



ELECTRIFICATION SOLUTIONS

GFM



GFM
FOTOVOLTAICA

25²⁰⁰⁰⁻²⁰²⁵
AÑOS

OBJECTIVES

Supporting NGOs,
Universities,
Governments, etc...



SUNINBOX PROJECT - EUROPE

SuninBox est une solution portable alimentée par énergie solaire qui intègre tous les composants nécessaires pour générer une énergie ininterrompue et sans émissions dans un conteneur certifié. Tous les mécanismes de fourniture d'électricité sont préinstallés, y compris le panneau photovoltaïque sur une structure mobile, pliable et modulable. Le projet a été financé par la Commission Européenne.

HARE PROJECT - ETHIOPIA

Installation of 20kW solar plant into container funded by the Spanish Cooperation (AECID). The system powers a remote rural village close to the eastern border, where there is not grid available. A plug&play hybrid system to power communities and pump water.



The logo 'GEM' is displayed in large, bold, black letters on the white facade of a modern building. The building has large glass windows and a clean, industrial design.

AIYU PROJECT - CHILE

Construction and design of an uninterruptible power generator integrated in a trailer, which all the equipment preinstalled to work in an autonomous way. The system consists of 2.5kWp solar power, 9kVA charger-inverter, and 40kWh lithium batteries. Ready to be supported by a genset or grid. The project was funded by the University of Chile.

UNITED NATION CONSULTANCY - ITALY

Consulting services for the design and certification of BESS off-grid solution into a container based on photovoltaic power. The system was thought to cover electricity needs in isolated refugee camps. For that, the performance must be developed in a PV-diesel hybrid scheme, matching with the daily power demands.



TAWASUL PROJECT - JORDAN

The project promotes the access to safe water near the Syrian border. The access was carried out with the installation of two atmospheric water generator, which are powered by the PV system. This solution is also responsible for the electrical supply of the center, reducing the grid dependence and the bill cost. The project was funded by the Spanish Cooperation (AECID).

WATENERGY 500 LITERS - SPAIN

Design and development of plug&play 40kWp PV power generator, which is configurated to operate atmospheric condensers that allow the generation of up to 500 liters drinking water daily. Instant transport and installation worldwide. The project was funded by the Castilla-La Mancha government (JJCM).



MATAM PROJECT - SENEGAL

Installation of three PV system to pump water in locations, which previously worked by diesel. The solar modules are placed on elevated pergolas to integrate electricity generation and agriculture in the same land. All the system performance could be controlled remotely with the integration of monitoring platform. The project was funded by the Spanish Cooperation (AECID).

CERER PROJECT - SENEGAL

5kW solar PV installation for the Centre de Recherche sur les Energies Renouvelables in the University of Dakar. The solution provides cost efficient and uninterruptible electricity to cover power outages in the center. The performance is controlled through the monitoring platform. The project was developed with the support of Interreg MAC 2014.2020 – COOPERA Programme – MACLAB PV Project.





PV SELF-CONSUMPTION - SENEGAL

The project introduces PV solar power in a Dalal Xel mental hospital in Thies, Senegal. The objective is to ensure proper medical care through stable, sustainable and affordable green electricity. The solution is composed of 52,2kW solar power installed on the building roof. The generation is primarily employed in the centre consumption, and excess power is stored in 30kWh lithium batteries to cover power outages.

SHAVINGBOX- SPAIN

ShavingBox is a solution to assume the power spikes which could not being covered by the grid. Power peaks require a large power asset to meet demands even though the nominal load might be much lower. The introduction of lithium batteries and inverter-charger in a portable container ensures the power supply even when the maximum peak demand occurs. The project was funding by the MOVES Singulares II Programme – IDEA.



