.**