

Schneider

Electric



Powering Sustainable Agriculture & Commerce

At TKS, we believe in harnessing the power of the sun to revolutionize the agricultural and commercial sectors. As a leading provider of solar energy solutions, we offer cutting-edge technology and expertise to help you achieve energy independence, cost savings, and a greener future.

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About Us



Welcome to TKS Solar Group!

At TKS Solar Group, we're not just about solar panels—we're about powering up the future. Our family includes TKS Solar Engineering, TKS Energy, and TKS Distribution, Sosial Responsibility all working together to bring you top-notch power solutions.



Starting as experts in backup power and data centers, we transformed into solar specialists when the South African market opened up in 2013. Our Head Office is in the bustling N4 Gateway Industrial Park in Pretoria. Plus, we have satellite offices in key locations, so we're always nearby to offer agricultural and commercial solar solutions far and wide. Southern Africa has embraced solar energy, with countless megawatts already installed. Through thorough research, we found that Schneider products are the best fit for our environment—they're innovative and reliable.

Our Partnership:

When Schneider asked us to be their System Integrator and Distributor for Southern Africa, we knew it was the perfect match. Schneider's products cover all the bases, delivering quality and performance that discerning customers demand.



Meet Our Directors







Alex Van Der Westhuizen

Andre Anderson

Jacques Oosthuizen

At TKS, we provide a comprehensive turnkey service to ensure superior quality across the value chain. In response to extended load shedding, we have established our own Battery Energy Storage System (BESS) facility, offering a fully integrated energy solution. We will also started to introduce Hydrogen Technology to enhance our energy mix.

TKS Solar Group is committed to delivering cutting-edge power solutions with Schneider's superior products, enabling our clients to confidently and sustainably navigate the evolving energy landscape.





How Can TKS



Help You

Sustainable Solar Solutions

Our solar solutions harness clean, renewable energy, reducing your carbon footprint and combating climate change. By adopting solar power, you contribute to a healthier planet for future generations.

Enhanced Efficiency

TKS integrates advanced solar technologies with innovative agricultural and commercial practices. Our customized systems optimize energy production and usage, boosting efficiency and cutting operational costs.

Financial Benefits

Investing in solar energy slashes electricity bills and operational expenses. TKS helps you access long-term financial benefits through incentives, tax credits, and favorable financing options.

Reliable & Scalable

We cater to the unique needs of large-scale commercial and agricultural enterprises. Our expert team designs tailored solar solutions for dependable and scalable power generation.

Comprehensive Support

From initial consultation to system installation and ongoing maintenance, we provide end-to-end support throughout your solar energy journey. Our dedicated team of professionals ensures a seamless transition to solar power, allowing you to focus on your core agricultural or commercial activities.



TECHNOLOGY

We Close The Loop!



Closing the loop

"Closing the loop" for TKS Solar means making their solar energy systems efficient and sustainable at every stage. They use technology to store energy when it's abundant, manage distribution smartly, and constantly improve how energy is used. They also focus on responsibly handling old equipment to reduce waste and protect the environment. It's all about making solar power reliable and eco-friendly from start to finish.



APPROVED By All The Major Banks

HTKS is recognized as a preferred solar project company by major banks, showcasing our trusted standing in the industry. We know that each client has different financial goals, which is why we provide a variety of flexible financing options. Our customized solutions are crafted to meet your specific needs, guaranteeing a smooth and personalized transition to solar energy. Whether you're looking for straightforward financing or a tailored plan, we're here to ensure you have the best experience possible.















Service Center

Services:

TKS offers a comprehensive range of services to support the installation and maintenance of solar energy systems. These services include system design, installation, routine maintenance, and emergency repairs. Our team of certified technicians ensures that all solar systems are running efficiently and effectively, maximizing energy production and longevity.

Reports:

TKS provides detailed performance reports for their solar installations. These reports include data on energy production, system efficiency, and any maintenance activities carried out. Customers receive regular updates and can access historical data to track the performance of their solar systems over time.

