



ADVANCED
TECHNOLOGIES & SOLUTIONS

COMPANY PROFILE



Advanced Technologies and Solutions.
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CORPORATE PROFILE



INTRODUCTION

Advanced Technologies and Solutions is a dynamic local distributors of Overhead HT & LT Transmission Line Products, Telecommunication products, Test and Measurement equipment. We are also specialists in the analysis, design, development and implementation of information systems for the management of engineering, financial, production, office automation and other services, Advanced Technologies and Solutions supports and provides the necessary tools to sustain optimal management of the information systems. Information from a wide spectrum of sources forms the key ingredient in all decisions. There is today, a growing need to consolidate this information into easily digestible formats for decision-makers.

Advanced Technologies and Solutions follows a systematic interactive approach when dealing with clients who need assistance in compiling practical systems for proper information management and maintenance. A main component of this approach is to highlight the need for co-operation between officials and end-users, which is essential for the successful implementation of the systems. A number of projects based on this procedure have been concluded for local, regional, national and international clients both in the public and private sectors.

PURPOSE OF THIS DOCUMENT

This document is aimed primarily on persons that deal with our company in various business levels, either as customers, suppliers or financiers. Advanced Technologies and Solutions found it advantageous to work relationship with the support of Clients to offer wide range of services while maintaining control and management of services.

The purpose of this document is to assist our Clients with the Supply, Installation and Repairs of Overhead HT & LT Transmission Line Products, Telecommunication products, Test and Measurement equipment. This would enable client to offer the required services to its client at an appropriate time to meet the gruelling demands of a global economy where time is money.

The other purpose of this document is to introduce the client to the services that can be offered by Advanced Technologies and Solutions. If the client decides to make use of the services offered by Advanced Technologies and Solutions, a formal presentation will set up that satisfies the requirements of the client before inception of any project.

MISSION

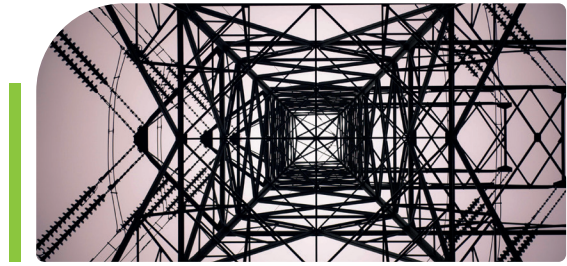
Our mission is to have fun while we work and ensure profitable and sustainable growth by out-performing our competitors in the Power industry and telecommunications industry.

VISION

Our vision is too consistently striving for quality service to our clients, while enabling skills development.



OUR STRENGTHS



QUALITY

Quality is of paramount importance to us and we are constantly elevating our standards of excellence by offering better quality products and services. From conception to final delivery, every product undergoes several quality tests. Our team of experts maintains a strict vigil on the manufacturing process to ensure that all the products are flawless.

INFRASTRUCTURE

With a sound business and set up team of skilled professionals, the organization boasts of offering the best to its clients. The use of latest machines and tools along with the dedication of employees helps the company achieve a respectable position in the market. We are presently in the process of developing the services by setting up a local workshop, since we presently work hand in hand with our South African partner.

OUR VALUES

- Deliver best-in-class, scalable Products in the power industries and communications industries.
- Provides solutions that meet the needs of both users and business in power industries and communications industries.
- To deliver the required products within a reasonable time frame to meet the gruelling demands of a global economy where time is money.
- Provides solutions for the new technology era as the view of the industry shifts from an infrastructure focus to a business tool.
- Treating all our customers fairly and justly e.g. no customer is either too small or too big for us. The well-being of our business depends on all our customers.

OUR SUPPLIERS



KRONE



PRODUCTS & SERVICES



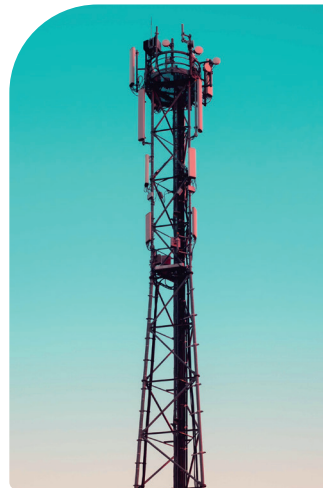
HT & LT Transmission Products

- Overhead Line equipment
- Vacuum circuit breaker
- SF6 Contactors
- Ring Main Units
- Metering Units
- Medium & Low voltage switchboards
- Instrument Transformers
- Protection Relays
- Distribution Transformers
- Mini substations, Instruments
- Isolators
- Polyphase Meters
- Inducon Bus Bars
- And others



Telecommunication

- Products Testing tools
- Postal Equipment
- Switching Equipment
- Power Supply Equipment
- Transmission Equipment
- Terminal Equipment
- Connection Equipment & Accessories
- Lightning Protection Equipment
- Optical Cables Copper Cables
- Soward Manufactures
- Fibre- Optic installation



Test and Measurement equipment

Tektronix
IWATSU

solartron
KIKUSUI
KIKUSUI ELECTRONICS CORP.

