

# AYALA ENERGIES



**DEVELOPEMENT  
&  
ENGINEERING**



**BUILDING  
&  
OPERATION**



**MAINTENANCE OF  
PHOTOVOLTAIC  
POWER PLANTS**



**SOLAR STREET LIGHT  
PROJECT - SOLAR POWER  
LED STREET LIGHT**



**AYALA ENERGIES**

SEE THE FUTURE, EMBRACE THE CHANGE

# COMPANY PROFILE





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# ABOUT US



Today, the energy transition is opening up new opportunities for Moroccan companies to improve their competitiveness. Companies that have made this choice have been able to reduce their energy costs, increase their profitability and position themselves as eco-citizens, contributing to the protection of society and the environment.

Our company provides upstream engineering and consultancy services, and offers you high-performance solutions thanks to our extensive network of world-renowned technology partners and the use of certified and guaranteed state-of-the-art equipment. We support you in your safety projects and plans, enabling you to :

- Have the skills you need to keep pace with technical and organizational developments and remain competitive
- Satisfy your need to adapt employees to their positions and jobs

AYALA ENERGIES puts a network of experts and engineers in the field at your disposal, offering you tailor-made solutions.

These consultants are experienced in key energy functions, and can provide you with operational solutions that can be applied to your day-to-day work:

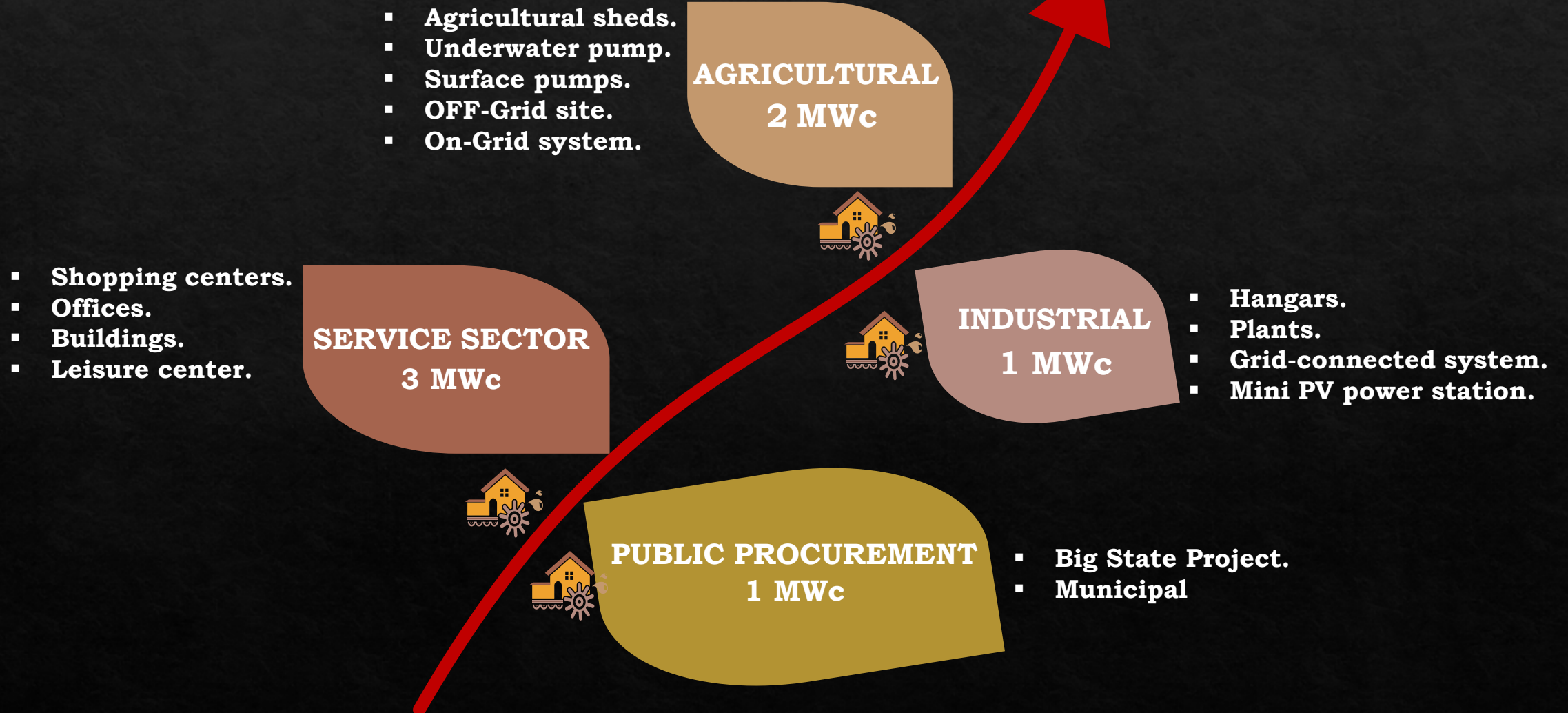
Our expertise is based on your day-to-day business issues.

