



Sustainable Energy, Sustainable Future

## Our Journey

**Energy Masters** is a Ghanaian consultancy, advisory, and engineering firm specializing in cutting-edge solar energy solutions. Our mission is to deliver reliable, cost-effective, and sustainable energy alternatives across commercial, industrial, and residential sectors.

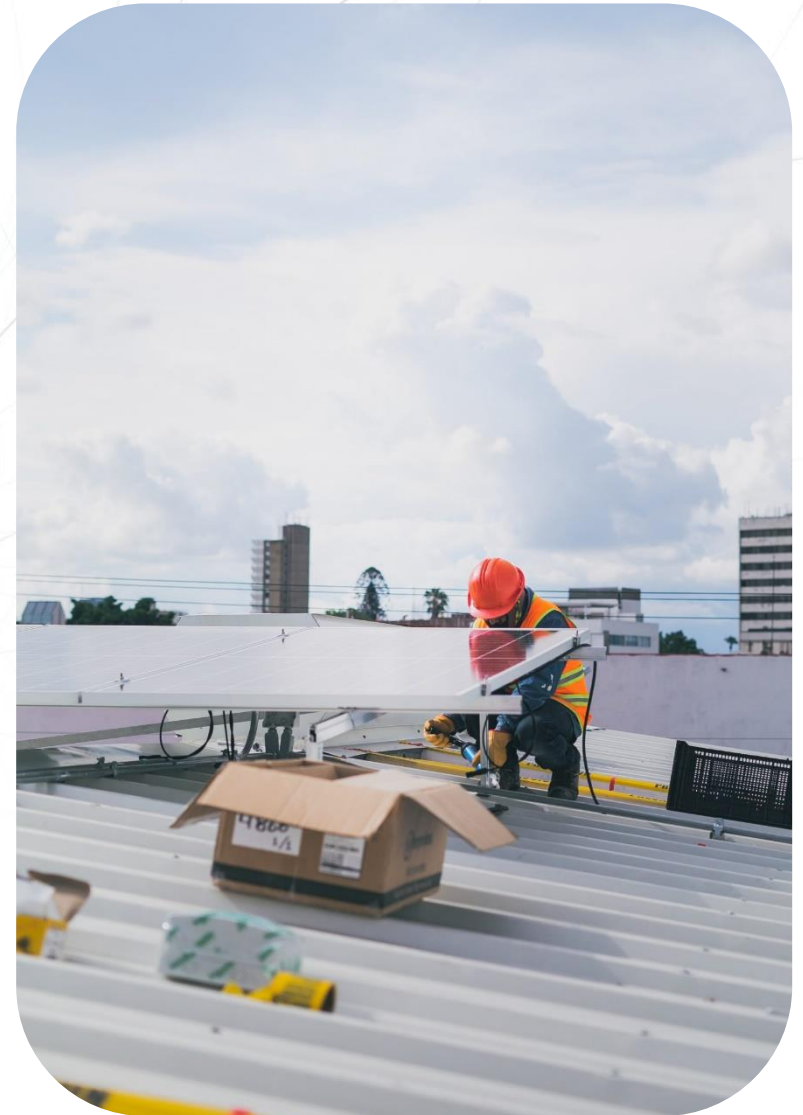
The company has established its leadership with a strong portfolio of delivering advanced engineering and it's driven by an unwavering dedication to revolutionize the renewable energy landscape in our markets. Our commitment to excellence and innovation fuels our ambition to set new standards in solar energy.

## Our Endeavor

Our solutions are organically simple and meticulously designed to exemplify engineering standards. They are conceived to deliver sustainable solutions that aligns with measurable benefits.

We offer turnkey renewable energy solutions that are designed to achieve multiple benefits:

- Reduce electricity cost
- Achieve Energy Security
- Optimize use of available spaces
- Offset carbon emissions
- Integrate well with your energy management plan





## Our Services

Energy Masters provides comprehensive solar energy solutions, including end-to-end EPC services for commercial, industrial, and residential projects. We offer expert operation and maintenance, detailed engineering documentation, project management, and energy audits.