FLUKE
MAJOR
TECH

Aim TTI
VeEX

- Radio Equipment
- Radiation Emission
- Network Links and Commissioning of Sub-stations
- PABX systems
- Cable Free Space Opt
- Systems Integraon and Evaluation



- Temperature Probes
- Telemetry
- Currency Note Counters/Testers
- Energy Meters
- Remote Site Monitoring
- Repairs and Calibration Services
- Mass Scales

TELECOMMUNICATION TEST EQUIPMENT

- Telecom Test PDA
- PONPower METER
- 10G PON PM
- Optical Power Meter
- Laser Source
- VFL OTDR
- Fiber R anger
- Launch Cable Box
- Cleann Tool Kit
- Fusion Splicer
- Fiber Cleaver
- Fiber Identifier
- VDSL Tester
- ADSL2+ Tester
- Telephone Line Tester
- Cable Traker
- Cable Fault Locator

Installation of Arial OpC fibre Cable.



Installation of Overhead lines.

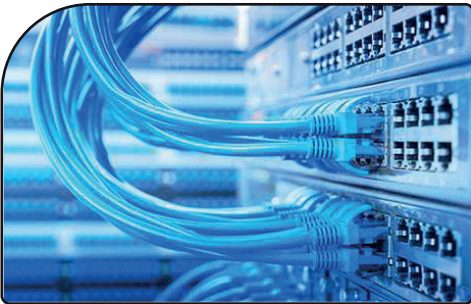


Supplies of Fuses.



- Supplies of Towers and Antenna
- Base Station Antenna Options.
- Prevent lighting damage before it strikes

Supplies of networking solutions and related products.



