

RHINO ENERGY SOLUTIONS

PROJECT PROFILE Q4 2026

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RHINOENERGY

SOLAR. ENERGY. EXCELLENCE.



TECHNICAL CAPACITY STATEMENT

Rhino Energy Solutions, established in 2007, is a specialist provider of renewable energy solutions across South Africa. Our technical capacity is built on nearly two decades of industry experience, a product-agnostic approach, in-house capabilities across engineering, procurement, construction, financing and operations and maintenance. We partner with agricultural, commercial, industrial and mining clients to deliver efficient, reliable and scalable clean energy solutions tailored to their business environments.

Rhino Energy Solutions has over 99MWp in solar PV systems and 25MWh in BESS across 175 projects, Rhino Energy Solutions has the necessary experience to support its clients in this ever changing and multifaceted solution market.



Design & Engineering: Custom solar solutions tailored to your needs



Procurement & Installation: High-quality components, expert execution



Maintenance & Support: Preventive care and technical assistance



Financing Options: Flexible models with no ties to major banks

Technical Offerings:



Integrated Solar Engineering, Procurement and Construction (EPC) Capability:

Rhino Energy Solutions delivers custom designed solar PV solutions across grid-tied, hybrid and off-grid configurations. Each project is engineered to match client specific energy profiles, load demands and site constraints. The Rhino Energy Solutions team manages all phases of system deployment, from technical design and product specification to structural mounting solutions and commissioning. Our solutions use only tier-1 components and are fully compliant with Small-Scale Embedded Generation (SSEG) and NERSA requirements.



Battery Energy Storage Integration:

Rhino Energy Solutions incorporates cutting edge battery energy storage systems (BESS) into our solar PV solutions. These systems ensure power availability during load-shedding or outages, enhancing energy independence, system efficiency and long-term performance stability. Storage solutions are designed to integrate seamlessly into new or existing PV infrastructure.



TECHNICAL CAPACITY STATEMENT



Fully Structured Financing Solutions:

Rhino Energy Solutions provides a range of strategic funding solutions designed to accommodate diverse commercial objectives and investment preferences. Under all our financing solutions, our clients benefit from procuring services from a Level 2 B-BBEE contributor, aligning with their transformation goals and procurement scorecard requirements.

Through a Power Purchase Agreement (PPA), clients benefit from a fully funded, installed, and maintained solar system with no upfront costs. Energy is supplied at a discounted fixed rate over a 10- to 20-year period, with ownership of the system transferred to the client at the end of the contract.

The Roof Rental Agreement (RRA) model enables property owners to convert unused rooftop space into income-generating assets. Under this arrangement, Rhino Energy Solutions operates the plant and supplies energy via a PPA to either the landlord or tenant.

For clients who prefer to own their solar systems outright, Rhino Energy Solutions offers an EPC purchase option that includes engineering, procurement, and construction services, along with full performance guarantees. Rhino Energy Solutions also assists with securing bank financing and provides systems that qualify for SARS 12B tax incentives and VAT recovery.



Operations & Maintenance (O&M):

Ongoing system performance is supported by the Rhino Energy Solutions dedicated O&M team, offering continuous monitoring, preventative maintenance and real-time response. All installations include a one year maintenance agreement, with optional multi-year service contracts available. We monitor systems daily via cloud-based software and proactively dispatch teams if anomalies arise. Our services include string testing, safety checks, cleaning, repairs, component replacements and system upgrades. Each solution is supported by a detailed service level agreement (SLA) aligned to client uptime and performance expectations.

Rhino Energy Solutions has delivered small to utility scale projects nationally, with a proven track record in owning and co-owning embedded generation plants. Our in-house design, engineering and project management teams ensure precise execution, while our finance and compliance divisions structure off-balance-sheet funding models to de-risk solar adoption for our clients. We are an approved partner with multiple financial institutions and serve clients across the industrial, commercial and agricultural sectors.