SOLAR BACKUP - SENEGAL

Le projet favorise l'introduction d'un système de secours solaire photovoltaïque dans le centre de santé Louly Benteigne au Sénégal. La solution consiste en une installation de 4 kW de puissance solaire avec des batteries LiFePO4 de 5,12 kWh pour pallier les coupures d'alimentation. Ainsi, le système garantit une alimentation continue et stable basée sur les énergies renouvelables. Le projet a été financé par le gouvernement local de Villacañas et la Fondation GFM.

OBJECTIVES

Supporting
businesses and
homes



SUNINTROLLEY PROJECT. DOMINICAN REPUBLIC.

It is a portable solar-powered solution, which integrates in a certified trolley all the components to generate electricity anywhere. An uninterruptible and emission-free power generator in a portable package.



RURAL AIR BASE - SPAIN

PV solar-powered system installed in a firefighter air base where there is no grid available. Electricity demands are covered by the solar source, and excess power is stored into batteries for uses at night. Reliable electricity to power critical loads in complex contexts.



2021/5

OFF-GRID POWER STATION - SPAIN

10,05 kW solar power station to power a pumping system and commercial consumptions. The solution is placed on concrete floored-structure.



SOLAR PUMPING SYSTEM - SPAIN

50kWp solar pumping system to the accumulation in a reservoir. The PV modules are placed on a single-axis solar structure to maximise the solar production. The power is used to provide water in an agri-food industry.

POWER SUPPLY FOR EQUESTRIAN CENTRE - SPAIN

17kWp solar-powered solution to supply power to an isolated horse centre. The excess power is stored into the batteries to provide electricity during no radiation time. The solar modules are placed on a single-axis structure.



BACK-UP SYSTEM - ROMANIA

240kW PV system connected to the grid with batteries. The system is installed to have a back-up to cover prevalent blackouts, which obstructs the productive activity. After the installation, the client will improve his power supply and reduce his electricity bills.

OFF-GRID SYSTEM FOR LIVESTOCK INDUSTRY - SPAIN

10kWp solar-powered system placed on single-axis structure. The excess power is stored into 144kWh lead acid batteries. The performance is controlled by the monitoring platform.



WATENERGY 4500 LITERS -DJIBOUTI

Design and development of 50kWp PV power generator, which is configured to operate atmospheric condensers that allow the generation of up to 4.500 liters drinking water daily. The container has a complete monitoring system to analyse the performance remotely.



DAKAR BACK-UP SYSTEM - SENEGAL

15kW solar-powered system installed in a residential building with backouts and load-shedding. The system incorporates batteries to ensure non-interruption of the consumption. In addition, the performance is controlled remotely by the monitoring platform.





LIVESTOCK INDUSTRY - SPAIN.

24kW solar-powered solution installed in a remote livestock industry. The system supplies autonomous, emission free and interruptible electricity to cover the critical power requirements in the livestock facility. All the components are embedded in a portable container under a PV-diesel scheme.

GFM HISTORY



YEARS 2005-2012

Solar plant promotion / Solar plant maintenance

YEARS 2017-2018

First SuninTrailer development in Chile / Recognition as Innovative SME / INNOVA

YEAR 2019

APPA management boards / UUNN consulting services

YEAR 2000

GEA wind power was funded

YEAR 2014

SuninBox
H2020 development / Seal of Excellence by European Commission

YEAR 2020

Certification in accordance with SA800 standards / Recognition as Innovative SME by AENOR / First self-consumption project in Senegal / WatEnergy project / Syrian refugees aid project in Jordan with AECID

YEARS 2013-2014

First self-consumption projects / ITECAM member / First SuninBox Julia with AECID in Ethiopia

YEAR 2015

First participation in national and international exhibitions

YEAR 2018

First EV-charging point / Certification in accordance with ISO 9001 and 14001 standards / First consulting actions