We can carry out the following missions on your behalf:

- ◆ Engineering
- ◆ Implementation and maintenance
- ◆ Training
- ◆ Follow-up and support

# IN FIGURES

The know-how of our corporate team means you can choose the solutions to your needs. Our highly qualified staff, who have worked in Morocco for the past 10 years Morocco has proven expertise in the realization of and large-scale projects, from design to commissioning.



# WHAT WE DO ?

## Engineering

- PV plant commissioning.
- Audits and inspections concerning quality.
- Repowering and modernization.
- Installation and upgrade of remote monitoring system.
- File of executed works.

## Implementation

- site inspection.
- system sizing.
- selecting solar panels and components.
- administrative procedures.
- installation of the photovoltaic power plant.
- Commissioning.

## Follow-up & Support

- Performance monitoring and maintenance.



## Maintenance

### PV plant maintenance

- Préventive maintenance.
- Corrective maintenance.
- Exceptional maintenance (optional).

### PV site maintenance

- Panel cleaning.
- Vegetation management.
- Snow and sand removal.

### Spare parts storage

## Training

- Introduction to solar energy projects.
- Financing energy efficiency projects and ESCOs.
- RE feasibility assessment / investment valuation
- RE project finance.
- Project contracts.
- Policy frameworks for RE power generation.
- Climate finance.

# WHAT GROUNDS AND ROOFS TO USE ?

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## Collectives

- Public land.
- Administrative buildings.
- Schools, Colleges, High Schools, Harbours....



## Industrials

- Industrial wasteland.
- Warehouses, Factories.
- Logistics platforms.
- Quarries.



## Agriculture & Tertiary

- Farmhouse electrification.
- Sheds.
- Storage.
- Pumping stations.
- Shopping center.
- Office Buildings.



# OUR PHOTOVOLTAIC PLANT SOLUTIONS



## GROUND-MOUNTED PLANT

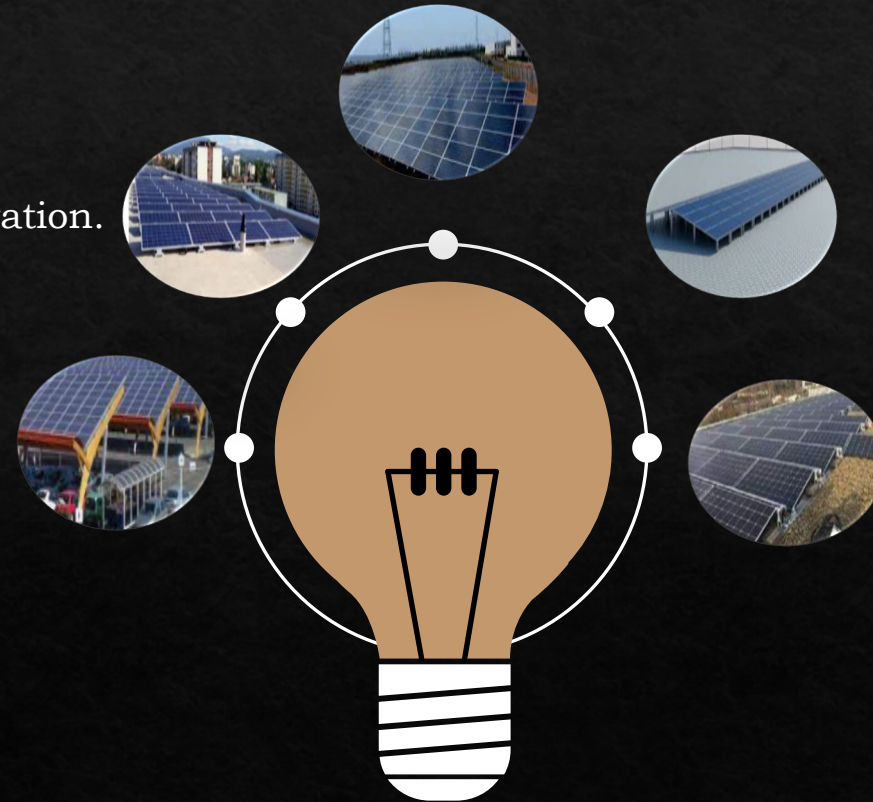
- Fixed structures on the ground for farms or open land.

## ROOFTOP POWER PLANT

- New building Roof renovation.

## OMBRIERES

- Industrial zones.
- Parking.
- Public parking areas.



## INNOVATIONS

- Energy storage.
- Off-Grid projects.
- Hybrid projects.
- On-grid projects.

## SELF-CONSUMPTION

- Savings on electricity bills.





Saad EL-ISSY

Renewable energy  
engineer



Mourad BOUSSIF

Electrical engineer



Zakaria KHAOUCH

Doctor in renewable energy  
wind and solar energy

OUR  
TEAM

# CONTACTER NOUS



## Contacter nous

N'hésitez pas à nous contacter si vous avez des questions ou des préoccupations concernant nos services , nous sommes là pour vous aider et répondre à vos besoins.



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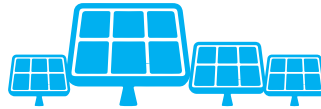
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# PARTNERS

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## Partners & Suppliers





# Thank You

Renewable Energy