

About KayaBona:

KayaBona began with the simple idea that we could do it better. We had often worked with clients frustrated by previous experiences with under-performing solutions, poor client service and misinformation. We want to help clients find the best solution for their current challenges, that also fit within their budget, organisational culture, and future planning. We set out to work in a flexible way to assess facts and expectation; to talk through options, innovation, and possibilities, so that we can provide truly tailor-made solutions to transform data into success. Our team of partners and suppliers represents many years of combined experiences and guarantees that we can deliver on our promise.

We have also listened to your needs and developed our own bespoke solutions that caters for the following areas:

- Clean and alternate Power solutions:
- Perimeter Security: KayaBona has developed bespoke security solutions using the newest breed of Cameras and intuitive software by using modern technologies like Artificial intelligence, analytics, and machine learning
- Connectivity, specifically using technologies that will connect you no matter how remote your location.
- Livestock and animal security, in the farming community's livestock theft has become a problem that is difficult to control and yet has a big impact on sustainability of our populace. With our in-house developed technologies, we have some very bespoke solutions specifically catered and developed to assist and solve these problems.
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ETHICS:

Acting with integrity is at the heart of our company. It is not just the best form of professionalism; it ensures that we can work together to provide the best solutions and services for clients. It improves everyone's performance and protects our clients, staff and company in today's complex business and regulatory environment. Integrity is our foundation for build satisfying collaborative and enduring relationships with our clients and partners.

Talented, Innovative, Passionate

We have access to a flexible team of individuals and alliance partners with diverse skills and specialist abilities to realise your vision of project success. Our team leverages off deep industry knowledge and extensive experience in partnering with world leading technologies to deploy robust and reusable digital solutions and services.

We started KayaBona in 2020 to serve the dynamic South African market. We are excited about evolving technology and look forward to the future possibilities it offers our clients. We want to connect you to innovative business solutions that will improve your productivity, enhance your safety, and support your digital workplace.

THE SERVICES WE PROVIDE

- Consulting Services – to ensure that the correct solutions are found for your needs and budget
- Solution Sales – Our dedicated sales professionals will be able to assist you with a solution tailor made to suit your requirements
- Support Services – We strive to not only assist you with a solution that works for you, but also ensure that it keeps on working for many years to come, thereby enhancing your return on investment.

PRODUCTS

SOLAR SOLUTIONS:

What is solar?

Solar energy is radiant light and heat from the Sun that is harnessed using a range of technologies such as solar power to generate electricity, solar thermal energy including solar water heating, and solar architecture.

It is an essential source of renewable energy, and its technologies are broadly characterized as either passive solar or active solar depending on how they capture and distribute solar energy or convert it into solar power. Active solar techniques include the use of photovoltaic systems, concentrated solar power, and solar water heating to harness the energy. Passive solar techniques include orienting a building to the Sun, selecting materials with favourable thermal mass or light-dispersing properties, and designing spaces that naturally circulate air.

At KayaBona we use mostly passive solar technologies to craft solutions specific to you. To this end we have partnered with some leading suppliers in the solar market to bring the right solution to you at the right price.

Narada Lithium Batteries:

Narada, established in 1994 in Hangzhou/China, has become one of the leading battery manufacturers and global battery suppliers of the world. Their main business is the development, manufacturing, sales and service of communication backup, motive power and renewable energy storage batteries and accessories.

These products are widely used in telecom, electric power, railway and other infrastructure industry and are also sought after to store efficiently renewable energy coming from photovoltaic energy and wind farms.

Narada has a strong focus on research and technological development to foster its

growth and supply innovative solutions to its customers. The in-house, CNAS accredited laboratory for battery testing and qualification activities facilitates

obtaining the necessary type test approvals by its customers.



Pylontech

Pylontech is a unique company with vertical integration of all technologies needed for ESS (Energy storage system) including cathode material, lithium cell, BMS and system integration. With self developed key technologies and dedication to ESS applications, Pylontech had been pioneering the global ESS market from 2013.

