



Lexiano Solar

PROJECT PORTFOLIO

Solar power you can rely on.

Solar importers, sales and installation.
More than 400 installations for homes,
hospitals, hotels, universities and
businesses across Nigeria.

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ABOUT THIS DOCUMENT

A portfolio of our work, not a quotation. Your proposal follows a site assessment.

Private clients are not named.

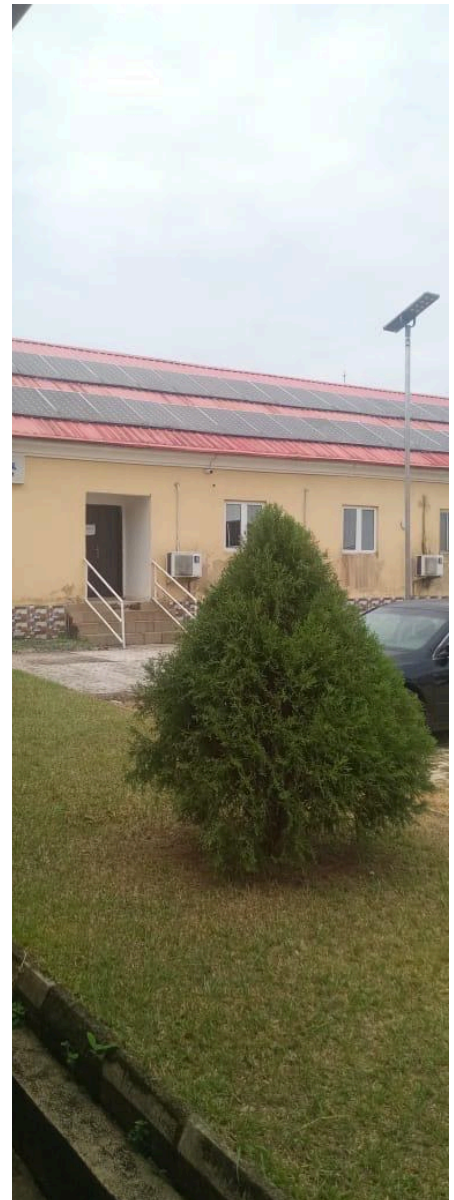


Built on experience

Lexiano Solar imports, sells and installs solar panels, inverters, batteries and solar lighting across Nigeria.

We have completed more than 400 installations and projects, from single homes to hospitals, hotels and university campuses.

This portfolio shows a selection of that work and explains how we prepare a system for your site.



University of Calabar Teaching Hospital ·
Lexiano Solar installation

400+ Installations and projects	12+ States, plus the FCT	37.5 kVA Largest single installation	60 kWh Largest lithium bank on one site
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What we supply and install

Seven solution types and where to find an example of each.

SOLUTION	SUITED TO	RANGE ON RECORD	EXAMPLE
Hybrid solar systems	Homes, offices, hotels and institutions	1 kVA to 37.5 kVA, up to three inverters	Case studies 1, 3, 4 and 5
Batteryless (direct-solar) inverters	Sites that use most of their power in daylight	3.2 kVA to 10.2 kVA	Case studies 5 and 6
Lithium battery storage	Evening and overnight supply, daily use	10 kWh to 60 kWh per site	Case studies 1, 3, 5 and 6
Tubular battery storage	Lower-cost backup	2 to 24 batteries per site	Page 14
Solar street and flood lighting	Estates, schools, churches and campuses	60 W to 300 W lamps; up to 20 lights per site	Case study 6; page 14
Solar water pumping	Boreholes without reliable grid power	Solar submersible pump	Case study 7
Portable solar generators	Homes, offices, projects and events	1 kVA to 5 kVA units	—

