



Xnovest Africa

Energy | Excellence | Innovation | Investments

www.xnovestafrica.com



- **CONSULTING ENGINEERS**

Doing the necessary research to provide you with a hands-on solution. Right the first time.

- **ENERGY & WATER MANAGEMENT**

Experienced engineers will assist you with any projects: Audit to implementation.

- **FIRE SERVICES**

Save lives and protect assets – ensure your fire safety is complying to legal regulations and standards

- **BUILDING ASSESSMENTS**

Condition assessments and building audits to help you manage your valuable assets.

- **ELECTRICAL ENGINEERING**

Design to implementation and project management. We are equipped and experienced.

- **ISO MADE EASY**

Developing, auditing and implementing. Making ISO an asset to your company.

Taking pride in what we do.
Local. Experienced. Diverse.

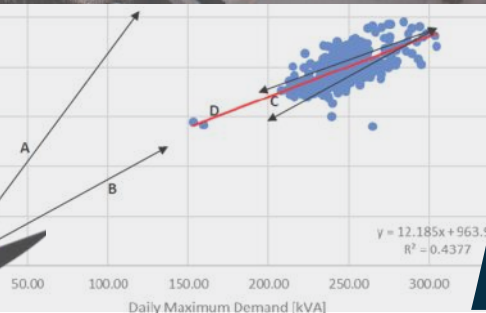
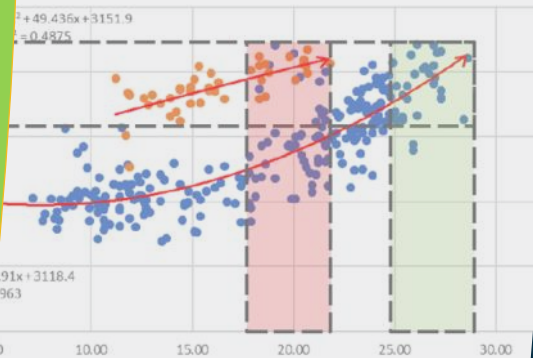
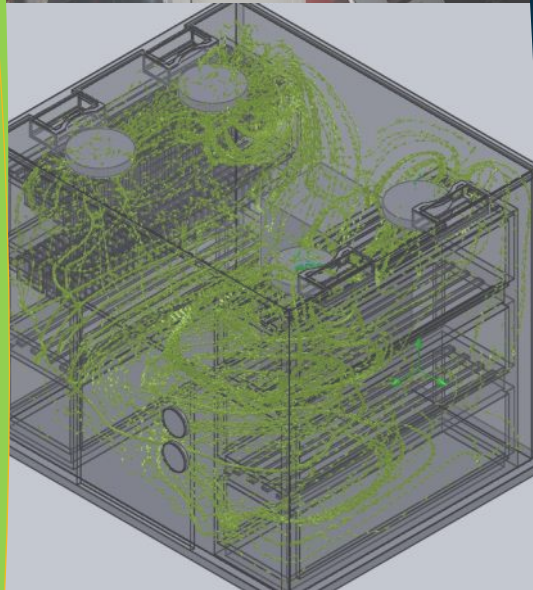
Xnovest Africa consulting engineers have been involved in various sectors gaining experience in a wide variety of projects, technologies, operations, clients and solutions. Our motto: being proud of our work. We will provide the best answer to any project while delivering an extremely high quality of work. As our name suggest, we strive towards **eXcellence**, **inNOvation** and **inVESTments**. We strive to build relationships with our clients to establish long term sustainable investments and build capacity and empower our clients.

Xnovest Africa is a South African based company specialising in various sectors, including, but not limited to: Energy, Electrical, Mechanical, Water, Fire, ISO, Building Assessments and Process / Plant Engineering – all which are important to any sustainable business. We are breaking away from the traditional ways of managing and implementing projects and seeking more innovative ways of making them work for you. We strive to assist clients with a holistic turn-key solution which is specific to your needs and circumstances.



energy

The capacity or power to do work, such as the capacity to move an object (of a given mass) by the application of force. **Energy** can exist in a variety of forms, such as electrical, mechanical, chemical, thermal, or nuclear, and can be transformed from one form to another.



CUSTOM SOLUTIONS

We provide custom solutions to fit each client's need. Due to the rising costs of energy and natural resources, energy should not be a grey area in any business, it is an asset and needs to be managed accordingly to improve business efficiency and profitability.



VARIOUS SECTORS

We are deeply involved in various sectors and technologies. Including, but not limited to: Mining, Industrial, commercial, residential and agricultural. Assisting clients with audits and assessments for load shifting, profile development, general efficiency, bill verification, baseline development and much more.



