

Ibogo Solar Farm

Powering Rural Communities & Agricultural Growth



Lead Developer
Novaris Power
Project Partners
UNDP, GEF, REA



RURAL ELECTRIFICATION AGENCY
ENERGY • EMPOWERMENT • EFFICIENCY



Table of Contents

3	Executive Summary	7	Impact & Community Benefits
4	About Novaris Power	8	Project Timeline
5	The Need for Ibogo Solar Farm	9	Contact Information
6	Project Scope & Technical Features		



Executive Summary

Empowering Ibogo with Clean Energy

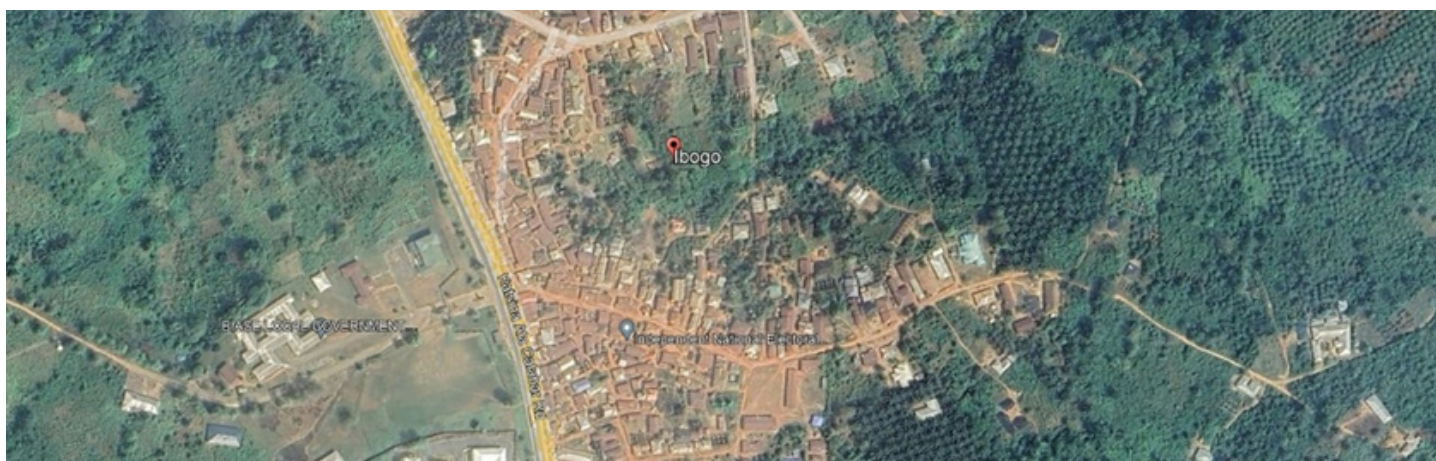
Novaris Power is proud to develop the **Ibogo Solar Farm**, a **cutting-edge renewable energy project** designed to **power rural communities and agricultural value chains** in Biase Local Government Area, Cross River State.

Through this **solar minigrid system**, we are bringing **reliable, cost-effective, and sustainable electricity** to **households, businesses, and agricultural processing facilities** - empowering economic growth, productivity, and community development.

Project at a Glance

- **Solar Capacity:** 50 kW
- **Annual Energy Output:** 107MWh/yr
- **Projected Beneficiaries:** 180 households, 30+ agricultural businesses
- **Economic Boost:** Affordable electricity for farming & businesses
- **Environmental Impact:** Annual CO2 reduction of 90 tonnes per year, equivalent to planting 1,500 trees every year
- **Long-Term Vision:** Scalable model for future rural electrification

This project is supported by the **Africa Minigrids Program (AMP)**, **UNDP**, **GEF**, and the **Rural Electrification Agency (REA)** as part of Nigeria's **Energizing Agriculture Programme (EAP)**.