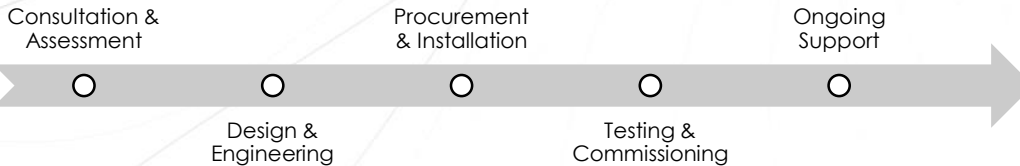
# Commercial and Industrial Solar EPC Projects

**Energy Masters** offers comprehensive EPC services for large-scale commercial and industrial solar projects. From initial site assessment to design, procurement, and construction, we ensure seamless project execution that meets your energy needs and sustainability goals.

- Customized Design & Engineering
- High-Quality Procurement
- Expert Construction & Installation
- Project Management & Compliance

## Our Process

We streamline the journey from concept to completion ensuring a seamless experience that guarantees a reliable and a sustainable solutions tailored to your unique needs.





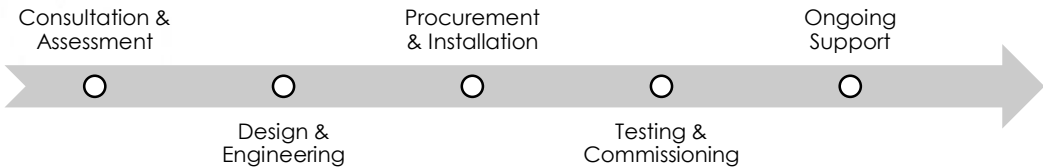
## Residential Solar Projects

Our residential solar solutions provide homeowners with a reliable, cost-effective, and sustainable energy source. We offer customized systems tailored to each home's specific energy needs and aesthetic preferences. From design and installation to ongoing support, Energy Masters ensures a seamless transition to solar power, enhancing home value while significantly reducing electricity bills.

- Personalized System Design
- Installation & Grid Connection
- Battery Storage Solutions
- Energy Monitoring & Management

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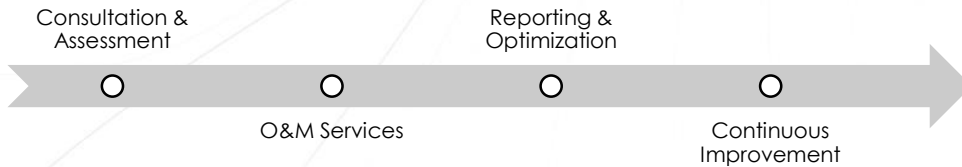
# Operation & Maintenance (O&M) and Energy Audit Services

To keep your solar system performing at its best, Energy Masters offers comprehensive Operation & Maintenance (O&M) services. We provide regular inspections, real-time monitoring, and prompt repairs to ensure maximum efficiency and longevity. Additionally, our Energy Audit services help identify energy inefficiencies, offering actionable insights to optimize energy use and further reduce costs.

- Preventive Maintenance
- Real-Time Monitoring
- System Repairs & Upgrades
- Performance Reporting

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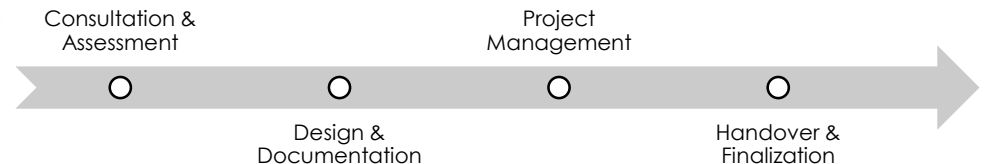
## Project Management & Technical Reporting

Energy Masters provides detailed engineering drawings and technical documentation for all solar installations, ensuring every aspect is meticulously planned and executed. Our project management services ensure that every project is delivered on time, within budget, and to the highest quality standards. From concept to completion, we manage every detail, ensuring a successful outcome for your solar project.

- Electrical & Structural Drawings
- System Schematics & Layouts
- Compliance Documentation
- As-Built Drawings
- Management & supervision