SERVICES FOR YOUR EVERY NEED

- ⇒ Energy audits & assessments
- ⇒ Renewable Energy and Design
- ⇒ Efficiency & Process Optimization
- ⇒ Measurement and Verification
- ⇒ Power Quality
- ⇒ Metering Solutions
- ⇒ Thermal Assessments
- ⇒ Condition Assessments
- ⇒ Bill Verification
- ⇒ Consulting and Project Management



electrical

a fundamental form of energy observable in positive and negative forms that occurs naturally (as in lightning) or is produced (as in a generator) and that is expressed in terms of the movement and interaction of electrons.



IN-HOUSE SOLUTIONS

We have the experience and resources, all in-house, to successfully complete any project. Part of our team is professional electrical engineers as well as project managers and electricians. We are registered with the CIDB (Construction Industry Development Board), specifically for electrical infrastructure projects. Safety on site is always our number one priority.



VARIOUS SECTORS

We are deeply involved in various sectors and technologies. Including, but not limited to: Mining, Industrial, commercial, residential and agricultural.

- ⇒ Design & Implementation
- ⇒ Testing & Commissioning
- ⇒ Project Management
- ⇒ Measurement & Verification
- ⇒ Consulting & Owner's Engineering



FLAGSHIP PROJECTS

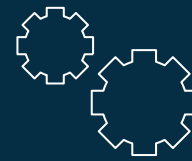
Eskom substations: Monitoring and Control Cables, AC and DC cabling, terminations and testing at:
Karusa Windfarm (147MW)
Soetwater Windfarm (147MW)
A WBHO / Enel project development

High mast lighting LED retrofit in rural areas. Decommissioning, installation, testing and verification of service level of more than 400 lights.

Various PV design and installation projects — roof and ground mount.

Renewable Energy

Renewable energy is energy that is collected from renewable resources that are naturally replenished on a human timescale. It includes sources such as sunlight, wind, the movement of water, and geothermal heat. Although most renewable energy sources are sustainable, some are not.



IN-HOUSE SOLUTIONS , DESIGN & IMPLEMENTATION

We have the experience and resources, all in-house, to successfully complete any project. Part of our team is professional electrical engineers as well as project managers and electricians. We design, implement, commission and provide the needed support after implementation - all from one office. Constantly striving to provide a custom solution for every unique and/or specific client need.



TURNKEY SOLUTIONS

We are deeply involved in various sectors and technologies. Including, but not limited to: Industrial, commercial, residential and agricultural.

- ⇒ Off-grid and Hybrid Solutions
- ⇒ Grid-tied and other source integration
- ⇒ Certificate of Compliance (AC & DC)
- ⇒ Project Management
- ⇒ All the equipment and meters
- ⇒ Victron, SunSynk, SolarEdge, Blue-Nova, FreedomWon, SMA, etc



ENGINEERD SOLUTIONS

Involved with more than 1MW of Solar PV Projects. Consulting, commissioning, design, and implementation.

Various PV design and installation projects — roof and ground mount.

Custom solutions, custom builds. All performed in-house by experts.

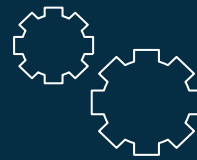
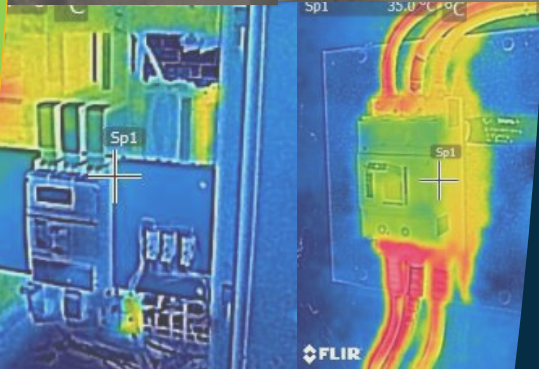
Generator & wind integration projects.

Full engineering team, support, and qualified electricians to assist you.

Building Condition Assessments and Compliance according to SANS 10400 and other relevant standards

Building Condition Assessments

Know the conditions of your assets and associated sub-systems. You can't manage and plan for what you don't know.



Why is it necessary?

When purchasing or managing properties or companies, it is often necessary to carry out condition assessments (also referred to as Facility Condition Assessments). It is a systematic inspection, review, and report on the state of a building's structure and systems.

This is done by a competent team of Engineers due to the speciality knowledge necessary to accurately identify and quantify findings and provide detailed reports.

It is an effective tool to identify areas of non-compliance, and thus allow for corrective or preventative action. This is a service that will help owners and occupants to ensure that their buildings are up to standard, well maintained and the asset's worth is managed. It is therefore essential to ensure continual compliance with the requirements of SANS 10400.



What is Assessed?