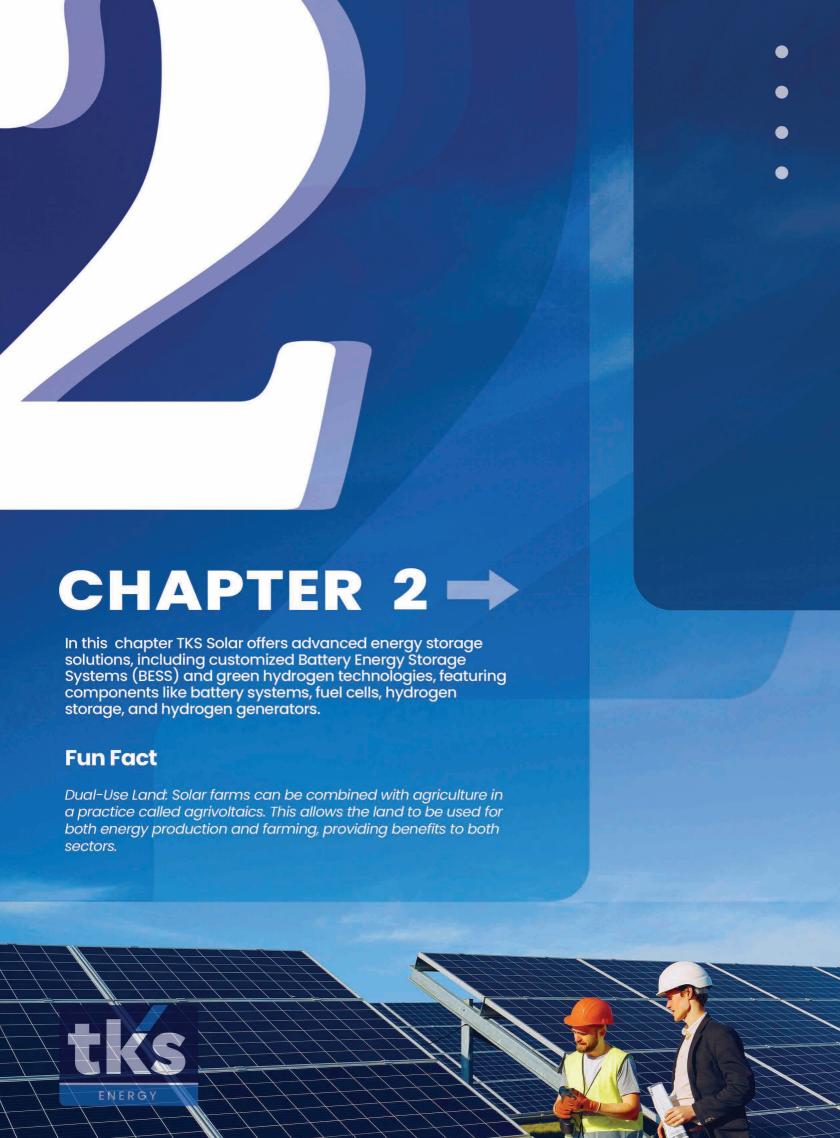
Insurance:

TKS partners with leading insurance providers to offer coverage for solar energy systems. This insurance protects against potential damages from natural disasters, accidents, or other unforeseen events. By offering comprehensive insurance plans, TKS ensures that their customers' investments are safeguarded.

Load Control:

TKS integrates advanced load control systems into their solar installations. These systems monitor and manage the distribution of electricity in the facilities, ensuring optimal usage and preventing overloads. By using smart load control technology, TKS helps customers achieve greater efficiency and reliability in their energy consumption.





Energy Storage selutions



Overview of BESS (Battery Energy Storage System)

Definition and Purpose:

BESS stands for Battery Energy Storage System, a technology designed to store electrical energy in batteries for future use. This system is pivotal in modern energy management because it enables the storage of energy generated from renewable sources, like solar and wind, which can be unpredictable and intermittent.

Balancing Power Supply and Demand:

BESS helps balance the supply and demand for electricity by storing excess energy when production is high and releasing it when demand is high. This balance is crucial for maintaining a stable and reliable power grid.

Renewable Energy Integration:

By managing the inconsistencies of renewable energy sources, BESS facilitates their integration into the power grid. This integration is essential for transitioning to a more sustainable energy infrastructure.

Grid Stability:

BESS improves grid stability by providing a buffer against fluctuations in power generation and consumption. This stability is vital for preventing blackouts and ensuring a constan power supply.





Components of a Typical BESS

Batteries:

The core component that stores electrical energy. Different types of batteries, such as lithium-ion, lead-acid, and others, can be used depending on the specific requirements and applications.

