



Solar Division

Your Energy Solutions Specialist 

Energy Independence

Switch to Smart-Tech Energy Solutions

Smart Tech Energy Solutions is a leading innovator in sustainable energy solutions. Committed to shaping a greener and more efficient future, we leverage cutting-edge energy technology to deliver tailored, client-centric solutions for both residential and corporate needs.

Whether you are a homeowner seeking energy independence or a business aiming to enhance your efficiency, our range of services is designed to meet your unique requirements toward a more sustainable, energy-efficient future.



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COMPANY

PROFILE



About Smart-Tech

Who we are?

Smart Tech Energy Solutions is a leading provider of innovative and sustainable energy solutions in South Africa. We empower homes, businesses, and communities to embrace a brighter future by harnessing the power of the sun, waste-to-energy technology, and cutting-edge smart automation.

Our Mission:

Our mission is to accelerate the transition to clean energy by offering accessible, reliable, and efficient solutions that meet the diverse needs of our customers.

We are passionate about creating a cleaner, greener future for generations to come.



About Smart-Tech

Our Values

Innovation

We constantly strive to develop and implement cutting-edge technologies that redefine the energy landscape.

Sustainability

We believe in preserving the environment for future generations, driving our commitment to renewable energy solutions.

Integrity

We conduct business with honesty, transparency, and ethical practices, building trust with our customers and partners. a sustainable future.

Excellence

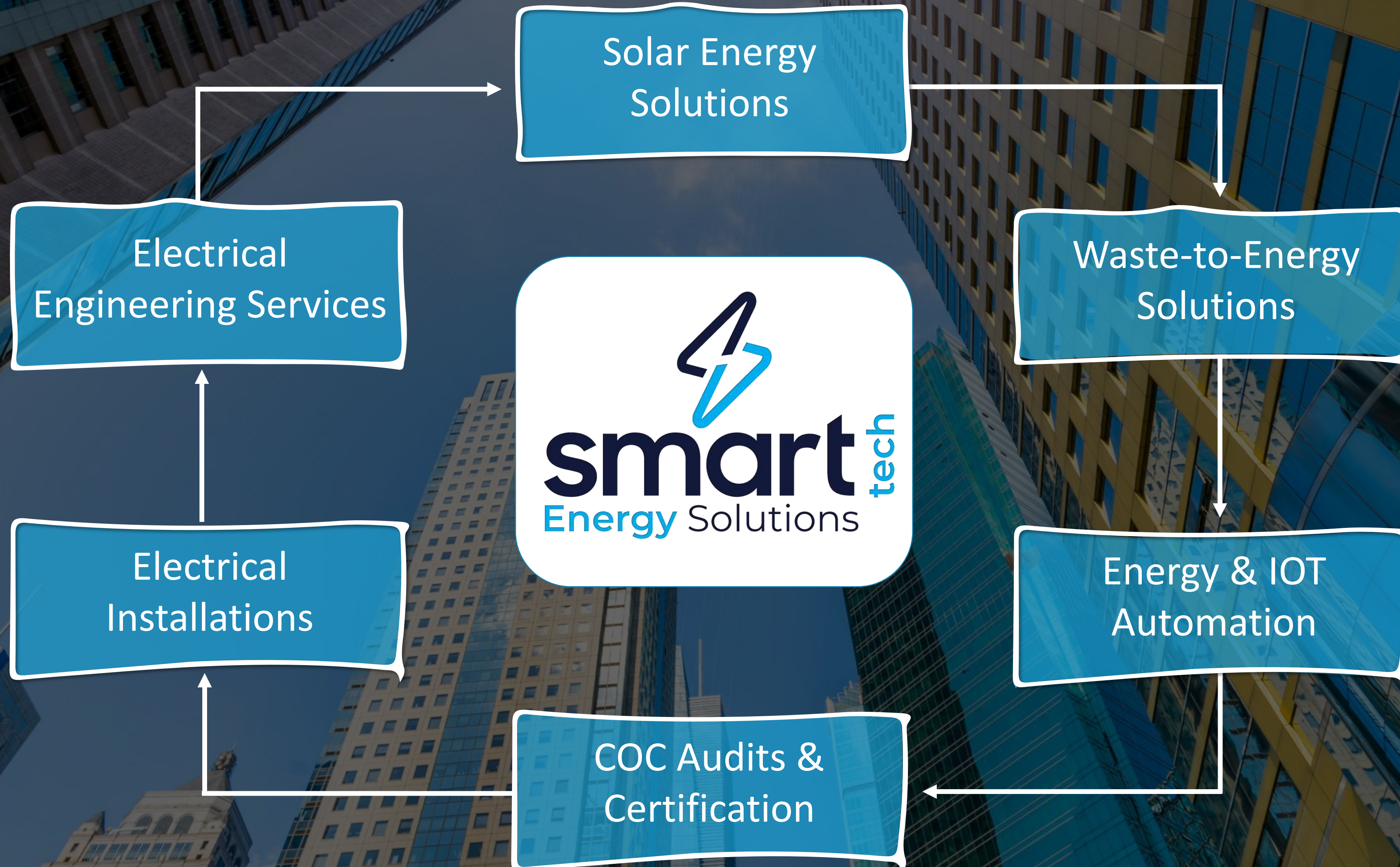
We are dedicated to delivering exceptional service and exceeding customer expectations at every touchpoint.

Community

We actively engage with and contribute to the communities we serve, fostering a sense of shared responsibility for a sustainable future.



Our Strategic Services & Offerings



YOUR SMART ENERGY SOLUTIONS PROVIDER

**We Understand South
Africa's Energy Crises and
proactively develop
Affordable Renewable
Energy Solutions**



About Smart-Tech

Our Expertise

At the core of our success is a **multidisciplinary team** comprising professional electrical engineers, skilled electricians, IoT developers, industrial designers and engineering draftsman. Together, we form a **dynamic force, blending technical prowess with creative innovation** to deliver solutions that surpass expectations.

01 Solar Energy Solutions

We are experts in **designing, installing, and maintaining solar energy** systems for all types of residential, commercial, and industrial applications.

02 Waste-to-Energy

We offer advanced **waste-to-energy technologies that convert waste into clean energy**, reducing environmental impact and generating renewable power.