Professional Memberships:

- Electrical Contractors Association (ECA)
- PV Greencard
- Wireman's License
- SAPVIA



PVGreenCard

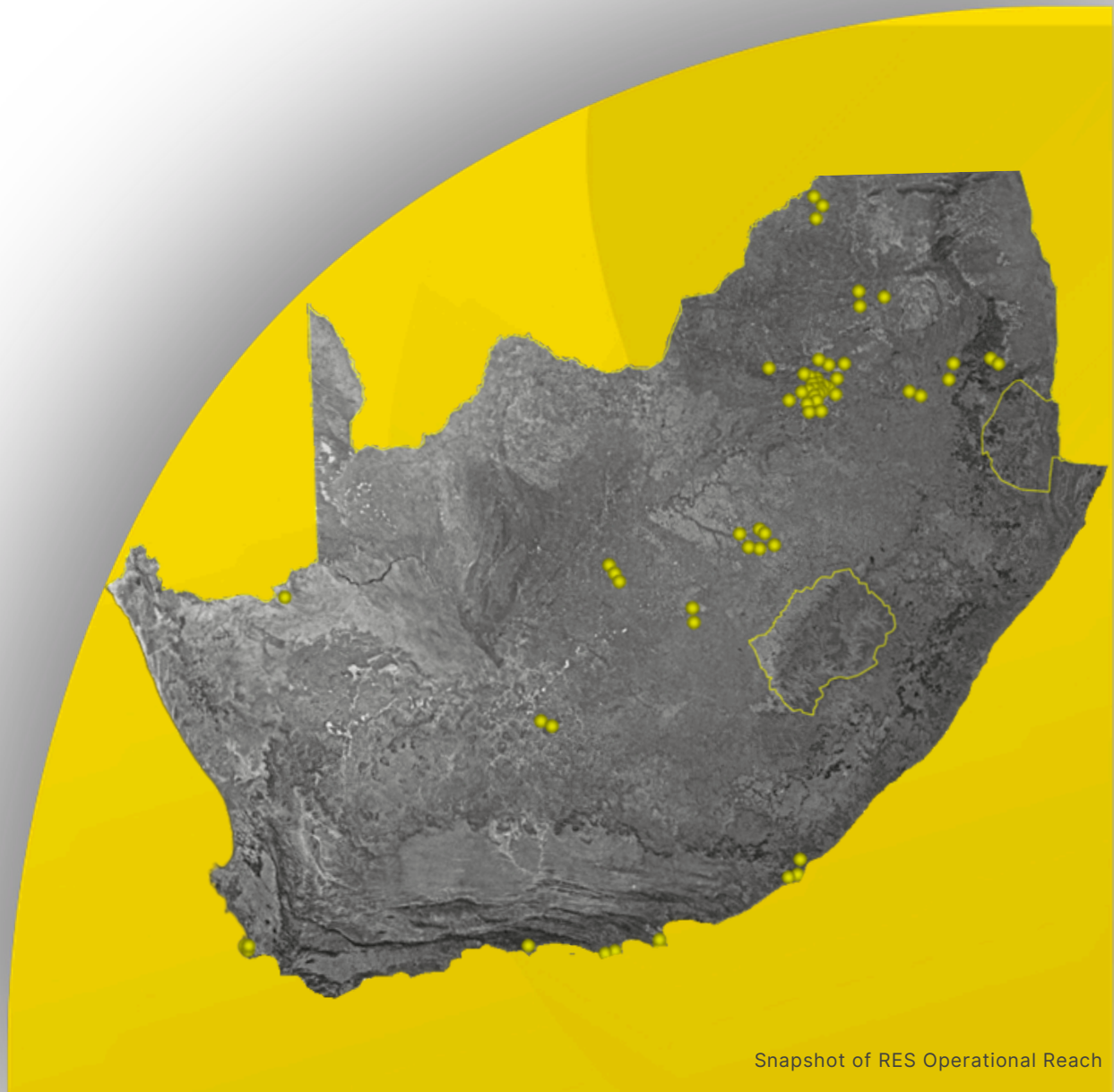




OPERATIONAL REACH

Rhino Energy Solutions (RES) has established a robust national footprint within South Africa's rapidly evolving renewable energy landscape. With a strong presence across key provinces, the company has successfully delivered solar PV and battery energy storage solutions to a broad range of clients including commercial, industrial, agricultural, mining and public sector entities.