Power Conversion System:

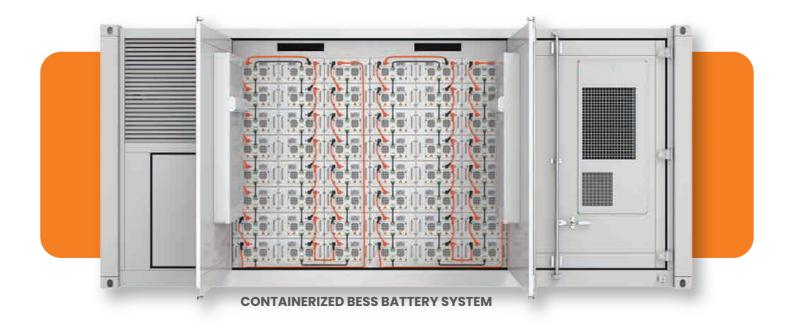
This system includes inverters and converters that manage the flow of electricity between the batteries and the power grid or end-users. It ensures that the stored energy is converted to the appropriate voltage and frequency for use.

Control System:

The brains of the BESS, the control system monitors and manages the operation of the batteries and power conversion system. It ensures optimal performance, safety, and efficiency by controlling charging and discharging cycles and integrating with the broader energy management system.







Function and Benefits of Battery Systems

Energy Storage and Usage:

Battery systems store excess energy generated by solar panels during sunny periods. This stored energy can be used during peak demand hours or when solar generation is not possible, such as at night or during cloudy weather. This capability ensures a continuous and reliable power supply.

Uninterrupted Power Supply:

By providing a backup power source, battery systems help prevent disruptions caused by power outages. This feature is particularly important for critical infrastructure and businesses that require a consistent power supply.

Resilience Against Grid Outages:

Battery systems enhance resilience by acting as a safeguard against grid failures. They ensure that essential services and operations can continue even during extended power outages.

Frequency Regulation:

BESS can provide fast response to grid frequency variations, maintaining stability and efficiency.

Voltage Support:

Assisting in maintaining voltage levels within the desired range, preventing voltage sags and surges.

Black Start Capability:

Enabling the restoration of power to the grid after a blackout without relying on external power sources.



Advanced Topics in BESS

Types of Battery Technologies:

Lithium-Ion Batteries: Known for high energy density, efficiency, and longer cycle life, making them widely used.

Lead-Acid Batteries: Cost-effective with a well-established manufacturing base, but they have lower energy density and a shorter lifespan.

Flow Batteries: Ideal for large-scale storage due to long discharge times and easy scalability.

Sodium-Sulfur (NaS) Batteries: Known for high energy density and efficiency, suitable for large-scale energy storage applications.

Applications Beyond Grid Support.

They enhance energy independence and reliability for both residential and commercial users. Additionally, BESS integrate Electric Vehicle (EV) batteries through Vehicle-to-Grid technology, leveraging EVs as part of the energy storage solution. Moreover, BESS support microgrids and off-grid solutions, ensuring reliable power supply in remote areas and during emergencies.

Economic and Environmental Impact:

They reduce energy costs by peak shaving and load shifting. BESS also contribute to environmental goals by lowering greenhouse gas emissions through increased use of renewable energy sources. Moreover, BESS address the lifecycle management of batteries, including recycling and disposal, to minimize environmental impact.

Technological Advancements and Future Trends:

Solid-state batteries, an emerging technology, offer improved safety and higher energy density. Second-life batteries repurpose used EV batteries for stationary energy storage applications, extending their useful lifespan. Additionally, BESS leverage Artificial Intelligence and Machine Learning to enhance efficiency and predictive maintenance through advanced data analytics.

Safety and Standards:

BESS implement rigorous safety protocols to prevent thermal runaway, overcharging, and other risks. They also adhere to international and local regulatory standards to ensure safe deployment and operation.

Case Studies and Real-World Implementations:

BESS showcase successful deployments worldwide, demonstrating their impact on grid stability, renewable energy integration, and community resilience.



TKS'S Customization & Manufacturing Capabilities



In-house Assembly and Customization:

TKS assembles its own BESS storage systems at its plant in Pretoria. This in-house assembly allows TKS to tailor solutions to meet specific customer needs and requirements, ensuring that each system is optimized for its intended application.

Control Over Lead-times:

By manufacturing the systems locally, TKS can better manage production schedules and lead times. This control ensures timely delivery and deployment of BESS solutions, enhancing customer satisfaction and project efficiency.

Customization Options:

Scalability:

TKS can design BESS solutions that scale from small residential systems to large industrial applications.