03 Energy Automation

We integrate smart technologies into your **energy systems for optimal efficiency, control, and energy savings**.

04 Electrical Services

Our team of skilled electricians provides a **wide range of electrical services** to ensure the safe and efficient operation of your energy systems.

05 Design Engineering

Our team of experienced designers and engineers develop **customised energy solutions tailored to your specific needs and budget**.



About Smart-Tech

Social Responsibility

We take pride in our vibrant organisational culture, fostering an environment of collaboration, creativity, and inclusivity. Our team is not just a collection of individuals; we are a community united by a common passion for advancing clean energy solutions.

Investing in Our People:

At Smart Tech Energy Solutions, we recognise that our biggest asset is our team. That's why we are dedicated to fostering a culture of continuous learning and development for all our employees. We believe that by investing in their skills and knowledge, we are not only enriching their lives but also empowering them to contribute to the success of our company and drive the transition to a cleaner future.

At Smart Tech Energy Solutions, we believe that investing in our employees is an investment in the future, empowering our team to learn, grow, and reach their full potential, we are building a stronger, more innovative company.



We offer a comprehensive employee development and training programs

- Onboarding and induction programs
- Technical and professional skills training
- Leadership development programs
- Personal and professional development opportunities
- Career development planning



Client Testimonials

Dear Smart Tech team,

It is with great satisfaction that I write this letter of reference for Smart Tech, who has provided exemplary solar installation services for Loneland.

Their unwavering commitment to quality and excellence has firmly established them as our top choice for solar solutions.

Smart Tech has consistently delivered outstanding results on all our projects. They use cutting-edge equipment and ensure precise execution, resulting in installations that are both reliable and efficient.

The team at Smart Tech operates with the highest level of professionalism, maintaining effective communication, adhering to project deadlines, and ensuring a transparent process that builds trust and reliability.

Smart Tech's extensive knowledge and innovative approach to solar technology have greatly benefited Loneland.

They offer customized solutions that maximize energy production and cost savings, showcasing their deep industry expertise. The service experience with Smart Tech has been exceptional; they are responsive, attentive to our needs, and proactive in addressing any issues, ensuring a smooth and positive experience.

Smart Tech has consistently met and exceeded our expectations, completing projects on time and within budget. Their dependability makes them a trusted partner for our solar initiatives.

Due to their outstanding work and dedication, we unreservedly recommend Smart Tech for any energy installation project.

Their commitment to quality and customer satisfaction positions them as a leader in the industry. We look forward to continuing our successful collaboration with Smart Tech and are confident in their ability to deliver excellent results on future projects.

Roche van der Walt
Loneland
Director

Client Testimonials

Dear Smart Tech team,

Thank you so much for your incredible hard work and the excruciatingly long hours you spent here (weekend included!) installing the solar panels and getting the system up and running!

It is such a blessing and will definitely positively change our quality of life and significantly reduce our stress levels!

Many thanks also to your families for their sacrifices, so that we may enjoy the benefit of this fantastic convenience.

Your patience, effort and kindness, as well as the fact that you left everything so tidy every night, is really appreciated.

Rachel Grunewald

Residential Customer (30kWp)

Dear Smart Tech team,

I am pleased to endorse Smart Tech Energy Solutions for their excellent solar installation at Quicksure's Brakpan office. Their commitment to quality and professionalism made a real difference for us.

Smart Tech's team provided a dependable installation with top-notch equipment, met all deadlines, and communicated clearly. Their innovative solutions have greatly improved our energy efficiency and cost savings.

Their customer service is outstanding; they responded quickly to any concerns and completed the project on time and within budget.

We highly recommend Smart Tech for any solar installations.

SHAHEEN RAJAB

Quicksure

CEO



Client Testimonials

Dear Smart Tech team,

I am pleased to write this letter of reference for Smart Tech, a company that has consistently demonstrated excellence in the field of solar installations. As Ecospan's preferred solar company, Smart Tech has completed numerous projects for us with the utmost professionalism and quality.

Throughout our collaboration, Smart Tech has showcased an exceptional level of expertise and dedication. Their team has consistently provided top-tier service, from the initial consultation and design phase through to installation and post-installation support. Each project was executed with a keen attention to detail, ensuring that our specific requirements were met and often exceeded.

In particular, we would like to highlight the following aspects of Smart Tech's performance:

1. Quality of Workmanship: The solar installations carried out by Smart Tech were completed to the highest standards. The equipment used was of superior quality, and the installations were carried out efficiently and meticulously.

2. Professionalism: The team at Smart Tech has always conducted themselves with professionalism and integrity. They maintained clear and open communication throughout the project timelines, ensuring that we were kept informed at every stage.

3. Reliability: Smart Tech has proven to be a reliable partner, adhering to project schedules and delivering on their commitments without exception.

4. Customer Service: The customer service provided by Smart Tech is exemplary. They are responsive to queries and proactive in addressing any concerns, ensuring a smooth and hassle-free experience for us.

5. Innovation: Smart Tech brings innovative solutions to the table, optimizing our solar installations to maximize efficiency and cost-effectiveness.

Due to their outstanding performance, we have no hesitation in recommending Smart Tech for any solar installation projects. We look forward to continuing our successful partnership with Smart Tech and are confident that they will continue to deliver exceptional results.

Lerina van der Walt

Ecospan

Operations Manager

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ENERGY

Solutions



Powering the Future with Sustainable Energy Solutions

At Smart Tech, we stand as pioneers of innovation in the solar industry, specialising in advanced solutions tailored for commercial, industrial, and residential sectors. Our commitment to harnessing the sun's energy is matched only by our dedication to IOT Automation. We are driving a revolution where solar brilliance meets cutting-edge technology, creating a brighter, more sustainable future.

In the commercial, industrial, and residential landscape, our solar solutions are more than just panels; they are gateways to efficiency and sustainability.

We **redefine energy independence** by innovating solar installations that power businesses, factories, and homes, reducing operational costs while minimising environmental impact.



Solar Energy Sectors



Residential Energy Solutions

At Smart Tech Energy, we believe your home can be transformed where we bring the power of sustainable energy directly to your home. Our residential energy solutions are designed to transform your living spaces, providing you with clean, reliable, and cost-effective alternatives for a greener tomorrow.



