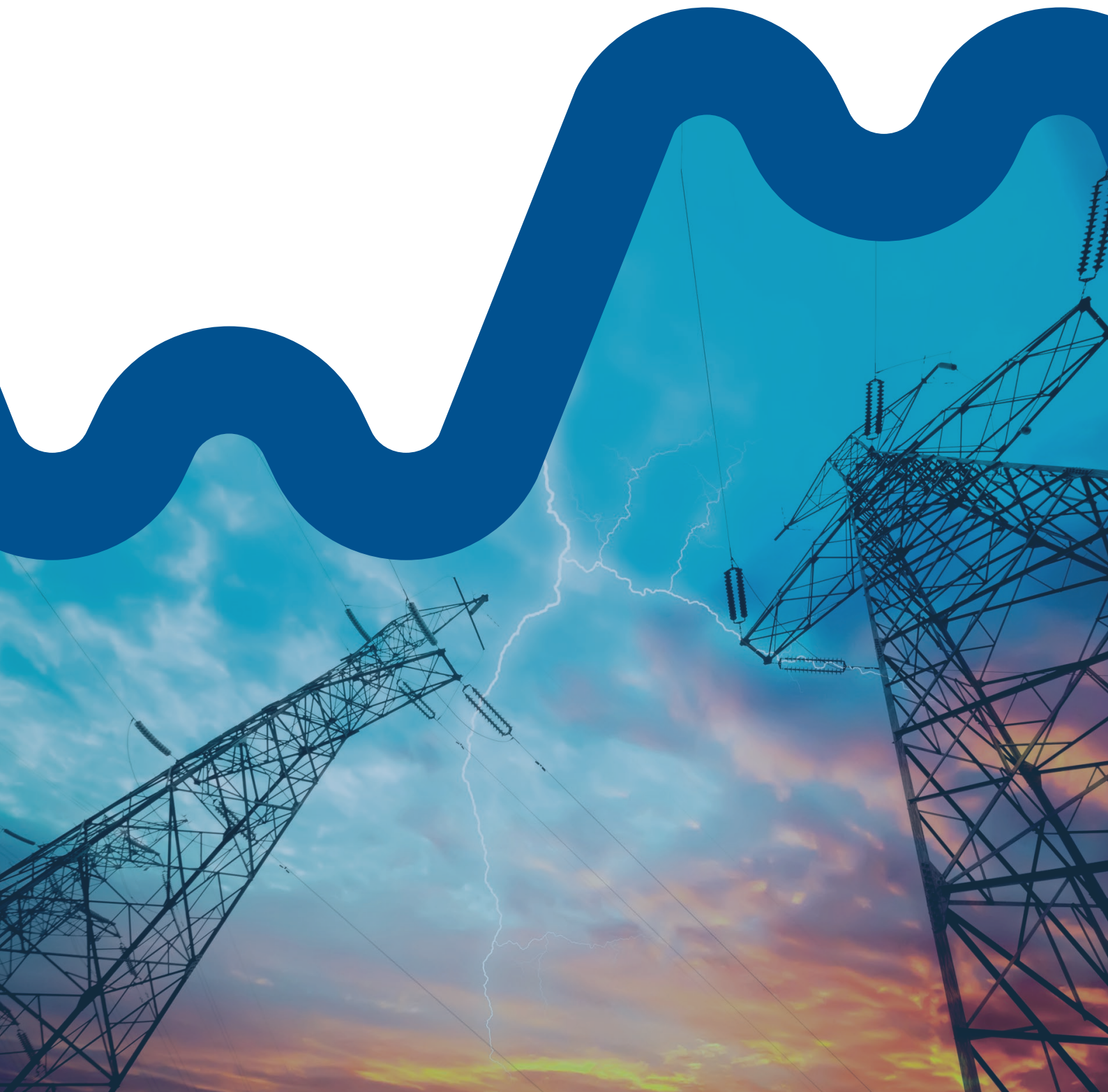


# Wemworld



## **WEM Srl**

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# ABOUT US

Wemworld is an Italian engineering company specialized in Smart grid systems and committed to deliver engineering and consulting services in the sectors of electrical, civil and telecommunications engineering in renewable energies, industry, micro grids and Electrical Mobility.