Integration with Existing Systems:

Ensuring seamless integration with current solar installations and other renewable sources.

Research and Development:

Innovation Focus:

TKS's commitment to continuous improvement and innovation in battery technology and energy management solutions..



Hydrogen



Hydrogen power utilizes hydrogen gas as a clean energy source, generated through processes like electrolysis with renewables. It's versatile for transport, electricity, and industry, offering emissions-free solutions to combat climate change by being used insted of fossil fuels.



RENEWABLE ENERGY

Renewable sources such as solar, wind, and hydroelectric power can be used to generate electricity, which is then used in the electrolysis process to split water into hydrogen and oxygen.



PRODUCTION

Hydrogen is produced through processes like electrolysis, where water molecules are split into hydrogen and oxygen using electricity, or through reforming processes, where hydrogen is extracted from natural gas or other hydrocarbons.



SOURCE OF WATER

Any source of water can be used for hydrogen energy as long as it's composed of hydrogen and oxygen molecules, which is the case for most water found on Earth.



STORAGE

Once produced, hydrogen needs to be stored for later use. Common methods include compression into high-pressure tanks, liquefaction at very low temperatures, or storage in solid-state materials.



UTILIZATION

Hydrogen can be used in various applications such as fuel cells to generate electricity for vehicles or stationary power generation, in industrial processes like refining or chemical production, or as a direct fuel for combustion engines.





What is green Hydrogen?

Green hydrogen is hydrogen produced using renewable energy sources like solar or wind power to split water molecules, emitting no greenhouse gases in the process.

Grey hydrogen is produced from fossil fuels like natural gas, emitting carbon dioxide as a byproduct.

Blue hydrogen is produced from natural gas with carbon capture and storage technology,reducing greenhouse gas emissions compared to traditional methods.



On Site Hydrogen Power Plant

A hydrogen power plant generates electricity using hydrogen as a fuel source. Here's how it works:

Hydrogen Production: Generates hydrogen on-site or receives it from off-site facilities.

Fuel Storage: Stores hydrogen on-site in tanks or other storage facilities.

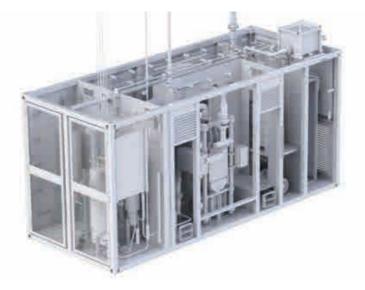
Electricity Generation: Converts hydrogen into electricity using fuel cells or combustion turbines.

Power Distribution: Distributes generated electricity through the power grid to end-users.:

Containerizerd Electrolyser

ELECTROLYSIS PROCESS

Electrolysis is a process that uses electricity to split water into hydrogen and oxygen gases. It involves immersing electrodes in water, applying an electrical current, and collecting the resulting hydrogen and oxygen separately.





All-in-One

Solar and Microgrid Services

TKS provides a full range of services for solar energy systems, including design, installation, maintenance, and emergency repairs. Our certified technicians ensure systems run efficiently, with detailed performance reports available to track energy production and system health. We partner with top insurance providers to offer coverage against damages from disasters and accidents, protecting your investment. Our smart load control systems optimize electricity use and prevent overloads. We also offer advanced microgrid solutions, including the Microgrid Plus, which can work independently or with the main grid, and off-grid networks for complete energy independence.

1. Grid-tied

Solar+Eskom

A grid-tied system is a solar power setup that is connected to the public electricity grid, allowing for the exchange of energy between the solar panels and the grid.

2. Microgrid

Solar+Battery+Eskom

A microgrid with a connection to the public electricity grid, as provided by TKS, is a localized energy system that can operate independently or in conjunction with the main grid, ensuring a reliable and flexible power supply.





3. Microgrid Plus

Solar+Battery+H2 System+ Generator+Eskom

A Microgrid Plus from tks is an advanced localized energy system that not only operates independently or with the main grid but also incorporates additional features such as energy storage, enhanced management capabilities, and increased resilience.















5. Microgrid Network

Solar+Battery+H2 System+ **Generator+Power Lines**

A microgrid network from TKS is a completely off-grid, advanced localized energy system that operates independently from the public electricity grid, ensuring reliable and flexible power supply across the entire facility.