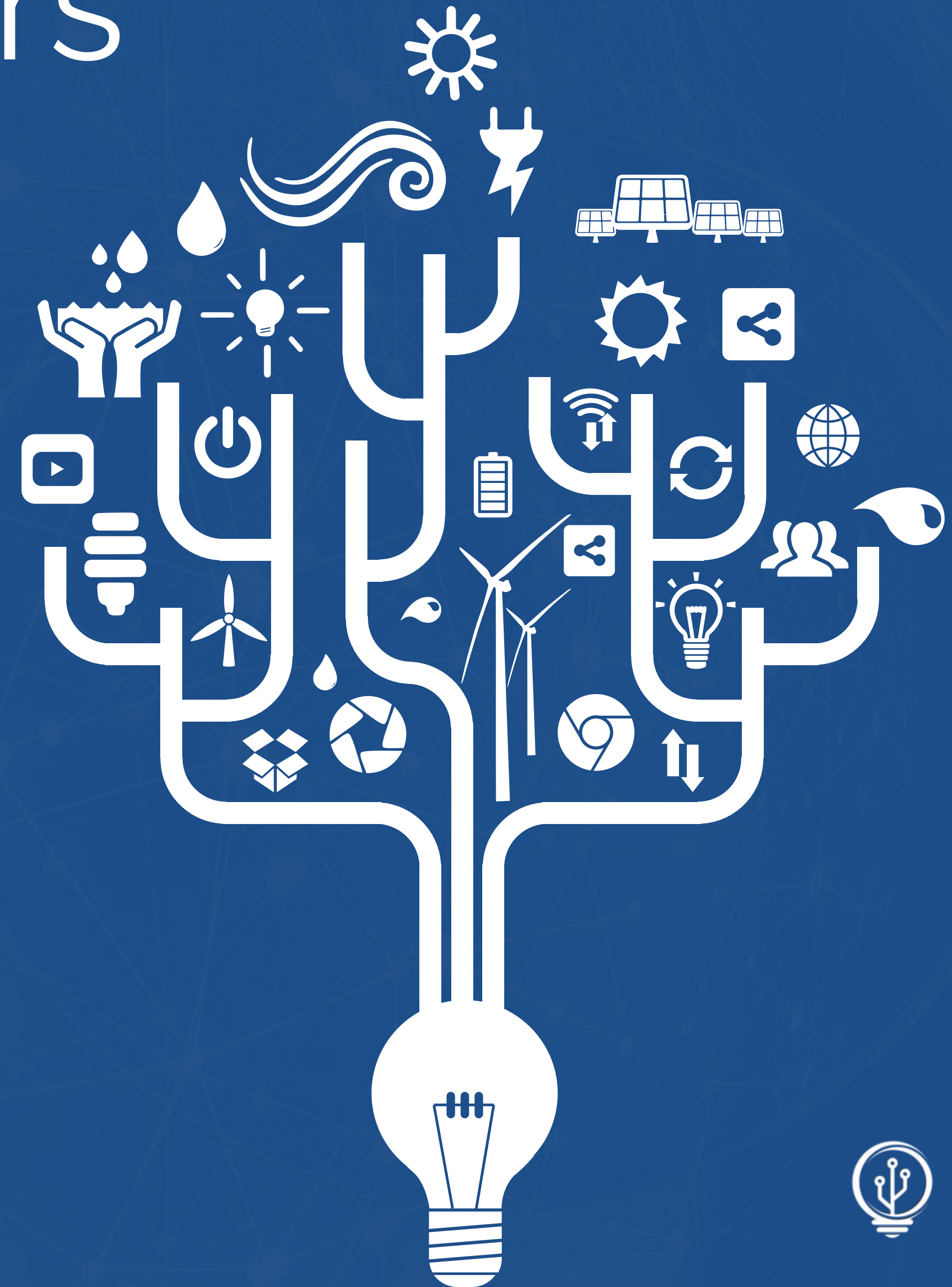
Commercial & Industrial Solutions

At Smart Tech Energy, we understand the unique energy challenges faced by businesses of all sizes. From rising energy costs to a growing demand for sustainability, you need solutions that are reliable, efficient, and tailored to your specific needs. That's where our expertise in commercial and industrial energy solutions comes in.



Farming & Agricultural Energy Solutions

At Smart Tech Energy, we understand the unique challenges and opportunities faced by the agricultural sector. Rising energy costs, water scarcity, and environmental concerns are placing increasing pressure on farms. That's why we offer a range of innovative agricultural energy solutions designed to improve efficiency, reduce costs, and promote sustainable practices.





Residential, Agricultural, Commercial & Industrial Energy Solutions

At the core of our success is a multidisciplinary team comprising professional electrical engineers, skilled electricians, IoT developers, industrial designers, and engineering draftsman. Together, we form a dynamic force, blending technical prowess with creative innovation to deliver solutions that surpass expectations.



Solar Energy Sectors



Mining Energy Solutions

In the demanding world of mining, reliable and efficient energy is vital for success.

But rising costs and environmental concerns call for innovative solutions.

At Smart Tech Energy, we bridge the gap between power-hungry operations and sustainable practices with tailor-made mining energy solutions.