Through strategic partnerships and a decentralised approach, Rhino Energy Solutions ensures that its technical teams and project support are accessible, responsive, and attuned to local requirements, regardless of location. This expansive reach enables the company to maintain consistent service delivery standards while offering tailored solutions that meet region specific energy challenges.





TECHNICAL CAPACITY

At Rhino Energy Solutions, our in-house teams are the driving force behind our industry leading energy solutions. Led by highly qualified professional engineers, we combine deep technical expertise with innovative problem solving to deliver efficient, high performance systems tailored to each client's needs.

Our installation teams are skilled, certified professionals who ensure seamless execution, adhering to the highest industry standards for safety, precision, and reliability. Overseeing every project, our experienced project managers bring strategic oversight, meticulous planning, and a commitment to on time, on budget delivery. With a team built on excellence, Rhino Energy Solutions guarantees smart, sustainable energy solutions that drive business success.

ENGINEERING

Our highly skilled engineering team, comprising of senior engineers and draughtsman, bring a wealth of expertise to every project.

Focusing on precision, innovation, and industry best practices, we deliver tailored engineering solutions that meet the highest standards of quality and efficiency.

PROJECT MANAGEMENT

Our dedicated project management team, consisting of senior and junior project managers, and project administrators, ensure seamless project execution from inception to completion.

With a focus on efficiency, precision, and strategic oversight, we drive projects forward, meeting deadlines, managing risks, and delivering exceptional results.

CONSTRUCTION

Our full in-house construction team, operating from Johannesburg and Cape Town, brings together qualified electricians and experienced implementation managers in both regions.

With expertise across all phases of construction, we ensure high-quality execution, compliance, and efficiency on every project.

OPERATIONS AND MAINTENANCE

Rhino Energy Solutions delivers reliable system performance through a dedicated Operations & Maintenance (O&M) team, ensuring continuous monitoring, preventative maintenance, and swift issue resolution.

Our services include string testing, safety checks, cleaning, repairs, component replacements, and system upgrades.



TECHNICAL TEAM



NJ Smit: Group Head Of Engineering

NJ is an Electrical Engineer with 13 year's work experience. His experience ranges from Energy Management in underground mining, Demand Side Energy Management and Renewable Energy with focus on Solar and Battery system. NJ has been part of the Rhino Energy Solutions family since 2018 as the Head of Engineering and assisted in growing the company to where it is today.

NJ holds a Bachelors and Master's degree in electrical engineering from the North-West University Potchefstroom and is a member of the South African Institute of Electrical Engineers.



Mthabisi Ncube: Group Head of O&M

Mthabisi is a seasoned professional in the renewable energy sector, boasting over 10 years of experience, with more than eight years dedicated to the solar PV industry. Holding a National Diploma in Electrical Engineering from the Vaal University of Technology.

Throughout his career, Mthabisi has successfully designed and deployed solar PV systems ranging from small-scale residential to large utility-scale projects across Southern Africa, including Namibia, Botswana, and South Africa.

Mthabisi leverages his extensive experience in post-sales support to lead Rhino Energy Solution's O&M team. He oversees performance monitoring, fault detection, and corrective maintenance, ensuring optimal energy output and minimizing downtime. His expertise in root cause analysis, troubleshooting, and process optimization drives team efficiency and exceptional customer satisfaction.



Tiaan Killian: Engineering Execution Manager

Tiaan is an experienced Engineering Execution Manager with a decade of expertise across energy management, manufacturing, product development and software engineering. With a strong technical background in solar PV and battery storage systems, he has played a central role in the planning and execution of high-impact energy projects. Since joining Rhino Energy Solutions in 2023, Tiaan has contributed significantly to strengthening the company's engineering execution and operational delivery.