A comprehensive report will be provided detailing corrective actions, priorities and estimated associated costs pertaining to:

- Mechanical Services
- Electrical Services
- Wet Services (all water related)
- Fire Services
- General condition (civil)
- Client Specific (eg. ITC, etc)



Our history

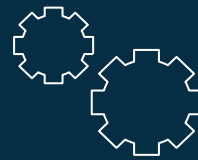
Xnovest Africa has conducted various Condition Assessments on more than 50 buildings in various sectors, mostly commercial, retail and industrial.

Due to the experienced resources and knowledge within our engineering team, we can successfully provide detailed expert feedback to the client.

Fire Services

Fire Compliance & Risk Assessments; Due Diligence Audits

Save lives and protect assets – ensure your fire safety is complying to legal regulations and standards



Why is it necessary?

When purchasing properties or companies, it is often necessary to carry out due diligence assessments to ensure that you have full knowledge of what you are buying. Fire safety is an essential aspect of this, as shortfalls in fire safety standards or lack of maintenance of fire safety systems can require expensive upgrades, making it is essential to ensure this is identified before the purchase.

A fire safety audit is an effective tool to identify areas of non-compliance, and thus allow corrective or preventative action. This is a service that will help owners and occupiers to ensure that their buildings are safe and fitted with compliant fire safety installations and that those fire safety installations are maintained in an operational condition. It is therefore essential to ensure continual compliance with the requirements of the Occupational Health & Safety Act.



The Result

A comprehensive report will be provided stipulating all fire and risk related results during the assessments. This will assist the owner to begin with an action plan towards corrective actions to ensure compliance towards fire safety regulations.



Our history

Xnovest Africa has conducted fire compliance audits, due diligence and risk assessments on more than 80 buildings during 2018 and 2019. These included commercial buildings, manufacturing sites, government buildings and hospitals. Compliance is done according to various standards, including, but not limited to SANS 10400-T, SANS 1128, SANS 1186, SANS 10114, SANS 10139, SANS 10287, etc.

ISO

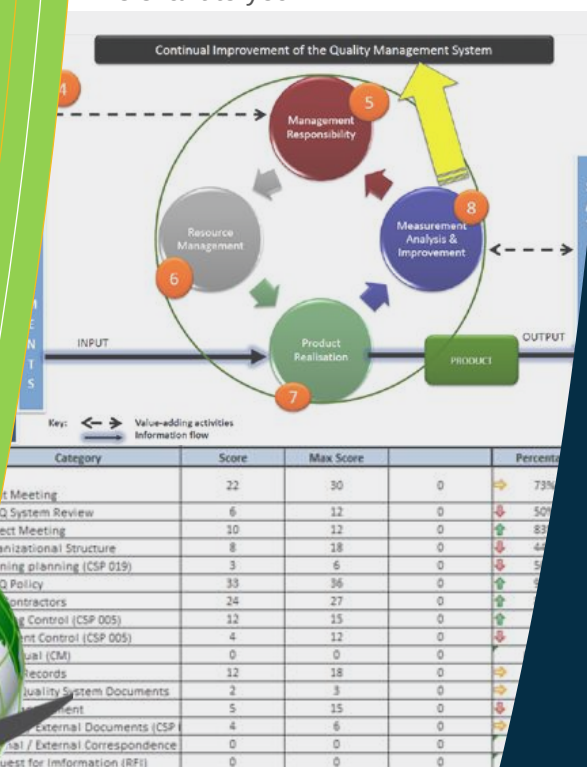
The formal definition from the International Organization for Standardization (ISO) and its sister organization, the International Electrotechnical Commission (IEC) is: a document, established by consensus and approved by a recognized body, that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context.



What are standards and how do they help?

- Have you ever stopped to wonder why you can use your bank card almost anywhere in the world?
- Or been thankful that the dashboard symbols in the Japanese car you have hired in Australia are the same as in your own German car at home in Johannesburg?
- Or noticed that you can watch video footage delivered via the Web on any of the different computers you have access to?
- Or noticed that your baby's toy has no sharp edges?
- Or wondered how could fast-food chains operate the same in different countries?

These and many other examples of convenience for consumers in everyday life show why standards, especially International Standards, are directly relevant to you.



CUSTOM SOLUTIONS

We provide custom solutions to fit each client's need, business and sector. Xnovest Africa will ensure the effectiveness of the system as well as continual development through our unique system based implementation approach to ensure an audit ready system and sustainable workable system.



OUR IMPLEMENTATION GOAL

- ⇒ Ensure a functional ISO/IMS management system.
- ⇒ User friendly system with all information (production, management etc.) readily available with statistical analysis flow. This gives the client a monetary value from the ISO/IMS system.
- ⇒ Full ISO compliance.
- ⇒ Empowering each employee / user.