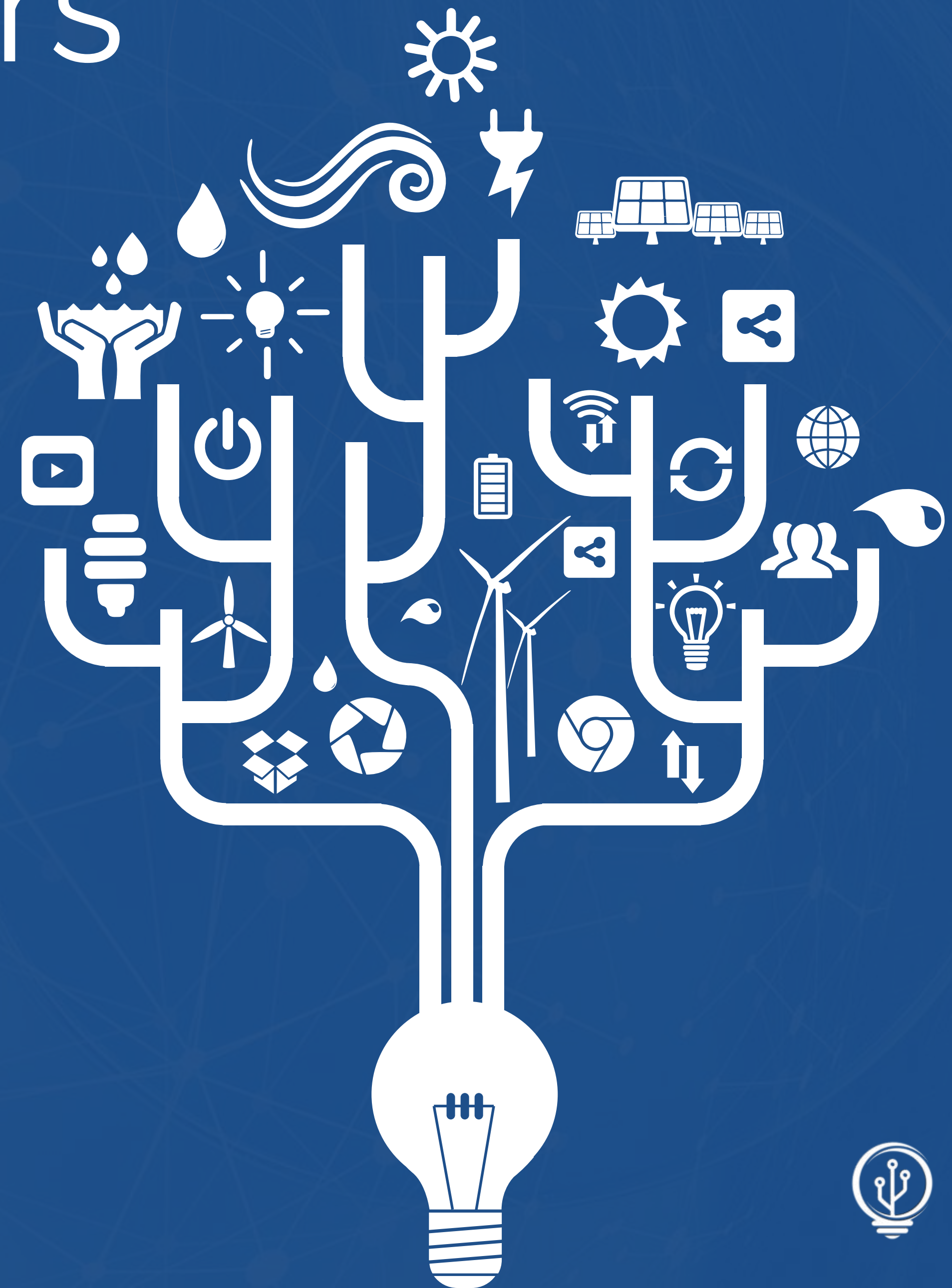
Remote Container Retail Solutions

Smart Tech redefines energy access with its transformative Remote Container Solutions. These robust units help equip remote locations with a comprehensive solar power ecosystem, enabling independent and sustainable energy generation. Featuring integrated designed mechanism for solar panels and secure battery storage, and monitoring management systems.



Dual Axis Energy Solutions

This advanced tracking system optimises energy capture by up to an additional 40%, ensuring peak performance throughout the day. This technology follows the sun's trajectory throughout the day, optimising energy capture through technical intricacies associated with peak energy performance, thus making dual-axis solutions the pinnacle of solar energy utilisation.





Mining, Remote Retail & Dual Axis Energy Solutions

At the core of our success is a multidisciplinary team comprising professional electrical engineers, skilled electricians, IoT developers, industrial designers, and engineering draftsman. Together, we form a dynamic force, blending technical prowess with creative innovation to deliver solutions that surpass expectations.



Roof Mounting Solutions

Our Expertise

Smart Tech Energy Roof Mounting Solutions transform your rooftop into a sun-powered powerhouse.

Our bespoke steel and aluminum structures, engineered for strength and durability, secure your solar panels at optimal angles for maximum energy capture. We cater to any roof type, from flat to complex, with innovative mounts that adapt to your unique architecture.

Enjoy expert installation, minimal visual impact, and peace of mind knowing your investment is securely anchored against even the harshest weather.

1



Carport Mounting Solutions

Our Expertise

Maximize your solar potential and utilize unused space with Smart Tech Energy's high-performance Carport Mounting Solutions.

Our customisable, fabricated steel or aluminum structures boast weather-resistant strength, adaptable tilt angles for optimal sun exposure, and integrate seamlessly with various solar panels and battery systems.

Enjoy the dual benefit of shaded parking and clean energy generation, all while enhancing your property value and minimizing ground space usage.

2



Grid-Tied Solar PV

Our Expertise

The solution architecture of Grid-Tied Solar PV systems, seamlessly integrated into existing grids.

This technology facilitates the generation of clean energy for residential and commercial applications, simultaneously offsetting electricity costs and decreasing dependence on the conventional power grid.

Grid tied solar solutions are cost-effective and assist with energy independence.

3



Grid-Tied Solar Battery Storage

Our Expertise

This solution enhances the conventional grid-tied model by incorporating Battery Energy Storage.

This advanced configuration enables the capture and storage of surplus solar energy, ensuring near-complete energy independence during periods of low or no solar generation.

With load shedding increasing in South Africa, we can optimise your energy consumption with our autonomous solar power solution.

4



Ground Mount and Mining

Our Expertise

This solution is tailored for large-scale applications, especially in mining and agriculture.

Ground Mount solutions optimise energy efficiencies using expansive spaces, catering to the power-intensive needs of heavy machinery.

This technology minimizes reliance on conventional energy sources, providing cost-effective electricity for remote operations and helps reduce the environmental impact of mining activities.

5



Single Axis Solar Tracking

Our Expertise

Our Single Axis tracking systems are designed to make solar panels follow the sun's movement along a single axis, optimizing energy capture by an additional 20%.

This technology is particularly useful in places where the sun moves from east to west, maximizing efficiency and transforming rooftops into smart solar tracking platforms.

It's a simple way to get more energy from the sun.