4. Microgrid Plus²

Solar+Battery+H2 System+ Generator+Power Lines+Eskom

A Microgrid Plus with overhead power lines from TKS is an advanced localized energy system that can operate independently or in conjunction with the main electricity grid, providing enhanced reliability and flexibility while ensuring power availability across the entire facility.





A hydrogen fuel cell is a device that turns hydrogen and oxygen into electricity, with water as the only waste. It works by splitting hydrogen into protons and electrons at the anode, and then combining them with oxygen at the cathode to produce electricity and water. As long as there is a constant source of fuel and oxygen, fuel cells will continue to generate power.

Hydrogen storage

FUEL CELL

Oxygen in

Water out

Hydrogen storage involves storing hydrogen gas for later use. Methods include compressing it into tanks, liquefying it, absorbing it into solid materials, using porous carbon-based materials, or storing it in chemical compounds. Each method has its advantages and limitations, depending on factors like energy density and safety.





Hydrogen in

More of Hydrogen

Hydrogen Generator. Clean Energy for the Future

What is a Hydrogen Generator? A hydrogen generator, like the CAT Hydrogen Generator, creates clean energy on-site by splitting water into hydrogen and oxygen using an electrolyzer. Key components include:

- Renewable Power Supply
- Storage Tanks
- Control System
- Distribution System

This setup makes clean energy production possible right on the farm.

Hydrogen: The Future of Farming

Hydrogen is the future of farming because it:

• Produces Clean Energy: From renewable sources, with no emissions.

• Powers Machinery: Efficiently and cleanly.

• Supports Fertilizer Production: Essential for crop growth.

Offers Energy Storage Solutions
 Hydrogen provides 33.6 kWh/kg of energy, compared to diesel's
 10 kWh/kg.

Hydrogen Vehicles: Revolutionizing Farming

The hydrogen-powered Hilux, one of the first hydrogen fuel cell pickup trucks, offers:

- Zero Emissions
- Long Range and Quick Refueling
- Quiet Operation
- High Torque for Heavy Tasks
- Decentralized Fueling: Produce fuel on-site.

Hydrogen vehicles enhance sustainability, efficiency, and reduce the environmental impact of farming.









Solar Engineering



Agricultural Solutions

Our solutions are meticulously engineered to optimize all available resources on the farm, including the innovative use of hydro power. This ensures not only sustainability but also maximized efficiency and productivity. By incorporating cutting-edge micro-grid technology, we offer complete off-grid designs that empower farms to operate independently and reliably.

TKS proudly supports the agricultural community with dedicated offices in key regions across South Africa, including Lydenburg, Mbombela, Pietermaritzburg, Vryheid, Cradock, Port Elizabeth, and George. This extensive network allows us to provide localized expertise and rapid support whenever needed.

Our commitment to excellence extends to our advanced off-site monitoring, powered by the Schneider Insight platform. This technology enables us to conduct pre-emptive maintenance, ensuring your plant remains in peak health and maximizing uptime. With TKS, you can trust that your agricultural operations are in capable hands, backed by state-of-the-art technology and a passionate support team.



Commercial Solar Systems

TKS provides advanced commercial solar systems that help businesses take control of their energy use. Our solutions work for various industries, including retail stores, warehouses, factories, and office buildings.

With our solar systems, businesses can cut down on energy costs, which helps improve profits.

This allows you to use your resources better and invest in growth.

Our solar systems are designed to be highly efficient and reliable, ensuring your energy needs are met in a sustainable and cost-effective way. We offer full support from the initial consultation and system design to installation and ongoing maintenance.

Choosing TKS means investing in a future where your business can grow while also helping to create a greener, more sustainable world. Let us help you use solar energy to move your business forward.





Monitoring & Maintenance

We offer comprehensive real-time monitoring for all our sites through the advanced Schneider Insight Cloud platform.

Our state-of-the-art control center diligently tracks your installation's performance, identifying potential issues before they become problems. By instituting preemptive maintenance measures, we ensure your plant remains healthy and operational with maximum uptime.

Understanding that each plant has unique needs, we provide a range of tailored maintenance plans. These plans are designed to cater to the specific requirements of your plant, ensuring optimal performance and efficiency.

Our team of experts is dedicated to maintaining the highest standards of service, giving you peace of mind that your plant is in good hands. With our proactive approach and customized maintenance solutions, you can focus on your core operations while we take care of the rest.



(EAAS) WITH TKS SOLAR GROUP

ENERGY AS A SERVICE

• • • •

Unlocking Sustainable Energy Solutions for Businesses

WHAT IS EAAS?