POPULAR STANDARDS

- ⇒ ISO 9 001 - Quality Management Systems
- ⇒ ISO 14 001 - Environmental Management
- ⇒ OSHAS 18 001 / ISO 45001 - Occupational Health and Safety
- ⇒ ISO 17 020 - Inspection Bodies
- ⇒ SANS 50 001 - Energy Management
- ⇒ SANS 50 010 - Measurement & Verification



XA ElectriCo

A proud subsidiary of Xnovest Africa:
Experienced team of electricians — all under one roof
Commercial, industrial, mining and residential



A proud subsidiary of

Xnovest Africa
Consulting Engineers

BACKGROUND



XA ElectriCo was established as a subsidiary of Xnovest Africa Consulting Engineers when the need was identified for professional electrical services with a difference. ElectriCo is backed-up by a team of Senior Engineers (Electrical and Mechanical) as well as project managers. We are well equipped, professional, reliable and proud of our work.



A PROUD DIVISION OF XNOVEST AFRICA:

Based in Potchefstroom, we have executed projects nationally as well as across the borders in Southern Africa.

We have extensive experience within various sectors, including commercial, industrial, residential and mining.

We assist the client from design consideration, actual design, implementation and maintenance - all from under one roof.

We strive to build lasting relationships with our clients.

TAKING PRIDE IN WHAT WE DO



This motto is not only on our office doors, we strive to live by it. Our company consists of a friendly and highly skilled team of experts.

We perform our work in the most efficient way using the highest standards and best techniques.

www.electrico.co.za



www.powercen.co.za

info@powercen.co.za

Engineered Solutions

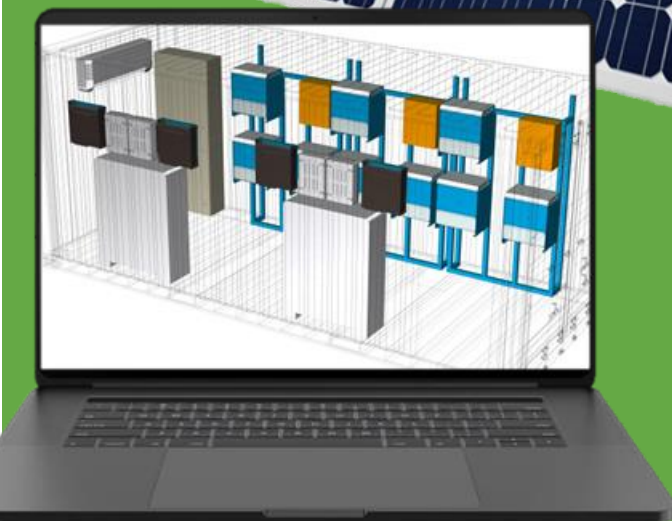
Endless Possibilities



Up to 180kVA, 3phase system in a 6m unit. Larger systems custom designed.

Agricultural | Commercial | Industrial | Mining

Power Centre is a proud inhouse product of Xnovest Africa and XA Electrico.



Custom, modular & moveable energy storage systems — providing the power you need, when you need it.



Containerised Renewable Energy Solutions

Modular | Custom | Secured | Moveable | Sustainable



Our clients include:

- Various Government Institutions / Bodies / Municipalities
- North-West University (NWU)
- University of Johannesburg (UJ)
- University of Cape Town (UCT)
- Tiger Brands / King Foods
- Samancor Chrome — Mining
- Samancor Chrome — Smelters
- Sasol — Mining Operations
- Dundee Precious Metals Tsumeb
- Pick n Pay
- AECOM
- Growthpoint
- CSIR – Council for Scientific and Industrial Research
- SERA – Swaziland Energy Regulatory Authority
- SEC – Swaziland Electricity Company
- Nissan
- WBHO
- Enel
- Standard Bank - Lesotho
- PPC Cement
- Atlantic Oil Inland
- Letšeng Diamond mine
- RCL Foods
- NECSA (Nuclear Energy Corporation of South Africa)
- SANAS – South African National Accreditation System
- SANEDI - South African National Energy Development Institute
- DOE - South Africa Department of Energy

Mission, Vision & Core Values

At Xnovest Africa, we love people, Africa and our work. We take pride in what we do, and that makes all the difference.

Our vision is to be recognized by our clients as their preferred partner who is always available, professional and trusted. At Xnovest Africa we know our roots with a city professionalism. We aim at sustainability, to empower each client when a project is completed.

Our vision serves as a framework and guides every aspect of our business by describing what we need to accomplish to continue achieving sustainable, quality growth.

We will live our values and manage our business with integrity. We will develop our professional staff in a socially responsible manner. We want to inspire hope, create value and make a difference through our culture by helping build and support sustainable communities for future generations.

It is our mission to bring energy know-how to Africa by providing professional, trusted, engineering knowledge and expertise to ensure affordable, reliability and sustainable energy solutions – tailored for each client.

Taking pride in what we do
Local. Experienced. Diverse.



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Engineered Solutions that work
for your business