6



Dual Axis Solar Tracking

Our Expertise

Discover the innovation of Dual Axis tracking, where solar panels follow the sun along two axes.

This advanced system optimizes energy capture by up to an additional 40%, ensuring peak performance throughout the day.

This intricate system follows the sun's trajectory throughout the day, optimizing energy capture through technical intricacies associated with peak energy performance, thus making dual-axis solutions the pinnacle of solar energy utilisation.

Dive into the details and understand why dual-axis solutions are at the forefront of maximizing solar energy utilisation.

7



Container Solutions

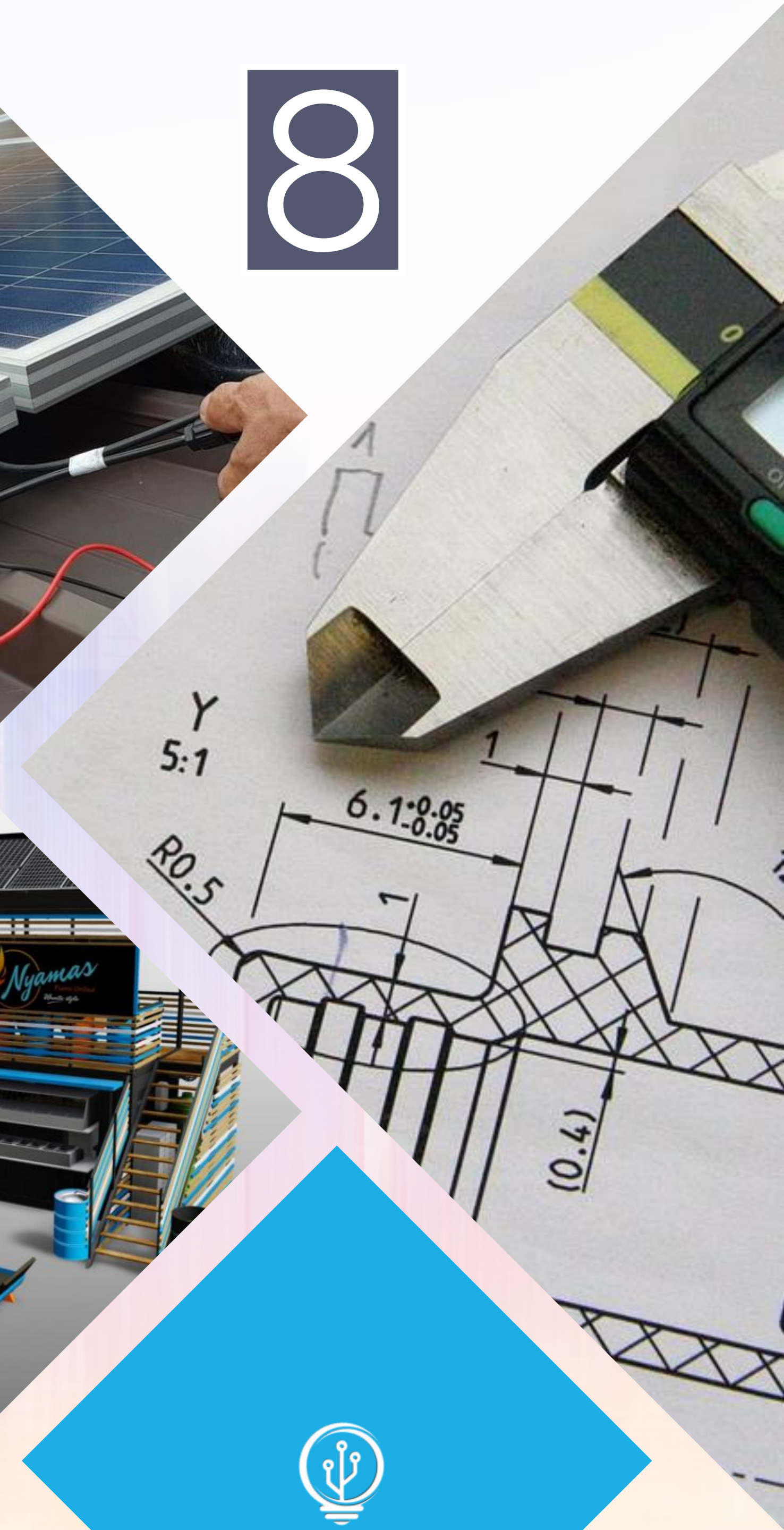
Our Expertise

Our industrial design and engineering division have developed a scalable solar energy technology solution for containers based on our modular methodology.

These containers are pre-configured with solar systems, ready to be assembled for businesses and homes.

Designed for quick deployment and energy flexibility, these solutions give you instant access to clean energy, providing a self-contained power setup designed to meet your needs.

8



Bespoke Solutions

Our Expertise

Our bespoke energy solutions are designed and developed to meet your unique needs and specific challenges at your location.

Our engineering experts handle all the complex requirements, addressing issues like irregular roof shapes, shading constraints, and your specific energy requirements.

Experience the technical expertise behind the seamless integration and top-notch performance of our tailored energy solutions.

9



Operations and Maintenance

Maximize Your Solar Investment with Smart Tech O&M

Your solar **PV system** represents a **significant investment**, and you deserve to see maximum returns. At Smart Tech Energy, we understand that. That's why we **offer comprehensive Operations and Maintenance (O&M) services** designed to keep your system operating at peak performance throughout its lifespan.



Solar Finance

Shine Brighter, Pay Smarter

Are you tired of escalating electricity bills and the challenges of load shedding? Smart Tech has the solution for you: affordable solar power that not only addresses your concerns but also starts saving you money from day one.

Go Solar, Go Independent:

Embrace complete energy independence for yourself and your family by opting for our solar solutions. With simple and affordable financing, achieving energy autonomy has never been more accessible.

Reduce your electricity costs:

Experience a significant reduction in your electricity costs with every ray of sunshine. Enjoy the benefits of not being totally dependent on Eskom as you welcome sustainable energy savings into your life.

Boost Your Property Value:

Invest in a solar system that not only provides returns on your investment but also enhances the value of your home. Our quality panels, coupled with warranties, ensure a practically maintenance-free experience.