He holds a Bachelor's Degree in Computer and Electronic Engineering from North-West University, Potchefstroom, as well as a Postgraduate Diploma in Management. His blend of engineering acumen and strategic insight makes him a key driver of Rhino Energy's innovation and project delivery success.



TECHNICAL TEAM



William Wood: Head of Installation

William is a highly skilled Construction Electrician with over 18 years of experience in the electrical industry, including more than 13 years dedicated to the solar energy sector. His long-standing relationship with Rhino Energy Solutions began in 2013 through subcontracted project work, and in 2017 he became a permanent member of the team. Since then, William has been instrumental in the successful delivery of numerous solar PV projects across residential, commercial, and industrial sectors, consistently demonstrating technical precision, site leadership, and a commitment to safety and quality.

He holds a Construction Electrical Qualification (2009), is a licensed Wireman (2012), and is certified with a PV GreenCard (2024). These credentials, combined with his practical expertise and in-depth knowledge of solar systems, position William as a key contributor to Rhino Energy's project execution and reputation for operational excellence.



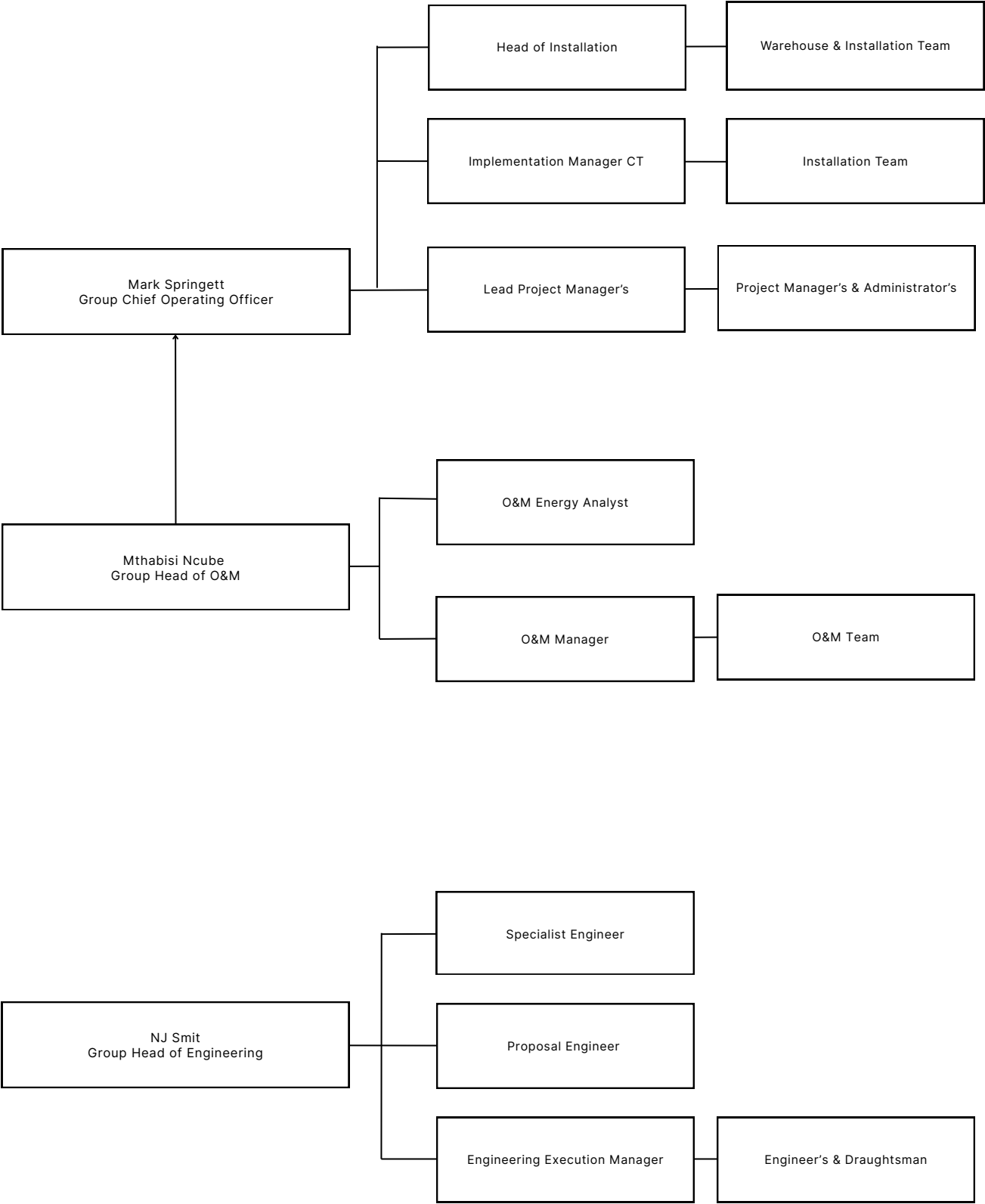
Sean Morison: Lead Project Manager

Sean is a Red Seal- certified plumber and construction professional with over 19 years experience in plumbing, solar installations and construction project management. His expertise spans from residential and commercial plumbing to renewable energy installations, with a strong focus on legal compliance and health and safety standards. As a lead Project Manager, Sean has played a vital role in delivering energy infrastructure projects and overseeing site compliance as an appointed 16.2.

With his valid Working at Heights and Medical Fitness certificate, reflecting his commitment to safe, compliant project execution.



TECHNICAL ORGANOGRAM





TRACK RECORD - SOLAR PV