Two-way Radio Communications



Switch Gear products

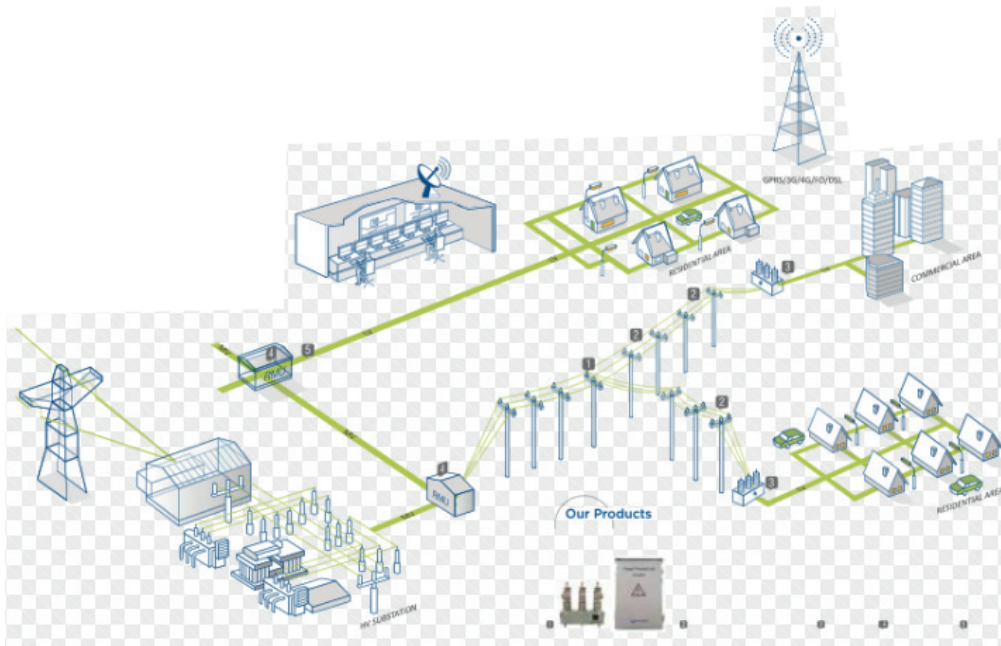
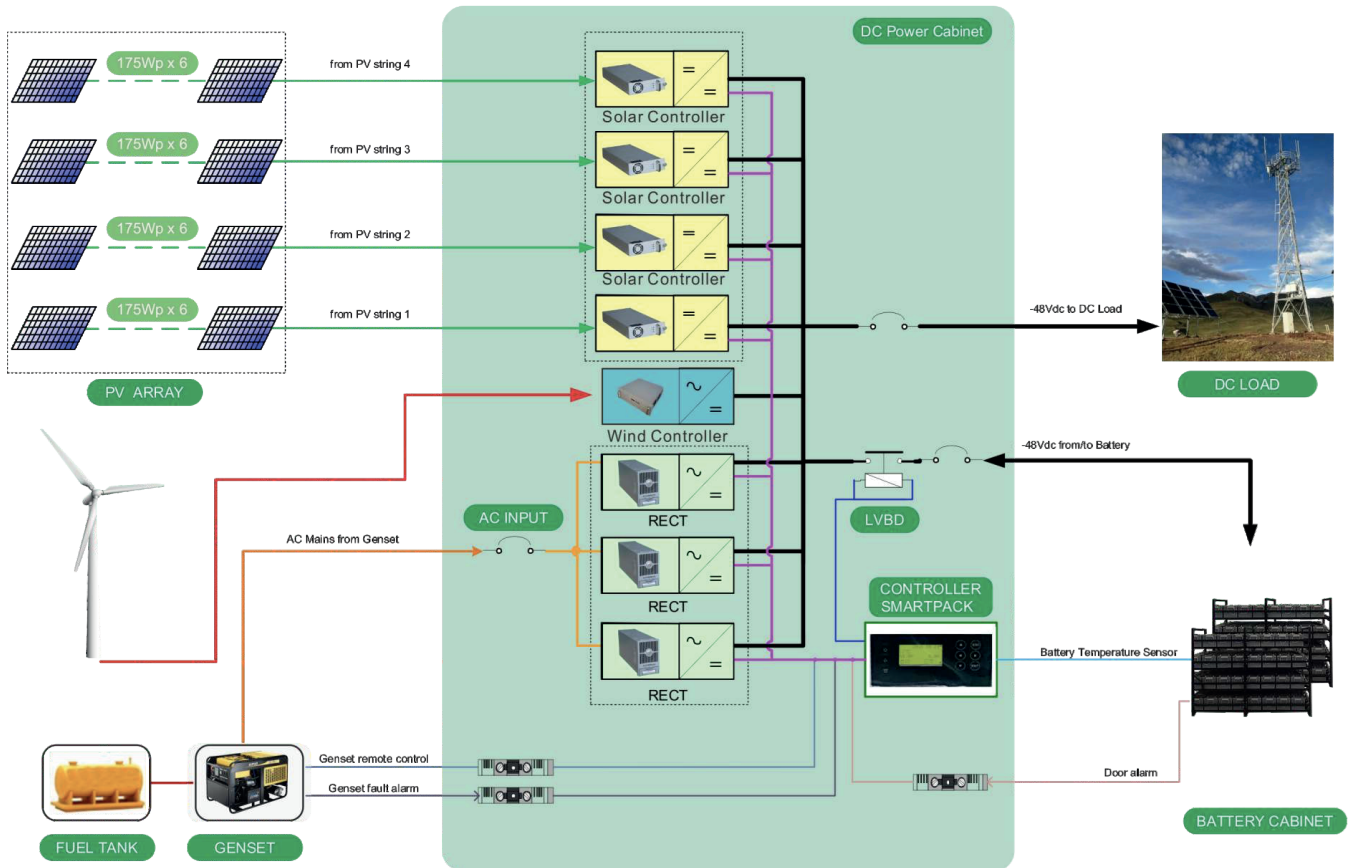


SOLUTIONS



ELECTRICAL ENERGY SOLUTION

Application:



CONSULTANCY

We offer professional consulting services to develop a workable solution to the customer, prior site inspections are done on site to get existing lay-outs and then determine a solution.

We represent a comprehensive range of DC power solutions, UPS and battery subsystems to support telecommunication infrastructure whether they are in the central offices or are in far flung remote transmission sites.

RECTIFIERS AND DC POWER SYSTEMS

Advanced Technologies and Solutions represents and integrates a full range of rectifiers and DC power solutions. These solutions extend from small outdoor systems for standalone deployment of transmission and backhaul equipment, to large systems for central office applications supporting thousands of amperes of system load.

Our power solutions offer innovative features such as intelligent module initiation and delayed initiation to reduce initial current surge and thus allows the generator to be optimally sized and further leading to optimal fuel economy.