Fully Funded Solution

Power Purchase Agreement (PPA)

Our PPA offering is a popular choice among business, commercial and industrial consumers, owing to the fact that the installation, operation and maintenance of the system is fully covered by the funding model.

Most often, this funding mechanism includes insurance and performance guarantees, with depending on the technical solution offered, the biggest advantage being reduced electricity costs.

This allows business owners to enjoy the benefits of clean energy from a solar PV system installed at their premises, at no upfront cost allowing for other in-house projects to be initiated by the business.

“A PPA includes the installation of a fully operating solar system, but removes the hassle of having to maintain, monitor, operate and clean the system for years to come. Business owners can now enjoy solar energy and the savings it will generate with zero capital expenditure or operating risks.”

Following the signing of a long-term agreement, a solar tariff is billed monthly, based solely on the amount of energy the business consumes. This tariff increases annually at a fixed escalation, allowing businesses to accurately predict future energy costs.

Businesses that use large amounts of daytime power and operate five to seven days a week are likely to generate the highest savings from this funding model.

While ownership of the solar system will remain with the service provider, until the end of the agreement. Business owners have the option to purchase the system during the term of the agreement.



Financed Options

Business & Commercial

Our finance partners specialise in offering a range of financing solutions meticulously designed to suit the needs of small to medium-sized solar projects

These financing options are structured to accommodate different scales of installations, ensuring accessibility and flexibility for a diverse range of clients.

With a keen focus on affordability and sustainability, our partners extend competitive interest rates that remain attractive over a variety of repayment terms.

Whether you're embarking on a modest business solar installation or implementing a medium-sized commercial solar project, our partners stand ready to provide the financial support necessary to bring your vision to fruition. Their expertise in solar financing ensures that you receive tailored solutions that align with your budgetary requirements and long-term objectives, empowering you to embrace renewable energy with confidence and ease.

As an integral component of your installation from Smart-Tech, a comprehensive maintenance agreement will be included, ensuring the system operates at peak performance levels. This agreement encompasses regular upkeep and servicing, guaranteeing optimal functionality and longevity of the solar-energy system. By adhering to this maintenance agreement, you can rest assured that your investment will continue to yield maximum efficiency and reliability over time.

Additionally, your systems will seamlessly integrate with our partners carbon credit verification system, enabling real-time tracking of carbon avoidance metrics.



Financed Options

Residential

Our finance partners stand ready to facilitate the procurement of a solar-energy solution ensuring a reliable, secure, and efficient process for your residential property.

This unique offering encompasses independent asset financing, which stands apart from any existing home loan agreements currently held by clients.

Clients have the opportunity to explore financing options that extend to customizable periods, allowing you to benefit from competitive interest rates.

This empowers you to embrace sustainable energy solutions while relishing adaptable repayment terms tailored precisely to your requirements.

As an integral component of your installation from Smart-Tech, a comprehensive maintenance agreement will be included, ensuring the system operates at peak performance levels.

This agreement encompasses regular upkeep and servicing, guaranteeing optimal functionality and longevity of the solar-energy system.

By adhering to this maintenance agreement, you can rest assured that your investment will continue to yield maximum efficiency and reliability over time.



3



ELECTRICAL

Services



Powering Progress

Your Electrical Installation & Certification Partner

Smart Tech Energy delivers comprehensive electrical solutions with and unwavering commitment to quality.

We empower your projects through **technical design, meticulously translating your requirements into efficient electrical systems.**

Whether your needs span single-phase homes or complex industrial networks, our technical team will ensure a seamless integration with existing infrastructure and future needs.

Our skilled technicians **execute installations with precision**, adhering to safety standards and regulatory compliance.



We handle every stage of your project, from the **initial planning to final connections**, we guarantee efficient completion meeting all your energy requirements.



Electrical Services

Your Installation Partner

While solar energy empowers your transition to sustainable living, a complete electrical infrastructure ensures seamless integration and maximized efficiency. Smart Tech extends its expertise beyond solar solutions, offering a comprehensive suite of value-added electrical services to complete your green energy journey.

Our expert electricians handle all aspects of your electrical needs, including:

Single and 3-Phase Wiring:

Whether your project requires simple single-phase installations or complex 3-phase setups for larger requirements, our professionals handle them with precision and adherence to strict safety regulations.

DB Wiring:

From meticulous design and installation of distribution boards to ensuring optimal load balancing and circuit protection, we guarantee secure and efficient power distribution throughout your system.



Electrical Services

Your Installation Partner

Additional Wiring Services:

We cater to all your additional electrical needs, from installing surge protectors and grounding systems to setting up dedicated circuits for appliances and equipment. No task is too big or too small.

COC Certification:

We understand the importance of compliance. Our team guides you through the COC (Certificate of Compliance) process, ensuring your system meets all regulatory requirements and operates safely.



Electrical Services

Why Choose Smart Tech?

Expertise

Our team boasts extensive experience with solar electrical installations, ensuring seamless integration and optimal performance of your complete system.

Safety

We prioritise safety above all else, adhering to the highest industry standards and regulations to guarantee the protection of your property and people.

Quality

We use only the best materials and equipment, ensuring reliable and long-lasting electrical infrastructure.

Convenience

From the initial consultation to the final inspections, we handle everything, making your project smooth and hassle-free.

One-Stop Shop

Enjoy the convenience of having all your electrical needs met by a single trusted partner, streamlining your project and saving you time and money.

Partner with Smart Tech Energy for your comprehensive electrical infrastructure solutions that perfectly complement your solar energy system and unlocks its full potential.