Our philosophy is based on the values of technology innovation, sustainability, professionalism and problem solving.

We can count on a team of professionals extremely agile and flexible, who offers a complete range of engineering and consultancy services always guaranteeing rapid responses and the highest level of quality.

**TECHNOLOGY INNOVATION**  
**SUSTAINABILITY**  
**PROFESSIONALITY**  
**PROBLEM SOLVING**

Wemworld joined projects in more than 20 countries, collecting a consolidate international experience and learning practical sense on-site. This makes Wemworld the perfect partner for EPC, IPP and Investments Funds looking for reliability and a deep technical expertise.

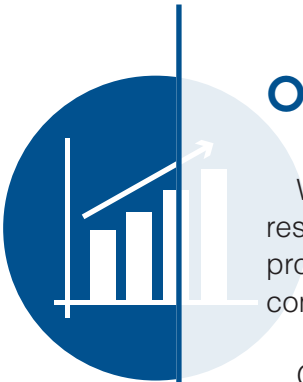


# SERVICES



# Engineering & Consultancy

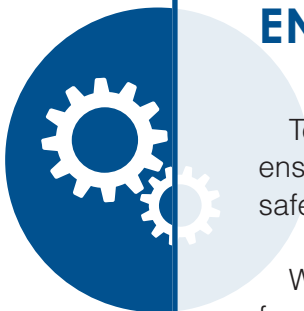
Wemworld's team is composed of **electrical, structural, civil, telecommunications and informatics engineers** with a consolidated technical expertise in preliminary to basic and detailed engineering for **renewable power plants, electrical systems (MV, LV) design and software development**.



## OWNER'S ENGINEERING

Wemworld offers to Companies without the adequate in-house resource the expertise required to develop a Renewable Energy project and a specialistic guidance during the development and construction phases all the way through to commissioning.

Our team of professionals can count on proven expertise and extensive project-based experience in Renewable energies and can guarantee to our Clients a significant value and risk mitigation, taking into account contingency modelling and O&M strategy across the full life of the project.

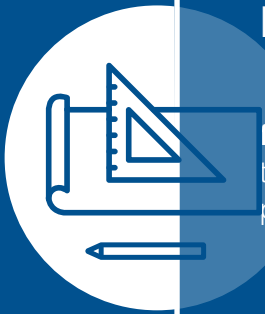


## ENSAYOS Y PUESTA EN MARCHA

Testing and commissioning is to be carried out on installations to ensure to developers in Renewable Energies that their projects are safe and meet the design requirements.

Wemworld offers a reliable testing and commissioning service for renewable energy plants, including the validation of Design specifications - Mechanical, Electrical, Telecommunications.

Test results are recorded and included in the Operation and Maintenance manuals to ensure that a record exists of all tests undertaken and that the necessary information is provided to enable the installation to be maintained to continue to deliver its designed performance.



## PLANT DESIGN

WEMWORLD professionals develop **preliminary and final plant designs** based on detailed site surveys, optimizing construction's costs and guaranteeing the best possible plant's generation efficiency.

We believe that a proper plant's design can be delivered only working closely with our Clients, proposing **multiple solutions** and mixing **technical skills** with a deep knowledge of **national legislations and standards**.



## DUE DILIGENCE

A Due Diligence investigation involves the analysis and evaluation of Renewable Energy assets or projects in order to determine the **actual status** of the facility or the **technical feasibility** of a project.

Wemworld provides Due Diligence reports for potential investors in projects worldwide, analyzing and evaluating all the technical aspects of a project or an asset prior to the acquisition of a company or an investment in it.



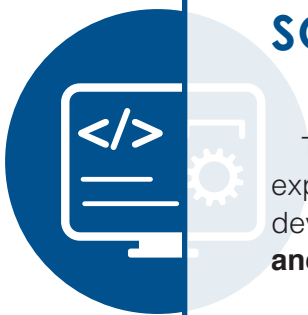
## SITE MANAGEMENT

Site managers are responsible for the day-to-day on site running of a construction Project.