Our expert team designs and delivers high performance solar PV systems tailored to your unique energy requirements. From complex commercial rooftops to expansive ground-mounted installations, we engineer each solution for maximum efficiency, reliability, and long term return on investment. Since 2007, Rhino Energy Solutions has successfully installed over 90 MWp of solar capacity across South Africa, demonstrating proven delivery and deep technical expertise.

We are committed to sustainability and energy security, helping businesses reduce their grid reliance, cut operational costs, and stay ahead of escalating electricity tariffs. Every system we deploy is built with premium components, integrated smart monitoring, and supported by responsive, local after-sales service. Our PV solutions don't just meet today's energy challenges, they future-proof your operations against tomorrow's uncertainties.

Rhino Energy Solutions Solar PV Track Record:

Region	Industry Type	DC Solar (kWp)	Mounting Structure
KwaZulu-Natal	Commercial	8064	Rooftop
Gauteng	Industrial	4175	Rooftop & Carport
Western Cape	Commercial	4140	Rooftop
Western Cape	Commercial	3632	Rooftop
Mpumalanga	Agricultural	3352	Rooftop & Ground Mount
National	Commercial	3029	Rooftop
Gauteng	Commercial	3000	Carport
Free State	Agricultural	2316	Rooftop & Carport
Gauteng	Industrial	2159	Rooftop
Gauteng	Commercial	1820	Rooftop
Gauteng	Industrial	1741	Rooftop
National	Industrial	1645	Rooftop
Gauteng	Industrial	1489	Rooftop
Western Cape	Commercial	1325	Rooftop
Gauteng	Industrial	1263	Rooftop
National	Commercial	1120	Rooftop
Gauteng	Industrial	1009	Rooftop
Gauteng	Commercial	1000	Rooftop
Gauteng	Commercial	975	Rooftop
Limpopo	Industrial	780	Ground Mount
Limpopo	Agricultural	749	Rooftop
National	Industrial	730	Rooftop
Eastern Cape	Industrial	704	Ground Mount
National	Commercial	698	Rooftop
Eastern Cape	Industrial	651	Rooftop
Western Cape	Industrial	651	Rooftop
Gauteng	Commercial	620	Rooftop
Gauteng	Industrial	600	Rooftop
Gauteng	Commercial	561	Rooftop
Gauteng	Hospitality	554	Rooftop
Gauteng	Industrial	528	Rooftop
Gauteng	Commercial	507	Rooftop
Western Cape	Industrial	503	Rooftop
Gauteng	Hospitality	500	Rooftop