SERVICES ON EVERY PROJECT

Assessment and design

Import and sales

Installation and commissioning

Upgrades and expansion

Maintenance and repair

Remote monitoring on supported inverters



Featured projects

NO.	PROJECT AND LOCATION	SYSTEM	PAGE
1	Large residential solar and storage Agbor, Delta State	3 × 12.5 kVA · 35.2 kWp · 60 kWh lithium	07
2	University of Calabar Teaching Hospital Calabar, Cross River State	12.5 kVA · 5.2 kWp · 10 kWh lithium	08
3	Nwakanma Hotels Jikwoyi, Abuja (FCT)	2 × 10.2 kVA · 50 kWh lithium	09
4	Adekunle Ajasin University Akungba-Akoko, Ondo State	20 kVA · 40 panels · 40 batteries	10
5	Residential lithium storage Ikoyi, Lagos	10 kVA · 15.6 kWp · 45 kWh lithium	11
6	Lithium system with street lighting Auchi, Edo State	10 kVA · lithium storage · 10 street lights	12
7	Solar water pumping Ubulu-Uku, Delta State	Solar submersible borehole pump	13
8	University campus street lighting Idumuje-Ugboko, Delta State	20 street lights · 5 kVA system	14
9	School and church lighting Abuja (FCT)	9 street lights · floodlights	14
10	Three-inverter solar system Lagos	3 × 10 kVA · 13.44 kWp · 24 tubular batteries	14
11	Residential upgrade with lighting Mabushi, Abuja (FCT)	2 × 10 kVA · 5 street lights	14
12	Residential hybrid system Lugbe, Abuja (FCT)	10.2 kVA · 11.2 kWp · 4 tubular batteries	14
13	Residential dual-inverter system Ibadan, Oyo State	2 × 6 kVA · 15 kWh storage	15
14	Dual-inverter lithium system Lagos	2 × 6.2 kVA · 11.04 kWp · 30 kWh lithium	15
15	Residential system with monitoring Katampe, Abuja (FCT)	10 kVA · 4.95 kWp · 4 tubular · Wi-Fi	15

Shaded rows have full case studies. kVA = inverter rating · kWp = solar array output · kWh = battery storage.



Based in Abuja, working nationwide

Installations in more than 12 states and the FCT, including:

FCT (Abuja)

Asokoro, Guzape, Gwarimpa, Jikwoyi, Katampe, Life Camp, Lugbe, Mabushi

Lagos

Ikoyi, Lekki, Surulere, Victoria Garden City

Delta

Agbor, Asaba, Ibusa, Ogwashi-Uku, Ubulu-Uku, Warri

Cross River

Calabar

Edo

Auchi, Benin City

Oyo

Ibadan

Ondo

Akungba-Akoko

Also

Akwa Ibom, Anambra, Bauchi, Enugu, Nasarawa, Ogun

Your site is somewhere else? We travel to clients across Nigeria. **+234 802 080 2999**



RESIDENTIAL · DELTA STATE

Large residential solar and storage installation

LOCATION	CLIENT	SOLUTION
Agbor, Delta State	Private residence	Hybrid solar with lithium storage



THE PROJECT

Our largest installation: three hybrid inverters, a 64-panel bifacial array and 60 kWh of lithium storage.

SCOPE OF WORK

- System design and sizing
- Supply and installation
- Commissioning and handover

SYSTEM SPECIFICATION

Inverters

3 × 12.5 kVA hybrid (37.5 kVA)

Solar array

64 × 550 W bifacial (35.2 kWp)

Battery storage

4 × 15 kWh lithium (60 kWh)

ESTIMATED SAVING

≈ **₦2.1m** a month

About 1,180 litres of diesel a month, compared with a generator.

Estimate · method on page 17



HEALTHCARE · CROSS RIVER STATE

Solar power for the University of Calabar Teaching Hospital



Lexiano Solar installation, Calabar

LOCATION

Calabar, Cross River State

CLIENT

University of Calabar Teaching Hospital,
Department of Urology

SOLUTION

Hybrid solar with lithium storage

A hybrid inverter, high-output 650 W panels and lithium storage keep hospital work running when grid supply drops.

SYSTEM SPECIFICATION

Inverter

12.5 kVA hybrid

Solar array

8 × 650 W (5.2 kWp)

Battery storage

10 kWh lithium

ESTIMATED SAVING

About 175 litres of diesel a month, compared with a generator. Method on page 17.

≈ **₦310,000** a month



HOSPITALITY · FCT

Hybrid solar and lithium storage for Nwakanma Hotels

LOCATION Jikwoyi, Abuja (FCT)	CLIENT Nwakanma Hotels	SOLUTION Hybrid solar with lithium storage
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THE PROJECT

Two inverters and 50 kWh of lithium storage keep the hotel running through the evening and overnight.

SCOPE OF WORK

- System design and sizing
- Supply and installation
- Commissioning and handover

SYSTEM SPECIFICATION

Inverters

2 × 10.2 kVA

Battery storage

2 × 25 kWh lithium (50 kWh)

Solar array

Approx. 16 kWp

ESTIMATED SAVING

≈ **₦970,000** a month

About 540 litres of diesel a month, compared with a generator.

Estimate · method on page 17



EDUCATION · ONDO STATE

Solar power system for Adekunle Ajasin University

LOCATION	CLIENT	SOLUTION
Akungba-Akoko, Ondo State	Adekunle Ajasin University	Solar power with battery storage



THE PROJECT

A 20 kVA solar system with a 40-panel array and a 40-battery bank for the university.