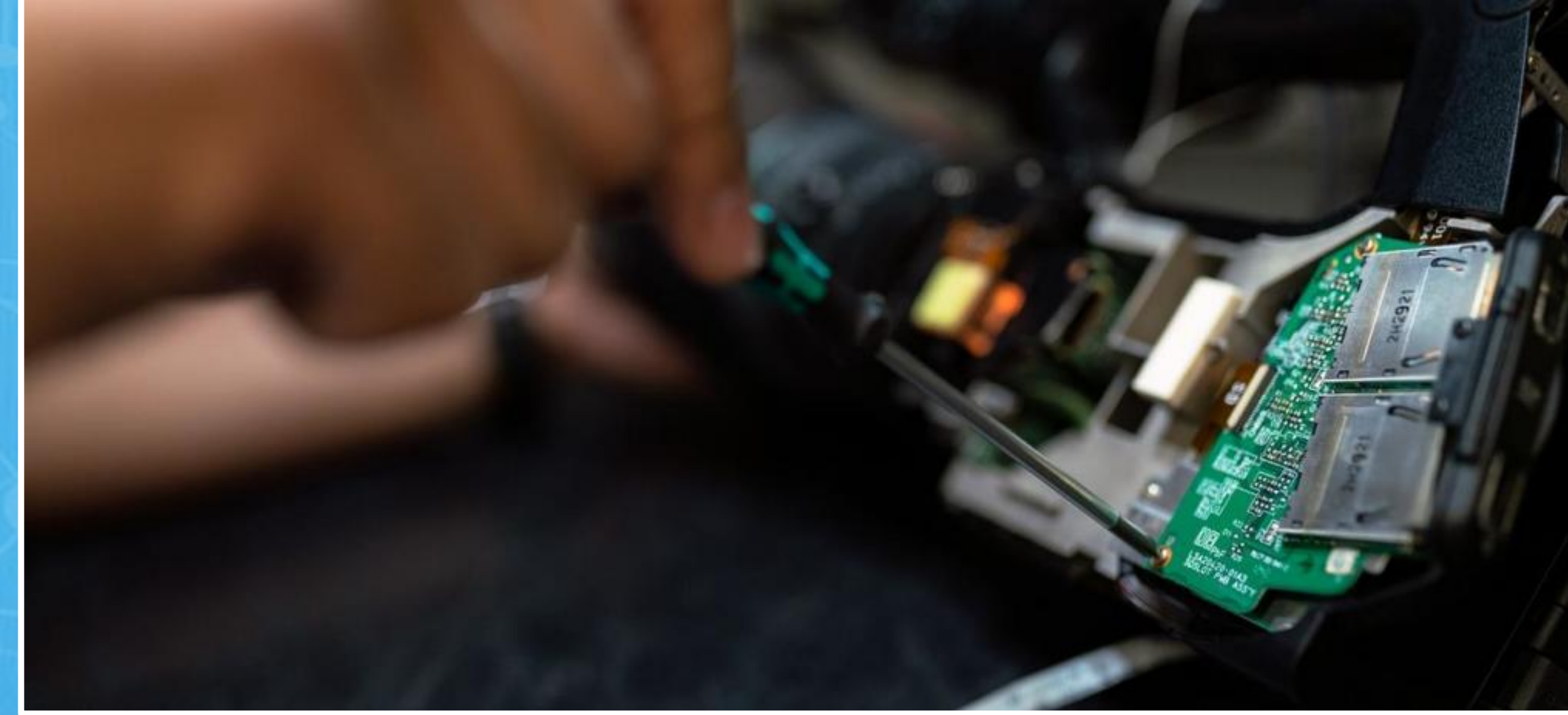


Electrical Services



Consulting & Planning

- Power System Consulting
- Energy Business Advisory
- Power Supply Planning
- Electrical Planning
- Software Planning



Electrical Substations

- High, Medium, Low Voltage
- Protection Relays
- Power Quality & Measurement
- Substation Automation



Energy Storage

- Energy Storage Solutions
- Industrial Storage
- Infrastructure Storage
- Commercial Storage

Electrical Services



Renewable Energy

- Renewable Energy Integration
- Distribution Energy Optimization
- Energy Demand Response
- Energy Storage & Delivery



Energy Automation

- Smart homes
- Smart Office
- Smart Automation
- Smart Boardroom
- Energy Automation Solutions



Financing Projects

- Energy Finance
- Financing Solutions for Infrastructure
- Renewable Energy Financing

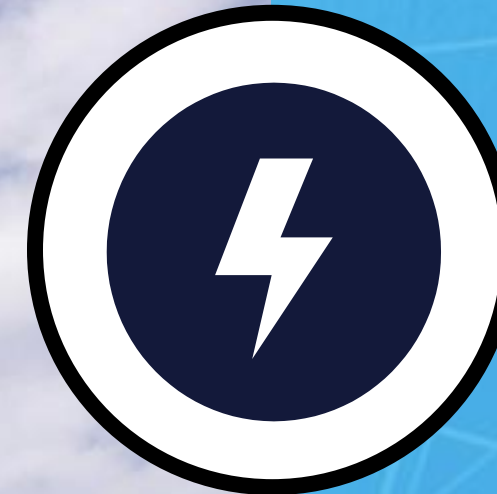


Smart Engineering

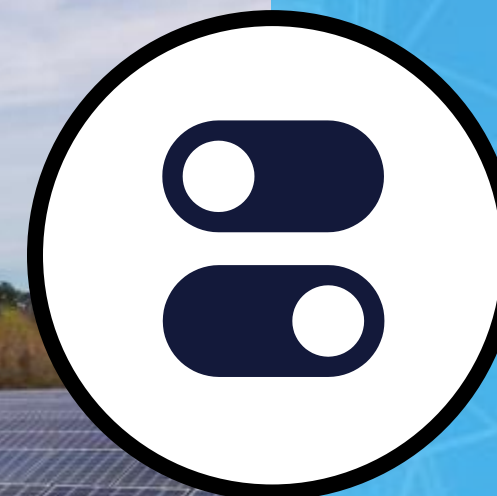


Staying ahead of change

Transform your business with our team of seasoned professionals providing innovative solutions tailored to your specifications.