TRACK RECORD - SOLAR PV

National	Commercial	500	Rooftop
Eastern Cape	Agricultural	468	Rooftop
Western Cape	Commercial	462	Rooftop
Western Cape	Commercial	452	Rooftop
Western Cape	Commercial	450	Rooftop
National	Commercial	450	Rooftop
Gauteng	Commercial	430	Rooftop & Ground Mount
Gauteng	Commercial	420	Rooftop
Gauteng	Commercial	416	Rooftop
Gauteng	Industrial	395	Rooftop
Gauteng	Industrial	384	Rooftop
Gauteng	Commercial	380	Rooftop
Eastern Cape	Agricultural	360	Rooftop
Gauteng	Industrial	348	Rooftop
Gauteng	Commercial	336	Rooftop
National	Commercial	328	Carport
Gauteng	Industrial	327	Rooftop
Gauteng	Industrial	325	Rooftop
Gauteng	Industrial	323	Rooftop
Gauteng	Commercial	307	Rooftop
Gauteng	Industrial	306	Rooftop
Gauteng	Commercial	300	Rooftop
Gauteng	Industrial	300	Rooftop
Gauteng	Commercial	300	Rooftop
Western Cape	Commercial	290	Rooftop
Gauteng	Commercial	290	Rooftop
Gauteng	Commercial	280	Rooftop & Carport
Gauteng	Commercial	279	Rooftop
Western Cape	Commercial	273	Rooftop
North West	Industrial	270	Rooftop
National	Commercial	270	Rooftop
Gauteng	Commercial	258	Rooftop
Mpumalanga	Hospitality	250	Rooftop
Gauteng	Commercial	250	Rooftop
Gauteng	Commercial	234	Rooftop & Carport
National	Commercial	233	Carport
Gauteng	Commercial	226	Carport
Gauteng	Commercial	223	Rooftop
National	Commercial	220	Rooftop
National	Commercial	220	Rooftop
Free State	Commercial	218	Rooftop
North West	Commercial	217	Rooftop
Western Cape	Commercial	211	Rooftop
Gauteng	Industrial	204	Rooftop
Gauteng	Commercial	202	Rooftop
Limpopo	Agricultural	200	Rooftop
Gauteng	Commercial	198	Rooftop



GRID TIED PROJECT EXAMPLE

Project Summary:

Industry: Agriculture

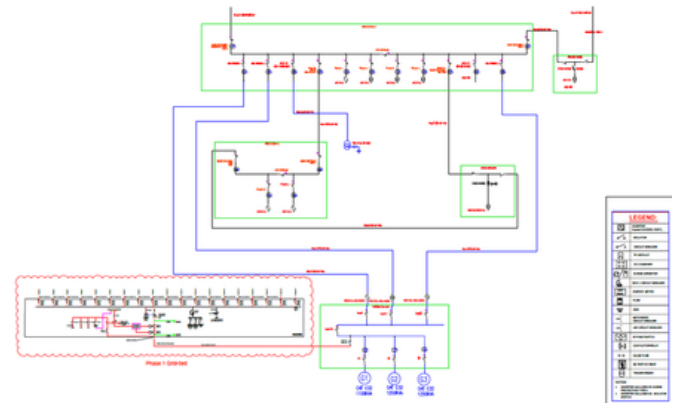
Project Size: 2 316 kWp

Installation Type: Grid-Tied

Location: Welkom, Free State

Year of Installation: 2024

Project Design:



Project Photographs:





TRACK RECORD - BESS

Rhino Energy Solutions integrates advanced battery energy storage systems (BESS) into our solar PV solutions to deliver reliable, uninterrupted power—day and night. With over 25 MWh of BESS capacity installed, our team has the proven expertise to design storage systems that ensure energy availability during loadshedding, peak tariff periods, and unplanned outages.

These systems enhance energy independence, operational efficiency, and the long term performance of your solar investment. Whether retrofitting existing infrastructure or delivering fully integrated new builds, our BESS technology transforms solar power into a true 24/7 solution, keeping your business powered, protected, and prepared for the future.