With more than 3.0 GWh products been commissioned in 80 countries until end 2019, Pylontech is proudly contributing our strength in changing the way people generating, transferring and using the electricity.

Your dream of future energy is our heart-oriented motivation, Force awakens.



Inverters:

We make use of different types and brands to get a solution that meet your needs, whether it is a small home solution or a big 3 phase solution that uses 30KW or more, we have the right Inverter for you. We make use of the following brands:

MECER

Mecer is the proprietary brand of Mustek, South Africa's leading assembler and distributor of branded PCs, all-in-ones, notebooks, tablets, inverters, UPSs and related products. The Mecer brand is one of South Africa's top-selling brands. They

have now assembled a range of solar products that they distribute which are based on world leading brands, their support is local and unrivalled.



AXPERT

This is a multi-functional inverter/charger, combining functions of inverter, MPPT solar charger and battery charger to offer uninterruptible power support with portable size. The Axpert inverter range offers an “All in one” solution to your off-grid solar power solutions.



SOLAR EDGE

SolarEdge Technologies, Inc. is an Israel-headquartered provider of power optimizer, solar inverter and monitoring systems for photovoltaic arrays. These products aim to increase energy output through module-level Maximum Power Point Tracking (MPPT).[2] Established in 2006, the company has offices in the United States, Germany, Italy, Japan, and Israel. It is incorporated in Delaware.



VICTRON ENERGY

Victron Energy originated in the Netherlands and has been manufacturing power conversion equipment since 1975. It is now well known around the world for producing reliable off-grid battery inverter/chargers and a wide range of quality, affordable solar controllers.



SOLIS

Inspired by a science project and thriving as a smart, reputable power solution provider, Solis Energy, Inc. is a manufacturer of outdoor power systems for the industrial automation and control, transportation, telecommunication, security, and government markets. Their products include solar generators, outdoor battery backup systems, and a suite of power management components including PoE injectors, DC to DC converters, and remote monitoring equipment. More than just solar, Solis Energy's field-tested reliability and cost-effective solutions are what their customers depend on for their power needs. Solis Energy products are made to last, and installations can be found on all habitable continents and climates ranging from mild to harsh, ensuring that critical energy is running to your systems even in the most extreme conditions. For over ten years Solis Energy has committed to developing innovative, reliable products that provide our customers flexible solutions to take control of their outdoor power requirements.



SECURITY

Video Analytics:

With our bespoke solutions KayaBona is able to take any make or brand of video surveillance camera and turn it into a security and property defence system that is able to warn you of events and people that could harm you. THE ULTIMATE PRE_EMPTIVE SECURITY SOLUTION

KayaBona has partnered with some of the most renowned leaders in this field to bring you a world's leading solution of intelligent Video Management and Physical Security Information Management software systems (VMS and PSIM). The company has been creating disruptive technologies that push the Safety & Security industry forward.

Next VMS and Intellect Enterprise PSIM offer the absolute best integration and customization capacity. Integrators can build best-in-class true intelligent security solutions powered by Artificial Intelligence to meet the needs of a particular facility or industry. AI learns to perform customer-specific tasks from video materials obtained onsite.



Integration

Standards & Protocols

Integration with third-party hardware and software. Support for standard protocols: ONVIF (Profile S, G, T), BACnet, OPC, Modbus, SNMP.

Hardware & Software

Wide choice of ready-made integrations to simplify selection of hardware for a project. Video cameras and recorders, access control, perimeter security, fire and security alarm systems.

Supported brands

Any combination of vendor brands within a system with on-demand integration of particular hardware into a project. Get up to date DriverPacks and documentation.

Behaviour Analytics

Recognize potentially dangerous situations by detecting specific human postures.

Skeleton Analysis:

- The skeleton of the silhouette is segmented into separate pieces of the body. The system identifies the positions of the body parts to detect the pose
- Enhance security for law enforcement facilities, schools, airports, banks, commercial spaces, or office buildings. Detect suspicious, anomalous, or deviant behaviour.