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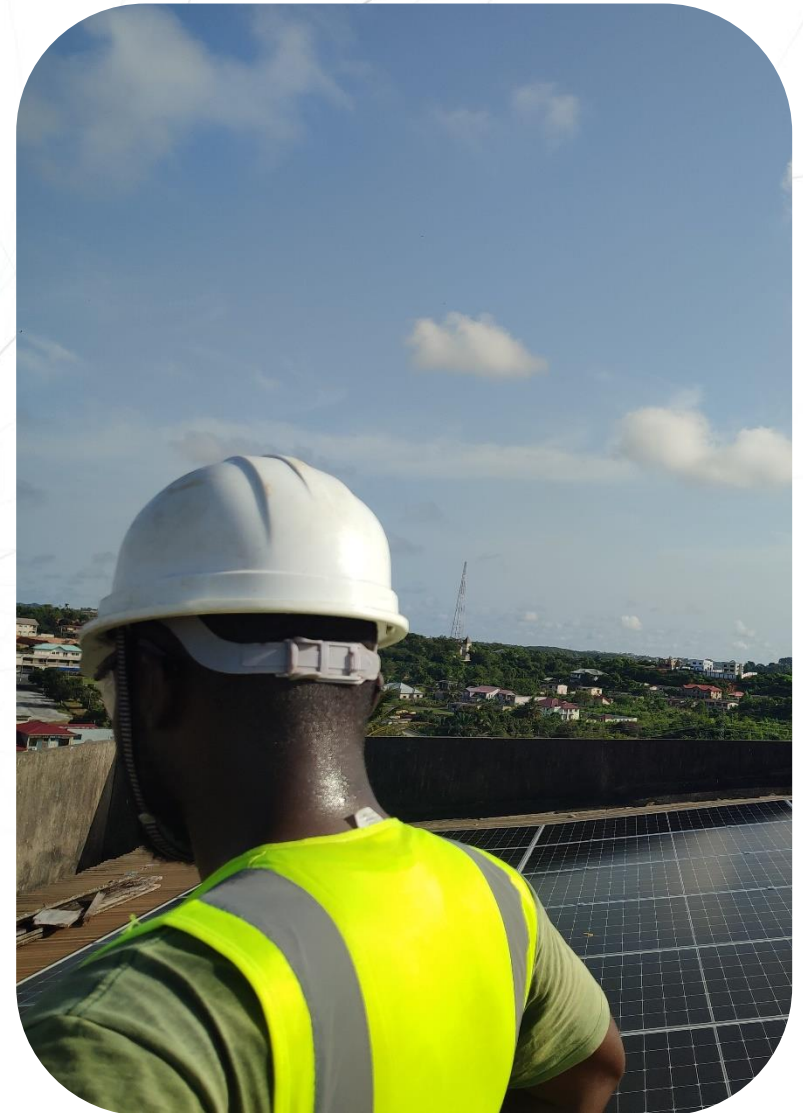
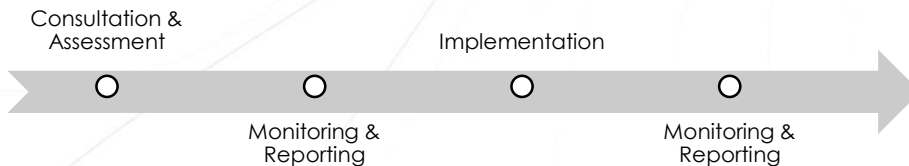
## Carbon Audit & Credit Consultancy

Energy Masters helps businesses and individuals reduce their carbon footprint through solar energy solutions that qualify for carbon credits. We assist in the certification process, monitor ongoing savings, and provide detailed reporting. By investing in our solar systems, you not only save on energy costs but also contribute to global sustainability efforts while earning valuable carbon credits.

- Carbon Footprint Analysis
- Emission Reduction Strategies
- Carbon Credit Certification
- Environmental Impact Reporting

## Our Process

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## **Projects: Industries and Clients**

Energy Masters' client segments include homes, industries, large farms, real estate developments, and commercial properties. A key aspect of our approach is providing tailored business setups and financing solutions through our financial partners enabling clients to adopt our energy solutions with minimal upfront investment

## 271.125kWp + 250kW Grid-Tied Solar System

Solar Capacity: 271.125kWp

Inverter Capacity: 5 x 50kW

Inverter Brand: SMA

This 271.125kWp Grid-Tied Solar System was developed for large-scale commercial energy generation. It is powered by 5 units of SMA STP Core 1 inverters, each contributing to the system's total 250kW inverter capacity, ensuring efficient energy conversion and seamless grid integration. The system maximizes solar energy production while offering significant reductions in grid electricity reliance. Our team's role in this project was to configure, test, and commission the system. We ensured optimal setup and functionality of the inverters, conducted thorough performance tests, and successfully commissioned the system for long-term, efficient operation. This grid-tied solution is ideal for businesses looking to lower energy costs and support sustainable energy initiatives on a large scale.