Rhino Energy Solutions BESS Track Record:

Region:	Industry:	BESS (kWh):
Mpumalanga	Commercial	6686
Gauteng	Commercial	4000
Eastern Cape	Industrial	1400
Gauteng	Industrial	960
Western Cape	Commercial	800
Western Cape	Commercial	800
Gauteng	Hospitality	640
Gauteng	Commercial	640
Gauteng	Industrial	600
Gauteng	Commercial	400
Gauteng	Commercial	324
Eastern Cape	Agricultural	320
Western Cape	Commercial	300
Gauteng	Agricultural	300
Gauteng	Commercial	270
Northern Cape	Commercial	240
Mpumalanga	Commercial	240
Gauteng	Commercial	200
Northern Cape	Industrial	160
Gauteng	Industrial	126
Gauteng	Industrial	100
KwaZulu-Natal	Agricultural	100
Gauteng	Industrial	80
KwaZulu-Natal	Hospitality	20
North West	Industrial	20
Gauteng	Industrial	19



TRACK RECORD - PPAs

Rhino Energy Solutions offers fully financed, end to end solar solutions through Power Purchase Agreements (PPAs), enabling businesses to access clean, reliable energy with no upfront capital investment. Under long term contracts, typically 10 to 20 years, clients benefit from discounted electricity rates, predictable energy costs, and immediate savings, all while supporting sustainability goals. Each PPA is tailored to your specific energy needs, ensuring a cost effective Small-Scale Embedded Generation (SSEG) system. Rhino Energy Solutions currently owns, operates, and maintains 9,9 MWp of Solar PV with 9,5 MWh of BESS of active PPAs across South Africa, with a proven track record of high performance and reliability.

Our expert team manages the full lifecycle of your solar project, from initial assessment and custom system design to procurement, seamless installation, and ongoing maintenance. We guarantee system performance for the duration of the agreement and provide continuous monitoring and support. With Rhino Energy Solutions, your business secures long-term energy stability and measurable cost savings, without the financial and operational burden of ownership.

Rhino Energy Solutions PPA Track Record:

Region:	Industry:	DC Solar (kWp):	BESS (kWh):	Mounting Structure:
Eastern Cape	Agricultural	3352	6686	Rooftop & Ground Mount
Gauteng	Commercial	1820		Rooftop
National	Commercial	867	2040	Rooftop
Gauteng	Commercial	724		Rooftop
Gauteng	Hospitality	525		Rooftop
Gauteng	Commercial	439		Rooftop
Gauteng	Commercial	336		Rooftop
Gauteng	Commercial	250		Rooftop
North West	Commercial	223		Rooftop
Gauteng	Commercial	215	400	Rooftop
Gauteng	Commercial	198	270	Rooftop
Gauteng	Industrial	179		Rooftop
Free State	Commercial	175		Rooftop
Free State	Commercial	151		Rooftop
Gauteng	Hospitality	138		Rooftop
Gauteng	Commercial	94		Rooftop
Gauteng	Commercial	93	108	Rooftop
Gauteng	Commercial	85		Rooftop
Gauteng	Commercial	60		Rooftop
Gauteng	Commercial	42		Rooftop



PPA PROJECT EXAMPLE

Project Summary:

Industry: Hospitality

Project Size: 525 kWp

Installation Type: Grid Tied

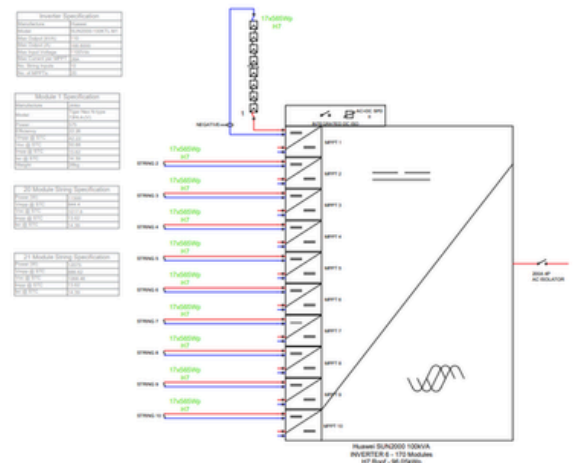
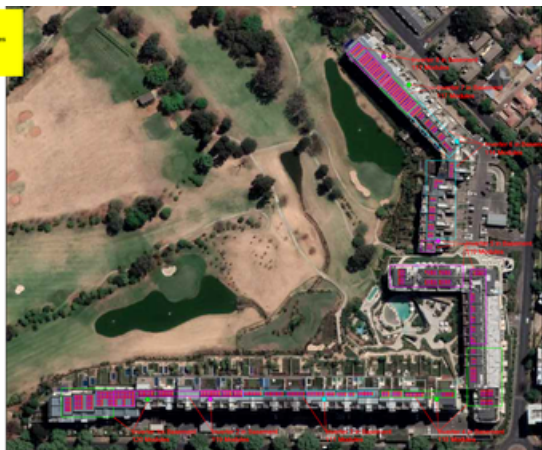
Location: Johannesburg, Gauteng

Year of Installation: 2023

Project Design:

Site Summary

525 x 5000m² Commercial Solar Modules
5-15 Sekundärbatterien



Project Photographs:





OPERATIONS & MAINTENANCE

At Rhino Energy Solutions, our dedicated O&M service ensures your solar plant performs optimally, delivers strong returns, and operates reliably over the long term. Each installation includes a complimentary one-year warranty with monthly performance reporting. During this period, we conduct regular inspections, panel washing, and preventative maintenance. At the end of the warranty term, we propose a three-year Service Level Agreement (SLA) to continue managing system performance, minimising downtime, and extending the lifespan of your investment.

We now also maintain a portfolio of projects for client systems not previously built by Rhino Energy. Our O&M portfolio consists of 116 sites, totaling 68 MWp, reflecting the trust placed in our technical expertise across a diverse range of installations.

Our O&M offering includes performance monitoring, safety inspections, equipment repairs, and regulatory compliance. Daily performance reporting is available as an optional add-on. Through cloud-based monitoring and a proactive response team, we identify and resolve issues early to protect your energy output. Plants under warranty or SLA are meticulously maintained to ensure peak efficiency, reduced operating costs, and long-term system sustainability.

No.	Site Name	Month To Date	Target	2025/07/30
1		88%	1515	1782
2		100%	1363	1946

Maintenance	System did not meet the target due to maintenance that was taking place onsite
Shading	System did not meet the target due to shading onsite
Panel wash required	System did not meet the target due to dirty panels
Grid outage	System did not meet the target due to grid outage
Portal problem	System is not injecting data to the portal
On Site Problem	System did not meet the target due to an onsite problem
Target achieved	The system met the target
Throttle	You didn't need more than was produced by the solar on the day
Cloudy	System did not meet target due to cloudy weather

Snapshot of RES Daily WhatsApp Report



Snapshot of RES Monthly Report



Snapshot of Monitoring Dashboard



RECENT O&M PROJECT EXAMPLES



Belville, Cape Town
Rooftop & Carport Solar

⚡ Project Size:
3 614 kWp

▶ [CLICK HERE](#) 🖱️



Lanseria, Johannesburg
Rooftop & Carport Solar

⚡ Project Size:
4 199 kWp

▶ [CLICK HERE](#) 🖱️



Century City, Cape Town
Rooftop PV Hybrid

⚡ Project Size:
273 kWp, 240 kWh

▶ [CLICK HERE](#) 🖱️



Struandale, Port Elizabeth
Rooftop Solar

⚡ Project Size:
752 kWp

▶ [CLICK HERE](#) 🖱️



Johannesburg, Gauteng
Rooftop Solar

⚡ Project Size:
245 kWp

▶ [CLICK HERE](#) 🖱️



Roodepoort, Johannesburg
Rooftop PV Hybrid

⚡ Project Size:
280 kWp, 640 kWh

▶ [CLICK HERE](#) 🖱️



CONTACT INFORMATION

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