Wemworld's professionals ensure that the high-quality standards defined in the design phase are maintained during construction, controlling the timescale and budget of a Project and **managing any delays or problems encountered on-site** during the construction.



# EFFICIENCY



## SOFTWARE DEVELOPMENT

Thanks to a qualified team of software developers and a deep experience in Smart Grid applications, Wemworld designs and develops **web based applications, tailored on customers' needs and targets.**

Example of applications:

- Microgrids simulation for design validation and optimal sizing;
- Applications for remote data collection, process and presentation for plants performance analysis and advanced reporting;
- Applications for time tracking of project's teams and people;
- Application for Electric Vehicles Charging Points management, for CPO and EMSP.

# TRACK RECORDS



## ABB LV Division



- Power Center for a Customer in Madrid
- Power Distribution Unit for a Customer in Barcelona
- Power Distribution Unit for a Customer in Warwick
- Motor Control Center for a Customer in Italy (for power plant in Argentina)
- Power Center for a Customer in UK
- Motor Control Center for a Customer in Birmingham

## Bellisolina



- Absorption and energy quality measures of a Shredder line
- Protection test against lightning strikes (CEI EN 62305 / CEI 81-10)
- Plant Electrical Manager according to CEI 11-27

## Bepower



- Technical advisory services
- Software development of the backend of the application for the management of Electrical
- Vehicles charge through Charging Points installed in Italy

## Ecodeco



- Shredder line electrical design
- Classification of hazardous areas – fire and explosion (CEIEN 60079-10 / CEI 31-30)
- Protection test against lightning strikes (CEI EN 62305 / CEI 81-10)
- Layout and certification of a distribution panel
- Short circuit calculation, electrical protections study and selectivity for a waste disposal facility
- Declaration of conformity





MORE THAN

20

COUNTRIES

## Building energy



- SCADA and Electrical Owner engineering and technical advisory services
- Owner engineering and commissioning of a 83MW pv plant in South Africa - Kathu
- Electrical engineering services and preliminary design of large scale pv plants in Chile, Qatar, Egypt, Italy, Morocco, Tanzania, Panama, US, Saudi Arabia, Djibouti for a total of 120MW
- SCADA design and commissioning for more than 200MW pv and 30MW wind
- Development of a MatLab tool for the simulation of active and reactive power exchanges in a microgrid, considering a random time interval, input and output from Excel©. The modeled and simulated elements include: photovoltaic, load, electrical storage, diesel generator, grid
- Company timesheet application development

## Energos



- SCADA Owner engineering and technical advisory services
- SCADA design and commissioning for more than 50MW pv
- Software development of a Web Platform based on PHP framework Symfony 1.4© and dedicated to the management and performance analysis of the plant's portfolio

## Fimer



- Electrical engineering services for cubicles design
- Technical advisory and SCADA commissioning of a 36MW pv plant in Zambia

## Future energy



- SCADA Owner engineering and technical advisory services
- SCADA design and commissioning for more than 20MW pv
- Software development of a Web Platform based on PHP framework Symfony 1.4© and dedicated to the management and performance analysis of the plant's portfolio

## Higeco More



- SCADA, electrical and civil engineering services including preliminary and final design of large scale pv plants in Qatar, Egypt, Italy, UK, Turkey, Romania, Tanzania, Panama, US, Saudi Arabia, Colombia, Chile, Argentina, Mexico for a total of 1GW+
- SCADA commissioning service worldwide. Most valuable projects: 2 slots of the 1,8GW Benban Solar Park in Egypt, 176MW pv in Panama, 40MW pv in USA, 16MW pv in Chile, 6MW pv Cooperativo in Costa Rica, 20MW pv in Uganda, 400MW pv in Italy

## Homes



- SCADA, electrical and software Technical advisory for INTEGRATED FACILITIES MANAGEMENT AND MAINTENANCE tools development
- Software development and project management for Homes proprietary Central SCADA platform

## Martifer solar



- SCADA design and commissioning for more than 40MW pv

## Stantec



- Microgrids feasibility study, design and simulations
- Photovoltaic plants feasibility study and site survey

## Teagest



- SCADA design and commissioning for more than 10MW pv