SCOPE OF WORK

- System design and sizing
- Supply and installation
- Commissioning and handover

SYSTEM SPECIFICATION

System rating

20 kVA

Solar array

40 panels, approx. 10 kWp

Battery storage

40 batteries

ESTIMATED SAVING

≈ **₦600,000** a month

About 340 litres of diesel a month, compared with a generator.

Estimate · method on page 17



RESIDENTIAL · LAGOS

High-capacity lithium storage for a Lagos home

LOCATION Ikoyi, Lagos	CLIENT Private residence	SOLUTION Hybrid solar with lithium storage
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THE PROJECT

A home system built to grow. It started with 16 panels and 30 kWh of lithium, and was later expanded to 26 panels and 45 kWh.

SCOPE OF WORK

- System design and installation
- Expansion with 10 panels and 15 kWh of lithium
- Inverter upgrade to a 10 kVA hybrid

SYSTEM SPECIFICATION

Inverter

10 kVA hybrid

Solar array

26 × 600 W (15.6 kWp)

Battery storage

45 kWh lithium

ESTIMATED SAVING

≈ **₦940,000** a month

About 520 litres of diesel a month, compared with a generator.

Estimate · method on page 17



RESIDENTIAL AND LIGHTING · EDO STATE

Lithium power system with solar street lighting

LOCATION	CLIENT	SOLUTION
Auchi, Edo State	Private client	Lithium system and street lighting
10 kVA Batteryless inverter	4 Lithium batteries	10 Solar street lights

THE PROJECT

Power and outdoor lighting from one installer, delivered in two phases.

Phase 1 10 kVA inverter, lithium batteries and ten street lights

Phase 2 Fourteen more panels, so the home runs directly on solar by day

SYSTEM SPECIFICATION

Inverter
10 kVA batteryless (direct-solar)

Storage
4 lithium batteries

Lighting
6 × 300 W and 4 × 60 W street lights

ESTIMATED SAVING

≈ **₦340,000** a month

From the 14 added panels alone, compared with a generator.

Estimate · method on page 17



WATER · DELTA STATE

Solar-powered borehole pumping

LOCATION	CLIENT	SOLUTION
Ubulu-Uku, Delta State	Private client	Solar water pumping



THE PROJECT

A solar submersible pump that runs straight from the panels. No fuel, no generator and no grid connection.

SCOPE OF WORK

- Supply of the solar pump
- Installation of pump and panels
- Commissioning

SYSTEM SPECIFICATION

Pump
Solar submersible, approx. 1.1 kW

Borehole
260 m

Solar array
6 panels, approx. 1.8 kWp

ESTIMATED SAVING

≈ **₦110,000** a month

About 60 litres of diesel a month, compared with a generator.

Estimate · method on page 17



More featured projects

08

University campus street lighting

Idumuje-Ugboko, Delta State

Twenty solar street lights across a university campus.

20 solar street lights
5 kVA solar system

09

School and church lighting

Abuja (FCT)

Street and flood lighting for Lumen Christi School and a church in Nyanya.

9 solar street lights
Floodlights
Motion-sensor lights

10

Three-inverter solar system

Lagos

Three 10 kVA inverters with a 48-panel array and 24 batteries.

3 × 10 kVA (30 kVA)
48 × 280 W (13.44 kWp)
24 tubular batteries

11

Residential upgrade with lighting

Mabushi, Abuja (FCT)

Upgraded to two 10 kVA systems, with five street lights outside.

2 × 10 kVA systems
5 × 300 W street lights

12

Residential hybrid system

Lugbe, Abuja (FCT)

A 28-panel array that runs the home on solar through the day.

10.2 kVA hybrid
28 × 400 W (11.2 kWp)
4 × 220 Ah tubular



13 Residential dual-inverter system

Ibadan, Oyo State

Two inverters with 15 kWh of battery storage.

2 × 6 kVA inverters
15 kWh battery storage

14 Dual-inverter lithium system

Lagos

Bifacial panels with 30 kWh of lithium storage.

2 × 6.2 kVA high-frequency
24 × 460 W bifacial (11.04 kWp)
2 × 15 kWh lithium

15 Residential system with monitoring

Katampe, Abuja (FCT)

A family-home system with Wi-Fi monitoring and solar fans.

10 kVA, Wi-Fi monitoring
9 × 550 W (4.95 kWp)
4 tubular batteries
4 solar fans



Solar street lighting at Lumen Christi School, Abuja



Typical system configurations

What is typical for each kind of site. Every system is sized to its own loads.