Energy as a Service (EaaS) is a forward-thinking model that allows businesses to harness solar energy without the burden of upfront costs. TKS Solar Group offers EaaS solutions tailored to meet the unique needs of their clients.

HOW DOES EAAS WORK?

Lease Option:

- Businesses can lease solar panels from TKS Solar Group.
- Monthly payments cover the cost of the solar system.
- No capital investment required upfront.

Power Purchase Agreement (PPA):

- TKS installs and maintains the solar system on the client's premises.
- The client purchases the energy generated at an agreed-upon rate.
- Only pay for the energy consumed

BENEFITS OF TKS SOLAR'S EAAS

Cost Savings: Reduce electricity bills and operational expenses.

Financial Benefits: Unlock long-term financial advantages through incentives and tax credits.

Efficiency: Optimize energy production and consumption for increased efficiency. **Sustainability:** Contribute to a greener future by adopting renewable energy.





Schneider Solar Distribution

BY TKS SOLAR

We're proud to be the exclusive distributor of Schneider Solar products and energy storage systems in Southern Africa. Our network of Channel Partners plays a crucial role in bringing sustainable energy solutions to communities across the region. If you're an installer or system integrator interested in joining our network, sign up today! And don't forget to explore our product training opportunities at our on-site center. Let's power a brighter future together!.

Schneider Products

GRID-TIED

STRING INVERTER CL50



COMMUNICATIONS/ENERGY MANAGEMENT

INSIGHT HOME/FACILITY



HYBRID INVERTERS

HOMAYA 1500

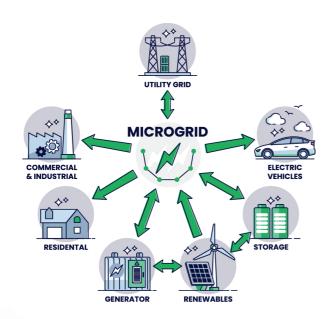




Microgrids & Ecostruxure

Solar Microgrid

A solar microgrid is a self-contained energy system that combines solar panels, energy storage (like batteries), and smart control systems. It operates independently or alongside the main grid, providing electricity to specific areas or communities. The advanced control systems manage energy production, demand, and storage, ensuring efficient distribution within the microgrid. TKS, a certified Schneider Microgrid and Ecostruxure™ Partner, specializes in advanced energy solutions. If you need high-quality solar microgrid services, TKS is the right choice!



Solar microgrids are used in remote or off-grid locations where the main power grid isn't accessible. These microgrids supply electricity to small communities, rural areas, and individual buildings. Beyond improving energy access, they have other advantages: less reliance on fossil fuels, reduced greenhouse gas emissions, better resilience during power outages, and cost savings by avoiding extensive grid infrastructure.



Introducing Villaya Flex

The Villaya Flex is a packaged microgrid solution designed to maximize clean energy use while reducing pollution from diesel generators. It is easy to size, order, commission, operate, and maintain, with scalable battery storage.







Key Benefits of Villaya Flex:

Clean Energy and Reduced Costs:

- Maximizes solar energy use.
- · Reduces diesel generator fuel consumption.
- Lowers operational costs with remote monitoring.

Community and Economic Benefits:

- Supports micro-enterprises, schools, hospitals, and agriculture.
- Provides reliable energy for essential services like vaccine storage.
- Engages local contractors, boosting local economies and skills.

Ease of Installation and Maintenance:

- Pre-tested and validated solutions simplify design and commissioning.
- Centralized inverter topology reduces installation costs.
- Standardization makes training and troubleshooting easier.

Sustainability and Resilience:

- Optimizes renewable resources and battery storage.
- Minimizes reliance on diesel generators, lowering CO2 emissions.
- Ensures smooth transitions between energy sources, preventing blackouts.





Advanced Features of Villaya Flex:

Battery Storage:

Standard modules with a capacity of 5.68 kWh, scalable up to 107.98 kWh. Energy Control Center: Manages multiple energy sources with intelligent Power Management Systems. Hybrid Power Conversion Unit: Bi-directional unit with integrated MPPT and AC-DC modules.

EcoStruxure™ Software:

Microgrid Advisor for energy production management. Energy Access Expert for demand-side management.

Specifications:

DC Parameters: Battery voltage range 250-520Vdc, max DC current 150A. PV Parameters: Max open circuit voltage 900Vdc, voltage range 520-800Vdc, max DC current 192A.

