System Off Grid
Renewable Energy Solutions for Remote Area

Engineering and consulting
Renewable Energy
Off-Grid Power Generation
System Off Grid is a French engineering company specialized in Renewable Energies and off-grid power generation.

Culture of the company is driven by expertise and know-how, solving electrification issues met by international project promoters for projects in remote area.

Main strengths of the company are its technical expertise, the adaptability of its services, and its complete independence.
Scope of activity

Rural Electrification

Facility

Island Electrification

Tourism

Off Grid Home

Agriculture

Renewables Energies and Off Grid Engineering
Technical Expertise

Hybrid Systems Solar / Wind Turbine / Diesel

Solar Kit - Individual installations

Uninterruptible Power Supply

Solar Water Pumping
Services

1) Project Support:

**Feasibility Study**
- Business requirements and project environment analysis
- Load curves metering
- Preliminary sizing of project
- Cost estimation

**Project Management**
- Final technical study
- Writing tenders
- Custom support for the installers company selection
- Market validation
- Follow up of project execution
- Work acceptance
- Project commissioning

**Maintenance monitoring**
- Users training
- Advice on maintenance
- Failure diagnosis
2) Technical Support for Renewable Energies firm

**Complete technical support**

- Customers study
- Support for tenders
- Product selection
- Development of solar kits
- Training courses
About **System Off Grid**

**System Off Grid** was founded by Clément Brossard, a French engineer graduated from Centrale School with a recognized expertise in renewable energy.

At Centrale Lille Engineering school, Clement has developed meaningful knowledge in electrical matters with specific insights on sustainable development. Following graduation, Clement worked for the technical department of one of the biggest international photovoltaic integrator in the Pacific zone. He has developed great local projects in rural and island electrification.

Committed to renewable energies, Clément came back in France and joined an actively growing French photovoltaic distributor. He started as an engineer in charge of customers technical studies within a dedicated team. The company took benefit from the rapidly growing solar market and became one of the leading PV distributor in France. Clément took the responsibility of the technical department and managed six engineers. During this period, about 50 MWp were sold under his responsibility: projects sold were located in France, in the UK and in Africa. Projects technologies covered grid connected and off-grid installations.

Clément actively participated in the design and development of a **new solution of PV roof integration**.

In 2011, Clément chose to develop his skills in an independent way, focusing on the historical applications of the PV industry: the off grid power generation. Clément founded **System Off Grid** offering in-depth expertise, humanly and technically rewarding services.
2012: System Off Grid

**Hybrid (PV/diesel)**
Middle East
• 7 projects: agriculture, irrigation, rural electrification. Feasibility Studies

**Solar Water Pumping for Irrigation**
Morocco
• Pumping/Irrigation 200 m3/jour: technical study and support for a solar solution

**Water treatment facility**
Cambodia
• Hybrid project: solar (200 kWc) / diesel (1000 kVA) - Feasibility study in progress. Evaluation of the maximal solar penetration rate

**PK Fluvial**
French Renewable Energies Distributors
• Complete technical support: e.g. off-grid house in south of France

**SA2EI**
• Design and conception of a complete Monitoring system for PV installations.
2011 : System Off Grid

Aguasmart
Waterpumping and treatment unit for off grid site
- Design of electrical part (PV 4935 Wc)
- Consultation of distributors
- Monitoring of the mounting
- Maintenance advice

Sablières Vendée
Mining site
- Feasibility study for the off grid power generation of the office
- Technical specifications
- Installers consultation
- Comparative with a exclusive diesel solution
Off-Grid:

- **Off Grid house**, Brittany - Study and costing, technical support
- **Solar Kits** (50 Wp to 2600 Wp), distribution on Africa - Design, specifications and marketing support. Implementation of a software supporting the customers choice
- **Off Grid solar system** (1600 Wp) electrification of a telecenter, Cameroon - Study and costing, technical support
- **Solar Hybrid system** (100 kWp)/diesel/batteries, electrification of a frontier post, Rwanda - Feasibility Study
- **Solar Generator (15 kWp)**, Saint Nicolas Island, Glenan Archipelago (Brittany), ERDF tender - Development of the technical solution, installers supports during the installation

2009/2011: Technical Manager VOLTEN

Renewables Energies and Off Grid Engineering

References
2009/2011: Technical Manager VOLTEN

Grid Connected

Study, costing, product selection, technical support. More than **50 MWc** installed under my technical responsibility, from 3 kWp homes to large-scale power plants.

Renewables Energies and Off Grid Engineering

References
Off Grid:

- **Solar Hybrid System** (500 kWc)/wind power/diesel - Hôtel The Brando, Tetiaroa Atoll - Feasibility Study
- **Hybride System solar/ diesel** atoll electrification - Tahiti - Participation to the mounting
- **Solar Autonomous system** Guest house - Polynesia - Study and costing

Grid Connected:

- **Certification** of the Connectis with French UTE C15 712
- **PV Grid connected power plants** (Huahine, Total Tahiti)
- **PV Power Plant 1Mwp**, Carrefour Supermarket Punaauia - Study and costing
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SARL au capital de 12 000 € - RCS LA ROCHE SUR YON 788 779 791

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