YEAR 2004

GFM Photovoltaic creation

PROJECTS

SUNINBOX SUNINTRAILER SUNINTROLLEY WATENERGY



ALIENA

ASSOCIATIONS

PARTNERS

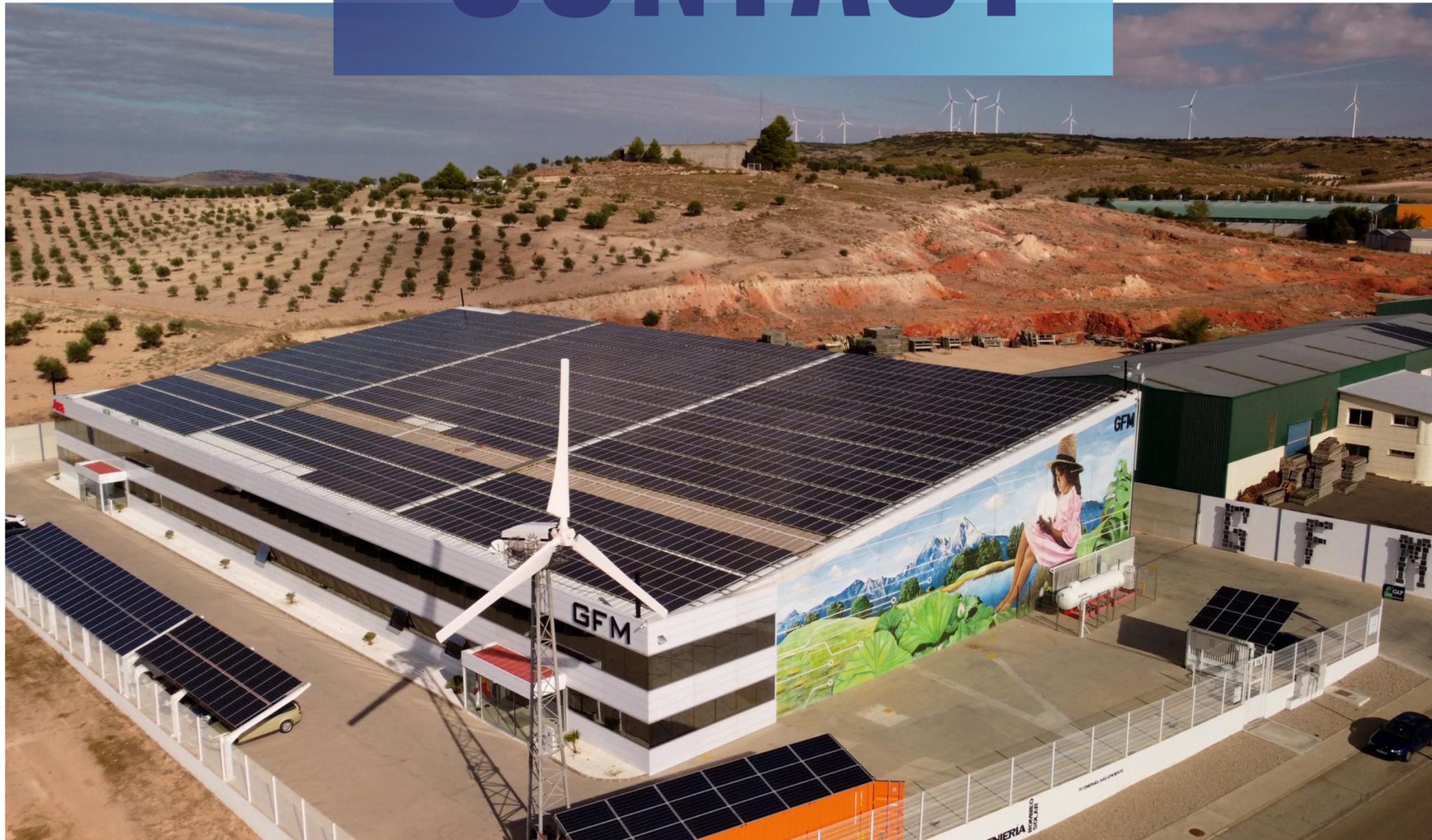


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CONTACT



info@gmfotovoltaica.com

www.gmfotovoltaica.com

+34 925 195 784