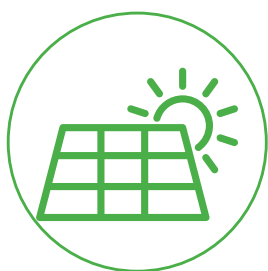


About Novaris Power

Who We Are & Why We Lead in Renewable Energy

Novaris Power is a leading **renewable energy developer** committed to **sustainable rural electrification** and **innovative energy solutions** in Africa. We specialize in designing, developing, and operating **solar minigrids** that drive **economic empowerment, agricultural productivity, and climate resilience**.

What We Do



**Power Project
Development**



**Infrastructure
Construction**



**Operations
and
Maintenance**

Our commitment is to **bridge the energy gap in underserved regions** while **accelerating Nigeria's clean energy transition**, and for Ibogo, we are drawing on our expertise in:

- **Renewable Energy Deployment:** Solar, battery storage, and hybrid minigrids
- **Rural Electrification & Productive Use Solutions**
- **Technology-Driven & Sustainable Business Models**
- **Long-Term Community & Stakeholder Engagement**

The Need for Ibogo Solar Farm

Bridging the Energy Gap for Economic Growth

Ibogo is a **vibrant agricultural community** with significant **economic potential**, but its **lack of reliable electricity** has been a major barrier to growth. **Agricultural businesses, households, and small enterprises** rely on **expensive, polluting diesel generators** - increasing costs and limiting productivity.

No Access to Grid Electricity



High Cost of Diesel Power for Farmers & Businesses



Post-Harvest Losses Due to Lack of Cold Storage



Limited Business Growth & Job Creation Opportunities



The Solution? Novaris Power's Ibogo Solar Farm. By delivering **clean, affordable, and reliable energy**, we are unlocking **new economic opportunities and improving lives.**

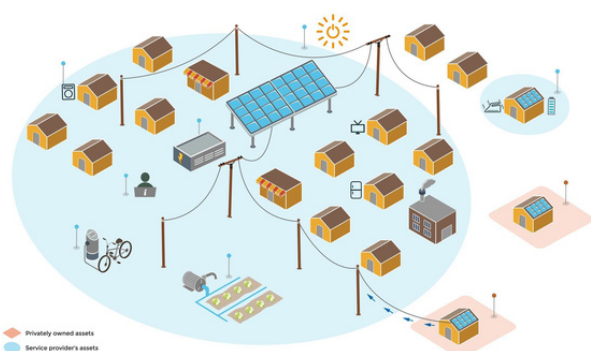
Project Scope & Technical Features

How the Ibogo Solar Farm Works

The Ibogo Solar Farm is a solar hybrid minigrid designed to power households, businesses, and agro-processing facilities.

How the Ibogo Solar Farm Works

The Ibogo Solar Farm is a solar hybrid minigrid designed to power households, businesses, and agro-processing facilities.



Key Components

- **Solar PV Capacity:** 50 kW
- **Battery Storage:** 85 kWh for uninterrupted power
- **Smart Grid Infrastructure:** Efficient energy distribution & monitoring
- **Smart Metering & Payment Systems:** Flexible tariffs for affordability
- **Agricultural Productive Use Equipment:**
 - Electrified cassava mills, oil presses, cold storage
 - Solar-powered irrigation & processing units

Why Ibogo Solar Farm is a Game-Changer

- **Smart Energy Management:** AI-driven load balancing & real-time monitoring
- **Scalable & Replicable Model:** Designed for expansion into other communities
- **Pay-As-You-Go Energy Access:** Enabling affordability & financial inclusion
- **Hybrid Energy Design:** Ensuring 24/7 power availability