ADVANCED BATTERY SOLUTIONS

We offer a complete range of VRLA batteries for telecom applications available in various capacities, configurations and for both in-door and out-door application environments.

Customers can choose from our broad range of battery solutions to meet their operating requirements, including 2V and 12V systems in AGM or Gel types. For improved performance under harsh conditions, many of the batteries are available in tubular form and features quality components such as gel from Germany, and tubular sleeves from Armasil.

We also now offer the new generation of lithium batteries (LiFePO₄) designed for telecom applications. These lithium batteries are comparatively light weight and very compact compared to the traditional VRLA batteries, in a 19-in rack mount form factor. Available from 48V@10A to 48V@50A capacities, the compact nature allows this battery to be deployed where space is a premium, or simply not available, such as within a wall-mounted rack.



IMPLEMENTATION



PROJECT MANAGEMENT

- Writing of specifications
- Civil contractor management
- Civil Acceptance
- Fibre Optic Network infrastructure installation
- Traffic diversions associated with these projects
- Project Management
- Dedicated Installation Liaison Officers on site
- As Build Documentation
- Project Management Back Office Documentation

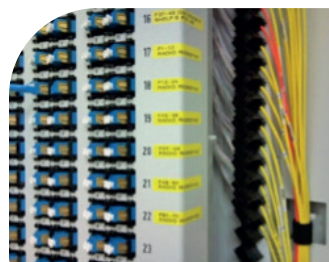
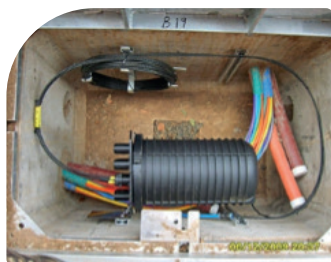
FULL TURNKEY SERVICES FOR:

- Civil route build
- Optic fibre build
- Site access build

TESTING AND CERTIFICATION

ACCEPTANCE TEST PROCEDURES AND CERTIFICATION

- Our fibre optic installers are all certified technicians, who have undergone their Telkom training and apprenticeships.
- We use only the latest Exfo OTDR's for advanced link characterization and troubleshooting of long-haul and metro networks.
- For insertion loss testing, we use Exfo MaxTester and FTB400.
- All tests are done in accordance to the relevant ITU -T, IEC and FOTP Recommendations and specifications for system operation at 10 Gbps.
- We do full OTDR, OLTS/ORL, PMD and CD



HEALTH AND SAFETY



Safety, health and protection of the environment form an integral part of ADVANCED TECHNOLOGIES AND SOLUTIONS. Telecommunications' planning and decision making. We manage our company in an ethical way that strikes an appropriate and well reasoned balance between economic, social and environmental needs.

ADVANCED TECHNOLOGIES AND SOLUTIONS has a dedicated and fully accredited SHEQ Manager as well as Regional Health & Safety Officers plus an additional Health & Safety Representatives in each Region. Regular training is of paramount importance and this is regularly conducted by our SHEQ Manager both on site and at the ADVANCED TECHNOLOGIES AND SOLUTIONS Offices.

Unannounced site inspections are regularly undertaken by our H&S Officers. Any non-conformances are dealt with immediately and retraining is conducted, if necessary.

ADVANCED TECHNOLOGIES IS COMMITTED TO:

- Conducting our business with respect and care for people and the environment.
- The responsible utilisation of natural resources.
- Continually improving our safety, health and environmental performance.
- Complying, as a minimum, with all applicable legal and other agreed requirements.
- Promoting dialogue with stakeholders about safety, health and environmental performance.

QUALITY ASSURANCE

Both management and staff are committed to our quality system, which not only provides an ever improving business process to track and assess our efficiency and effectiveness, but also constantly re-engineers the organization in all areas of our business. ADVANCED TECHNOLOGIES & SOLUTIONS Telecommunications is ISO 9001: 2008 certified.

MAINTENANCE

Advanced Technologies and Solutions provides after comprehensive customer support comprising:

- Seven days a week emergency repairs and spares service upgrading and modification of protection and metering systems
- Conversion of oil circuit breakers to vacuum interruption breakers equipment refurbishment installation and commissioning Operation and maintenance courses for customers, both inhouse and on site.
- The company is SABS ISO 9000 accredited
- Advanced Technologies and Solutions SWD Switchgear has the technical expertise and field experience to advise and assist customers various system design, deployment and utilisation.
- The company is committed to continuous development, safety and quality enhancement of its products.