## 49.8kWp + 50kW Grid-Tied Solar System

Solar Capacity: 49.8kWp  
Inverter Capacity: 1 x 50kW  
Inverter Brand: Huawei

This 49.8kWp Grid-Tied Solar PV System is designed to support near net-zero energy goals for institutional applications. The system features a 50kW Huawei inverter, delivering efficient energy conversion and reliable integration with the grid. It provides a robust solution for enhancing energy efficiency and sustainability. Our team managed the configuration, monitoring setup, and commissioning of this system. We ensured optimal inverter configuration, integrated a real-time performance monitoring system, rigorously tested the system's functionality during pre-commissioning, and successfully commissioned it for long-term operation. This project underscores our expertise in providing innovative solar energy solutions tailored to high-performance standards.



# 130.5kWp + 150kW Grid-Tied Solar System

Solar Capacity: 130.5kWp  
Inverter Capacity: 3 x 50kW  
Inverter Brand: SMA

This 130.5kWp Grid-Tied Solar System is designed to meet the energy demands of a commercial facility, utilizing 3 SMA STP Core 1 inverters for a total 150kW inverter capacity. The system ensures high-efficiency energy conversion and seamless integration with the grid, providing consistent solar power to reduce electricity costs and increase sustainability. Our team's role in this project included configuring, testing, and commissioning the system. We expertly set up the inverters, conducted rigorous testing to ensure peak performance, and commissioned the system for smooth, long-term operation. This grid-tied solar solution is ideal for commercial entities seeking to reduce energy expenses while contributing to renewable energy initiatives.



# 98.6kWp + 95kW + 720kWh AC Coupled System

Solar Capacity: 98.6kWp  
PV Inverter Capacity: 95kW  
Battery Inverter Capacity: 60kW  
Battery Capacity: 720kWh  
Inverter Brand: SMA

This 98.6kWp Solar PV System is designed to deliver efficient energy production with advanced energy storage capabilities. The system includes 95kW of SMA PV inverters for optimal energy conversion, paired with a 60kW SMA battery inverter and 720kWh of battery storage for reliable backup and energy management. Our team at Energy Masters supervised the entire process, from installation through to commissioning and ongoing monitoring.



# 110.07kWp + 100kW Grid-Tied Solar System

Solar Capacity: 110.07kWp  
Inverter Capacity: 2 x 50kW  
Inverter Brand: SMA

This 110.07kWp Grid-Tied Solar System is designed for efficient energy production in medium to large commercial applications. The system utilizes 2 units of SMA STP Core 1 inverters, providing a total inverter capacity of 100kW, ensuring high-efficiency energy conversion and seamless integration with the grid. It offers a reliable solution for reducing energy costs and enhancing sustainability efforts. Our team took responsibility for the configuration, testing, and commissioning of this system. We ensured that the inverters and solar array were optimally configured, rigorously tested the system's performance, and successfully commissioned it for long-term grid-tied operation. This project highlights our expertise in delivering high-quality, scalable solar energy solutions.



## 16.5kWp + 15kW + 30kWh Hybrid Solar System

Solar Capacity: 16.5kWp  
Inverter Capacity: 3 x 5kW  
Battery Capacity: 30kWh  
Inverter Brand: Deye

This 16.5kWp Solar PV System was designed to provide sustainable energy solutions for Zippy, a logistics company using electric motorbikes for delivery. The system features a 15kW Deye hybrid inverter and 30kWh of battery storage, ensuring a seamless combination of solar power and energy storage to reliably support their operations. Our team at Energy Masters supervised the entire project, overseeing the installation of the solar array, hybrid inverter, and battery storage to ensure flawless integration with Zippy's infrastructure. Additionally, we implemented a robust monitoring system to track real-time energy production, battery storage, and consumption, ensuring the system maintained energy independence and peak efficiency.



# 101.64kWp + 100kW Grid-Tied Solar System

Solar Capacity: 101.64kWp  
Inverter Capacity: 2 x 50kW  
Inverter Brand: SMA

This 101.64kWp Grid-Tied Solar System was designed for medium to large commercial installations, offering reliable solar energy generation. The system is powered by 2 SMA STP Core 1 inverters, with a combined 100kW inverter capacity, ensuring efficient energy conversion and integration with the grid. It is optimized for maximum solar output, significantly reducing electricity costs and enhancing energy sustainability. Our team was responsible for the configuration, testing, and commissioning of this system. We meticulously configured the inverters, performed rigorous testing to ensure efficiency and safety, and successfully commissioned the system for grid operation. This grid-tied solution is ideal for businesses looking to reduce their carbon footprint and enhance their energy independence.