AC Parameters: Output voltage 400V, output power up to 100kVA, frequency 50/60Hz.

Partnering for Success:

Our EcoXperts™ program partners with local experts to design, sell, and implement microgrid solutions tailored to your needs. They leverage local market knowledge and expertise with our solutions to ensure the best outcomes.



High Voltage Lithium Battery Storage System



The Powercube M2A180 is a high-voltage lithium battery storage system designed by Pylontech to provide reliable energy storage for residential, commercial, and industrial applications. This system ensures efficient energy management and backup power, enhancing the performance of solar energy systems.

Key Features:

High Energy Density: The M2A180 offers a high energy density, maximizing storage capacity within a compact footprint.

Scalability: The modular design allows for easy expansion, supporting up to 10 modules in parallel, enabling flexibility to meet varying energy demands.

Long Lifespan: With a lifespan of over 15 years and more than 6000 charge/discharge cycles, the M2A180 ensures long-term reliability.

Safety: The system incorporates advanced safety features, including multiple protection mechanisms for overcharging, over-discharging, and thermal management. **High Efficiency:** The M2A180 boasts a high round-trip efficiency, ensuring minimal energy loss during the charging and discharging process.

Residential: Enhance solar energy systems, providing backup power during outages. **Commercial:** Optimize energy use, reducing demand charges and ensuring continuity of operations.

Industrial: Support large-scale energy storage needs, improving energy efficiency and sustainability.

Advantages:

Modular and Scalable: Easy to customize based on energy needs, allowing for future expansion.

Reliable and Safe: Proven track record of performance

and safety, ensuring peace of mind. **Cost-Effective:** Reduces energy costs by maximizing the use of solar power and minimizing reliance on the

The Powercube M2A180 by Pylontech is an excellent choice for those looking to integrate a

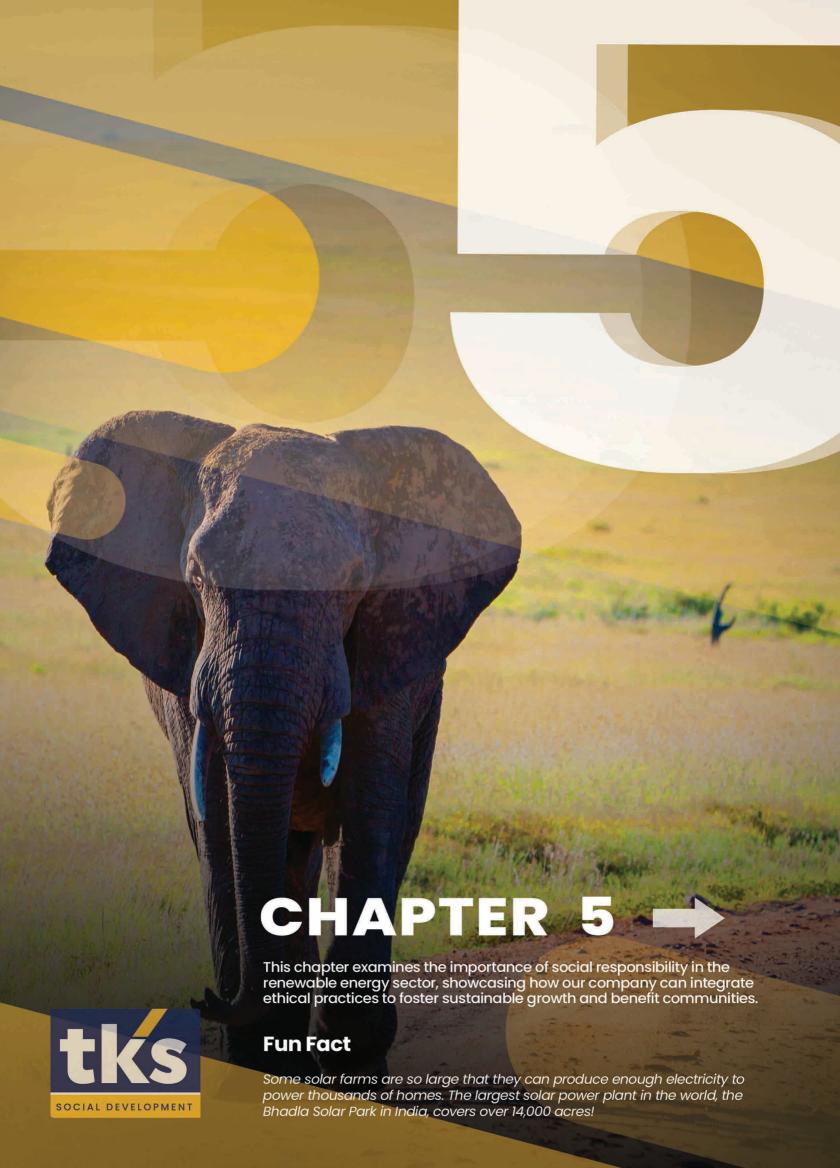
high-voltagelithium battery storage system into their solar energy solutions. Its combination of high efficiency, scalability, and safety makes it ideal for a wide range of applications.