Choose from one of our yearly, monthly, or ad hoc maintenance agreements. We offer:

- Fault Logging by telephone to our call centre
- Fault Logging via the internet
- Negoable Response mes
- On-Site support



AFTER SALES SUPPORT / INDUSTRY RISK

Advanced Technologies and Solutions has always been very Pro-active in promoting Information Technology in all spheres of its business, although the way a customer may occasionally or may from time to time encounter specific problems and the need arises for product backup. Our company saw the need and we have a dedicated team that provides this service at competitive rates and turnaround times. We believe on helping the client although the way, we never leave the customer in the mercy of fate but together build a future that we can all attest to. For every new building and new structure that is erected today, there arises a new job market that will rely on our quality products and services. We are not at risk to market swings due to our wide client base however technology may change but there will always be a market for our kind of services and products, new or refurbished.

TRAINING

Advanced Technologies and Solutions believes that much of its continued growth can be attributed to its commitment to the training of its staff. Staffs are sent to accredited institutions for required training and where necessary required departments get training. At presently the company has send (4) four key members of stuff to be trained on how best to repair, test and do calibrations to our equipment or products.

Training is also given to client or customer on latest technology products and solutions.

BUSINESS INFORMATION

Number of people employed, Engineers and Technicians.

- 11 (eleven) Commissioning Technician
- 3 Site Manager
- 1 Senior Linesman
- 2 Systems Engineers
- 1 General Manager
- 1 Finance & management
- 1 Operations Manager
- 1 Salesman & Marketing

PROJECTS DONE

Project: Supply, Installation, Termination, Commission and Handover of BTS Cabinets and power rectifiers.
Name of Company: Swazi MTN Limited
Year done: 2016
Value: E1, 563, 857, 65

Project: Roll out of outside plant Network
Name of Company: Swaziland Post and Telecommunications Corporations
Year done: 2017
Value: E2, 90, 447, 60

Project: Supply and Installation of OPGW and ADSS
Name of Company: Swaziland Electricity Company
Year done: 2010
Value: E 1, 085, 000, 00

Project: Supply of Line Hardware
Name of Company: Electicidade De Mocambique
Year done: 2012
Value: ZAR 1.0 Million



Project: Roll out of NGN
Name of Company: Swaziland Post and Telecommunications Corporations
Year done: 2012
Value: ZAR 1.4 Million

Project: Supply of Installation, Commissioning of Free Space Optic Solution and Network Planning Tool Software
Name of Company: Swaziland Broadcasting and Information Services
Year done: 2011
Value: ZAR 4.0 Million

LIST OF REFERENCES

Name: Mr. Amon P. Dlamini
Designation: General Manager Projects & Strategy
Customer: Swaziland Post and Telecommunication Corporations
Contact details: Tele: +268 2405 22 (w); +268 7606 2009

Name: Mr. Elias Cuambe
Designation: Network Distribution Director - Maputo
Customer: (E.D.M) Electricidade De Mocambique
Contact details: +258 82 2692020

Name: Mr. Musa Maseko
Designation: Network Engineer
Customer: Swazi MTN
Contact details: +268 7606 0020

Name: Mr. Jabulani Simelane
Designation: Project Manager
Customer: Swaziland Broadcasting and Information Services
Contact details: +268 7854 1221

AVAILABILITY OF TEST EQUIPMENT.

We have necessary test instruments such as:

- 2sets of Power meter and Light source
- 1 set of EXFO FTB 300 OTDR
- 1set of Fujikura 40s Fusion splicer
- 1set of radio detecon for buried cables and pipes.
- 1 set of ANT20 spectrum analyzer
- 1 set of Sunlite E1 tester

LIST OF MAJOR CONSTRUCON EQUIPMENT TO COMPLETE INSTALLATION.

- 2 x 8ton Trucks with cranes
- 2 x 1 ton 4x4 LDV
- 4x sets of drum stands
- Running blocks for cables
- Tensioning ratchet hoists
- 1 x winch and Tensioner set 2.5ton
- Come along clamps
- Komatsu WB93R-2 TLB



CONCLUSION

We believe that our customers are looking for more than just a supplier who is only able to procure stock from local or overseas Suppliers. We believe our customers are looking for a partner who is dedicated to the needs and demands of their respective industries; a company that is in touch with industry trends, who will guide them through phases of transition and provide only the highest grade products at a cost which is market related and above all; a company that is able to supply the required products within a reasonable time frame to meet the gruelling demands of a global economy where time is money. Buy in Confidence, buy ADVANCED TECHNOLOGIES AND SOLtUTIONS. We further wish to advise our prospective clients and corporate businesses who are interested in contractual package or maintenance services to contact us for detailed information.