CONFIGURATION	INVERTER	SOLAR ARRAY	STORAGE
Compact backup Apartments, small homes and offices	1 to 3.2 kVA	1 to 3 panels, up to 1.2 kWp	1 or 2 tubular batteries
Family home Most medium-sized homes	5 to 6.2 kVA	8 to 12 panels, 3.6 to 5.5 kWp	4 tubular batteries, or 15 kWh lithium
Large home or office Larger homes and offices with heavier loads	10 to 12.5 kVA	9 to 28 panels, 4 to 15.6 kWp	4 tubular batteries, or 10 to 45 kWh lithium
Multi-inverter Hotels, institutions, large residences	2 or 3 inverters, 12.4 to 37.5 kVA in total	24 to 64 panels, 11 to 35.2 kWp	24 tubular batteries, or 30 to 60 kWh lithium
Street and flood lighting Estates, schools, churches, campuses	Self-contained, no inverter	Panel on each light	Battery in each light; LED lamps 60 to 300 W; motion-sensor options
Solar water pumping Boreholes	Pump controller	Sized to the pump	Usually none; water is stored in a tank instead

These are typical ranges, not fixed packages.



Reading a specification

kVA — inverter rating

How many appliances can run at the same time.

kWh — battery storage

Energy stored. 15 kWh runs a 1 kW load for up to 15 hours.

Batteryless inverter

Runs appliances straight from the panels in daylight.

Lithium batteries

Lighter, longer-lasting and maintenance-free.

kWp — solar array

Total panel output: 26 panels of 600 W make 15.6 kWp.

Hybrid inverter

Switches automatically between solar, battery, grid and generator.

Bifacial panels

Generate from both faces, adding output from reflected light.

Tubular batteries

Lower upfront cost; topped up with water once a year.

HOW WE ESTIMATE SAVINGS

Savings in the case studies compare solar with running a diesel generator. They assume:

Each kWp of panels produces about 4 kWh a day

80% of that energy is used on site

A generator burns about 0.35 litres of diesel per kWh

Diesel at ₦1,800 per litre

Real savings depend on how the system is used. Your proposal includes an estimate for your site.



How we deliver a project

Six stages, and what you receive at each.

	STAGE	WHAT HAPPENS	WHAT YOU RECEIVE
1	Consultation	We discuss what you need to power, when you use it, your budget and your timing.	An agreed brief
2	Site assessment	We check roof or ground space, shading, existing wiring and any inverter or generator already on site, and list the appliances to cover.	A load list agreed with you
3	Design and proposal	We size the inverter, panel array and battery bank to the load list, and choose the equipment.	A written proposal with specification, components, price and terms
4	Installation	Our team mounts the panels, installs the inverter and batteries, and completes cabling and circuit protection.	An agreed installation date
5	Commissioning and handover	We test the system under load, set up monitoring where the inverter supports it, and show you how to operate it.	A working system and a walkthrough
6	Support and upgrades	Maintenance, repairs, and extra panels, batteries or inverter capacity as your needs grow.	A point of contact for service



Warranties and support

30 YEARS Solar panels	5 YEARS Lithium batteries	3 YEARS Tubular batteries	2 YEARS Inverters
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QUALITY

- Premium UK and German equipment, imported by us
- Neat cabling with circuit breakers and protection
- Wi-Fi monitoring on supported inverters

MAINTENANCE

- Lithium systems need little routine maintenance
- Tubular batteries are topped up with water once a year
- We check in with every client after installation

GETTING THE BEST FROM YOUR SYSTEM

Your system is sized for the appliances agreed at design stage. Use it for those, and speak to us before adding new loads so we can expand it if needed.



Preparing your proposal

The more we know at the start, the more accurate your proposal will be.

WHAT WE NEED FROM YOU

- ☐ Site location and type: home, office, school, hotel or other
- ☐ The appliances to power, with rough wattages and hours of use
- ☐ Which of those must keep running during an outage
- ☐ Hours of grid supply you usually get each day
- ☐ Monthly spend on electricity and generator fuel
- ☐ Roof type and space, with a few photos
- ☐ Any existing inverter, batteries, panels or generator
- ☐ Budget range, timing, and any plans to expand later

WHAT YOUR PROPOSAL INCLUDES

- 1 A summary of your loads and how we sized the system
- 2 The recommended inverter, panel array and battery bank, with ratings
- 3 A full list of components and brands
- 4 Options where they help, such as lithium or tubular storage, or a phased upgrade
- 5 Installation plan and timing
- 6 Estimated savings, price and payment terms
- 7 Warranty terms for each component

This portfolio

Completed work and typical systems. No prices or terms.

Your proposal

Prepared after a site assessment, with specification, savings estimate, price and terms.



Lexiano Solar

NEXT STEPS

Start with a conversation about your site.

1

Get in touch

Tell us about your site and what you need powered.

2

Site assessment

We visit, check the space and agree the load list with you.

3

Your proposal

A written specification, price and terms for your site.

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Illustrative image