Impact & Community Benefits

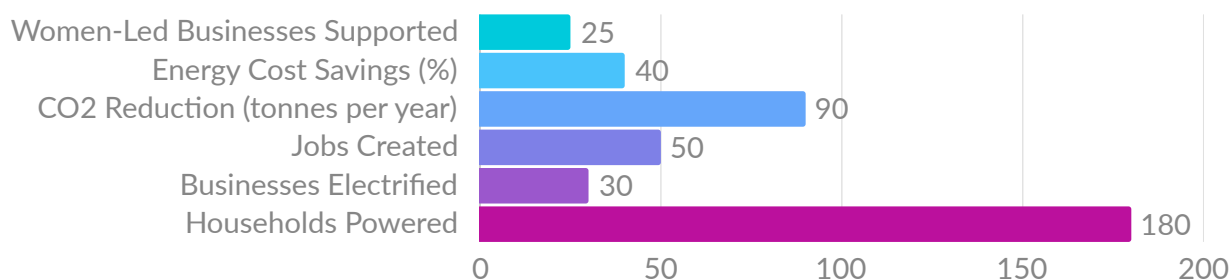
Powering Economic Growth & Social Development

Economic Impact

- **Affordable Electricity for Businesses** - Reduces operating costs for **shops, restaurants, and processing centers**
- **Job Creation** - Direct & indirect employment in **installation, maintenance, and local services**
- **Increased Agricultural Productivity** - Electrification of **mills, irrigation, and storage systems**
- **Stimulating Local Investment** - New opportunities in **agribusiness & manufacturing**

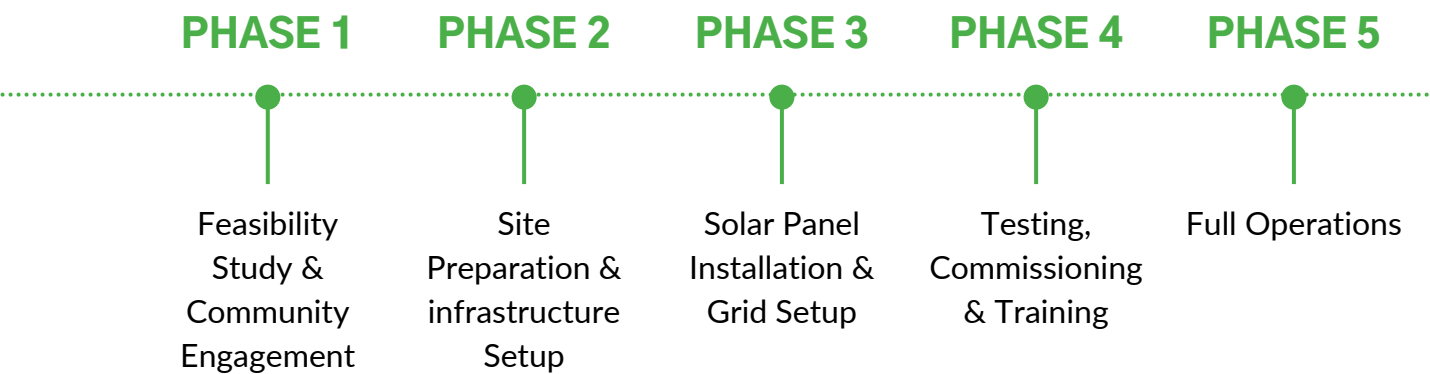
Social & Environmental Benefits

- **Energy Access for 1,000+ Residents** - Reliable electricity for **schools, homes, and healthcare**
- **Carbon Emission Reduction** - Eliminates diesel usage, cutting **90 tonnes of CO2 annually**
- **Gender Empowerment** - Women-owned businesses benefit from **improved processing & retail capacity**
- **Better Quality of Life** - Safer, cleaner, and **more affordable energy options**



Economic & Social Impact of Ibogo Solar Farm

Project Timeline



Future Expansion & Vision

Novaris Power is committed to scaling up rural electrification by:

- Expanding the Ibogo Model to more communities
- Exploring e-Mobility & Electric Agricultural Equipment
- Integrating More Smart Grid Innovations

**For enquiries,
contact us.**

www.novarispower.com
enquiries@novarispower.com
+234 201 330 9387