<https://www.youtube.com/embed/EfTDtu1O0TU?autoplay=true>

Armed Robbery Detection

- Recognize the classic armed robbery holdup position, with one person leveling their arm while another one raises their arms above their head at a fast speed.
- Alert authorities to threats as they happen without having to put innocent parties at additional risk by raising the alarm themselves.
- This ability can be deployed at any site with cash desks: banks, gas stations, convenience stores, etc.

<https://www.youtube.com/embed/wo8aGvs2HTw?autoplay=true>

ATM Attack/Crime Detection

- Provide early warning to the centralized video surveillance system.

- Detect suspicious squatting or climbing activity near a cash machine that may indicate an attempt to disable/remove the security alarm system or place an explosive.
- Alert security personnel to take proactive actions before cash is stolen from ATMs.
- This ability can be deployed at any site with ATMs: banks, gas stations, convenience stores, etc.

<https://www.youtube.com/embed/EXAZ0aeoa08?autoplay=true>

Man Down Detection

- Detect persons lying on the floor or ground for extended periods of time.
- Use high-resolution thermal cameras that help clearly visualize the location and position of an individual, even in total darkness.
- This ability is essential for hospitals, senior living facilities, and home care.

https://www.youtube.com/embed/uREK_s1UjBQ?autoplay=true

Livestock Tracking:

With theft of your precious livestock being a big problem to any farmers in South Africa we have created some very unique solutions to suit your farming activities, whether it be in Game or commercial livestock breeding. We have a range of solutions that would suit you, some of the benefits are:



High Precision GPS

GPS and GLONASS positioning systems are used simultaneously with a 72 channel high sensitivity receiver (-167dBm) for enhanced accuracy and faster fixes.



Rugged & Weatherproof

IP67 rated housing ensures devices can withstand fine dust, high-pressure spray, submersion for 30 minutes in 1m of water, and extreme temperatures.



Off the Shelf Batteries

Powered by the off-the-shelf batteries with built-in battery life management for monitoring use and remaining life predictions, this is dependent on the model and make, some units are powered by Solar power.



Periodic or Movement-Based

Receive location updates regularly throughout the day or only when movement occurs with smart adaptive tracking technology.



Theft Recovery

Switch to Recovery Mode in the case of theft or loss to activate live-tracking at 30-second intervals for livestock retrieval.



Sleep Mode

Stationary devices enter sleep mode, switching the update rate to only once per day until movement occurs to conserve battery life and optimize data usage.



Advanced Geofencing

Create custom geofences and alerts if livestock enters or leaves specific locations. Geofences can also be downloaded directly to the device for enhanced location-based behaviors.



Inactivity Detection

Configure alerts if livestock stops moving for a specific amount of time.



Easy Install

Multiple installation options for covertly securing devices to assets with screws, bolts, cable ties, rivets, and more.+



Flexible Configuration

Configure device parameters such as heartbeat rate, movement and accelerometer settings, and more to fit any tracking application.



Global Connectivity

Cellular (2G, 4G LTE-M / NB-IoT), LoRaWAN®, Sigfox and Bluetooth® Tracking Solutions.



GPS – Solar Powered Ear tags for Cattle:

The GPS Ear Tag allows you to track and trace your cattle over long distances, even in remote areas without mobile coverage. They are the size of a standard management tag and can be tagged using a normal applicator. The reusable GPS ear tag is powered using a battery and integrated solar panels.





What the GPS ear tag does

The GPS Ear Tag sends your cattle's location to provide you with actionable insights and alerts.

These insights help you to run a better and more efficient beef enterprise.

- GPS location of cattle
- Light and easy to apply
- Built-in solar panel for charging
- Affordable
- Tags are reusable

GPS ear tag

1 Industry standard single prong design

2 Break resistant polycarbonate casing

3 Solar powered, built-in battery

4 Weighs under 30 grams