- Short and Long-Term Infrastructure Master Planning



- Design and Construction of Electrical Substations, Power Lines and Mega Infrastructure Projects



- Alternative & Renewable Energy Solutions and Efficiencies
- Energy Intelligence and Energy Maintenance Programs
- Project Planning and Project Management



Projects

Centurion - Irene Link



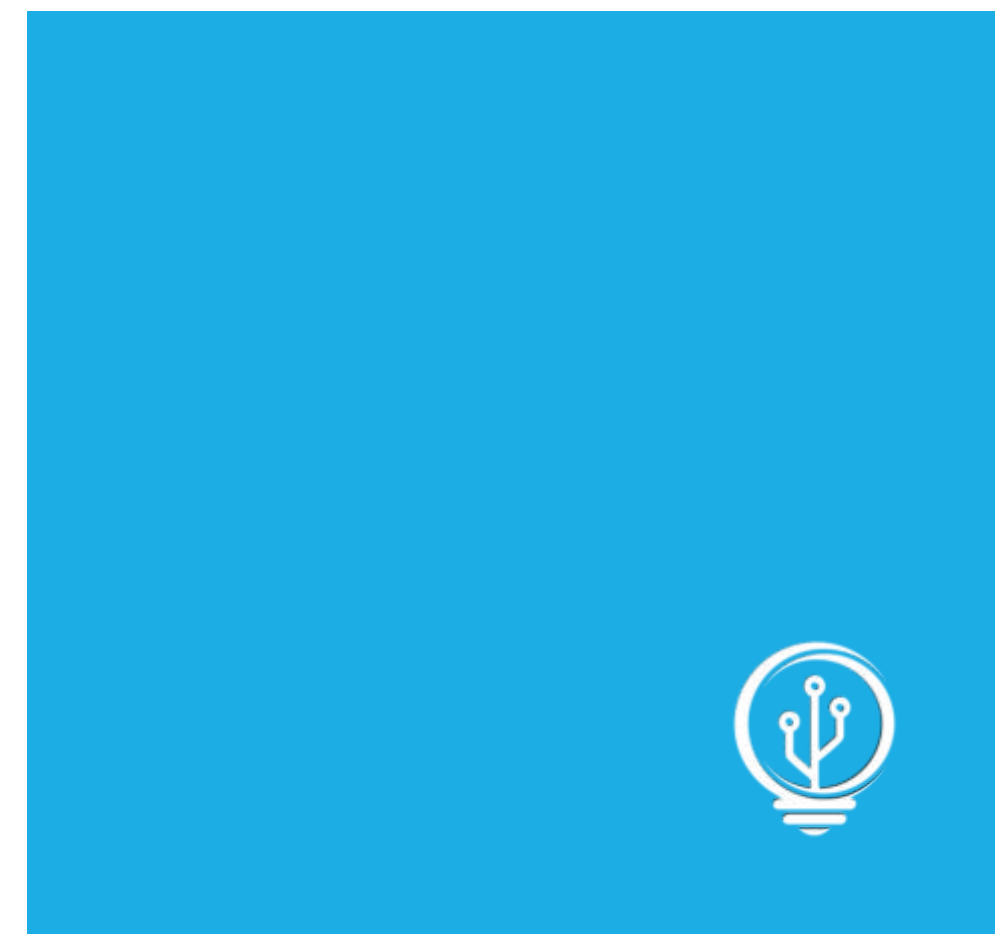
Projects

North-West University



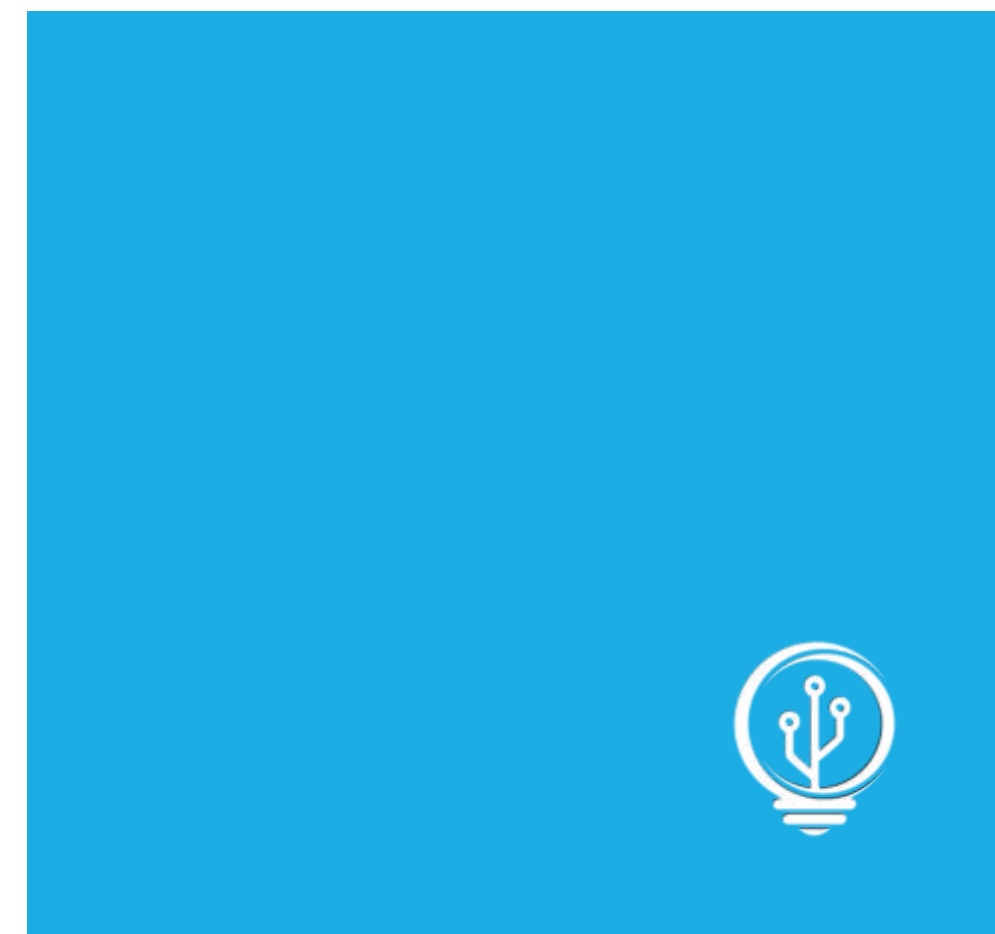
Projects

Gallery



Projects

Gallery



Contact us

Meet Our Team

Contact Smart-Tech Energy Solutions to enquire about your energy efficiency and sustainability needs.

General Enquiries:

Venessa: 068 737 7091

Email:

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Technical Enquiries:

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francois@smart-tech.online

Darren: 082 413 1519
darren@smart-tech.online

Lee: 081 890 9185
lee@smart-tech.online





THANK YOU
For Your Time