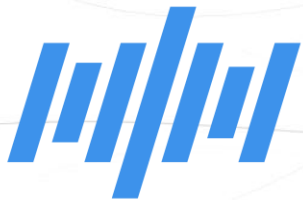




## Clients & Associates



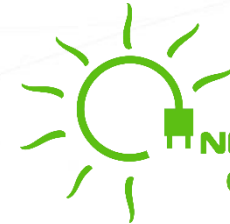
Akkadian



TBB POWER



Incept Architectural  
Consult



NEWSUN  
GREENTECH

**giz**

Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH



ENERGY LIMITED COMPANY  
Still Making Lives Greener



## Working With Energy Masters

### **Proven Process**

Our extensive solar project experience has allowed us the opportunity to develop and hone thorough best practices. From initial site assessment to system engineering, you can be assured of successful implementation and long-term results.

### **Reliable Technology**

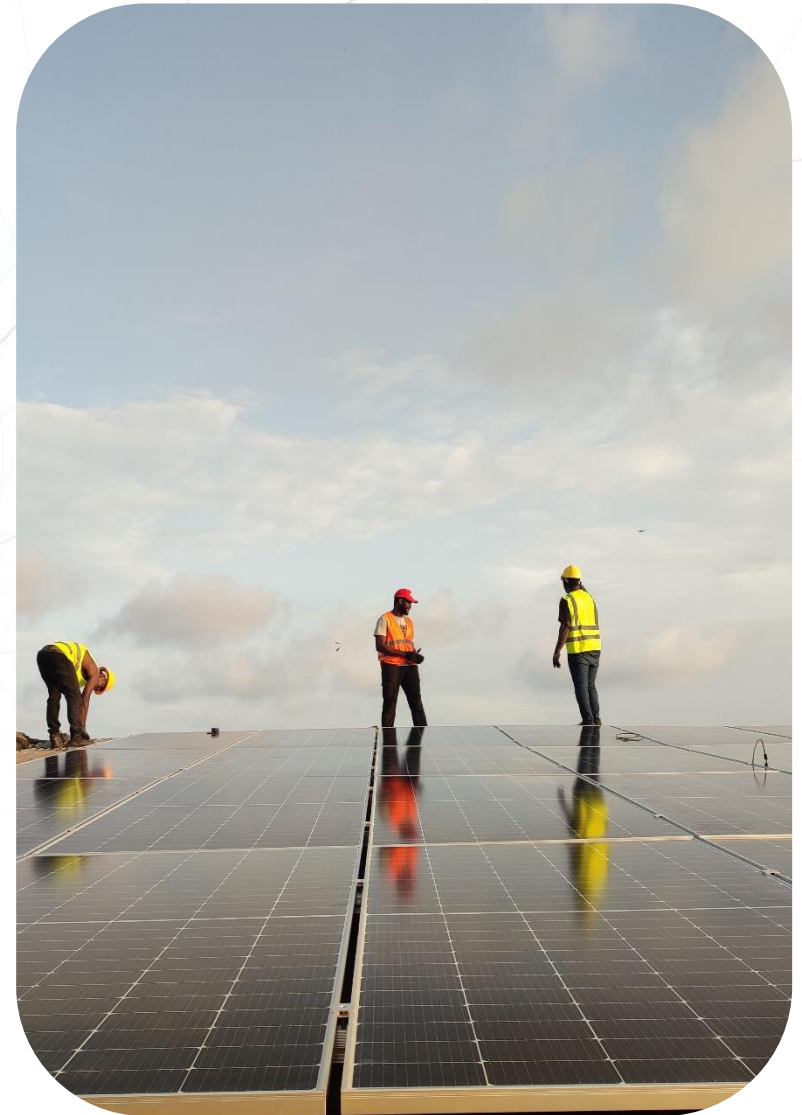
We call it our Standard System Architecture. It's a proven combination of tier-one solar components from the best solar panel, racking and inverter manufacturers in the world.

### **Skilled Team**

We employ a comprehensive, experienced team of account managers, engineers, project managers, electricians and construction staff in-house. Our group is invested in our mission and comprised of the best and the brightest professionals in the industry.

### **End-to-End Support**

From initial consultation to ongoing maintenance, we offer comprehensive support at every stage of your solar journey.



## Our Drive

Advances in sciences and technologies have taken over the world by storm, yet in comparison, energy and utilities still lag in innovation despite the enormous potential for free, clean energy sources.

We strive to shift this model by constantly evolving our partner network to make cleantech solutions available in their various forms.



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