grid.



Social Responsibility

Our Commitment to Social Responsibility

At TKS Solar Engineering, we believe in making a positive impact on both our planet and our community. Here's how we are dedicated to social responsibility:

Caring for the Environment:

We are passionate about reducing carbon footprints and promoting clean, renewable energy. By providing solar energy solutions, we help minimize environmental impact and support a sustainable future.

Supporting Our Community:

We engage in activities that benefit our local community. This includes educational programs about renewable energy, supporting local charities, and participating in community development projects.

Looking After Our Employees:

Our team is our greatest asset. We ensure good working conditions, fair wages, and opportunities for growth and development. We are committed to our employees' well-being.

Innovation and Education:

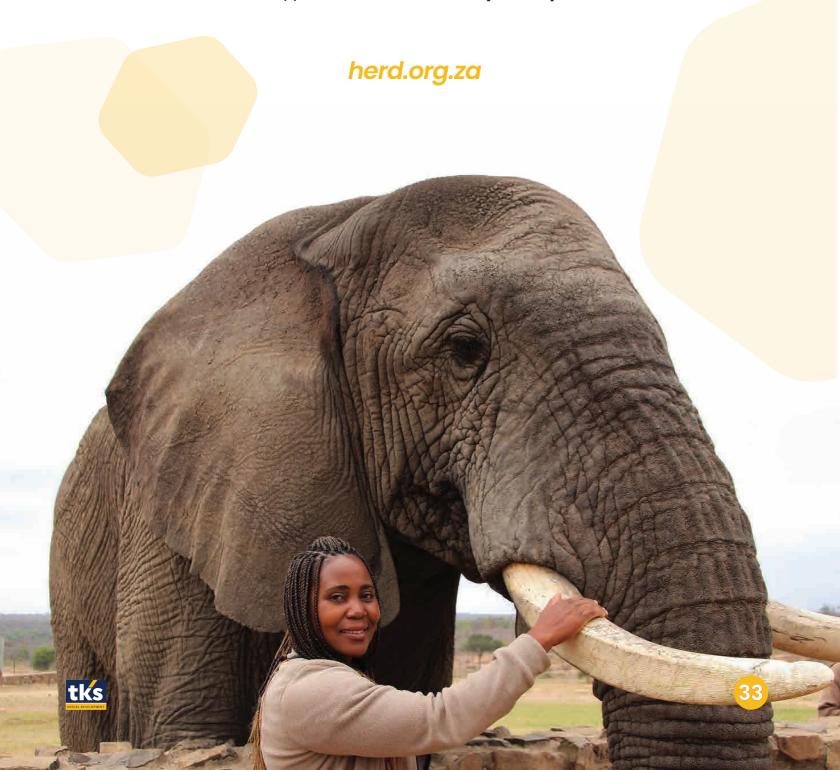
We are dedicated to advancing solar technology and making it accessible to everyone. We also focus on educating the public and other businesses about the benefits of solar energy and how they can implement it.

At TKS Solar Engineering, our goal is to create a brighter, cleaner future for all. Together, we can make a difference.



Herd Elephant Orphanage

Presently, our focus lies on supporting one of the most vulnerable species, the African Elephant. Within the confines of HERD Elephant Sanctuary, orphaned elephants receive compassionate care and nurturing until they are ready for reintroduction into their natural habitat. However, this endeavor necessitates dependable power infrastructure. Regrettably, the current power grid is unreliable and costs are prohibitive. We aspire to transition HERD Elephant Sanctuary away from dependence on the conventional grid, but achieving this objective requires collaborative support. *Therefore, we need your help!*





LET'S DO BUSINESS TOGETHER

