



# “eSolar” Offgrid Solutions

## Multi-Purpose, Turnkey Off-Grid Solar PV Solutions


eSolar is a family of pre-engineered PV power generation solutions allowing rapid deployment of off-grid solar arrays and power plants.

All eSolar components are optimally selected and tested to work together and provide the highest performance and reliability.

eSolar Offgrid is a plug and play off-grid solution with all components provided, allowing for quick assembly.

eSolar Offgrid Solutions are designed to optionally connect to diesel generators or step-up transformers when needed.

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**“Finally, an  
all-inclusive  
turnkey solar  
solution  
that is cost  
effective and  
easily installed  
without hassle.”**

# Why “eSolar Offgrid”?

## Global Gap in Energy Supply

With rapid demographic and economic growth, demand for electricity is ever-increasing, and with it the gap between energy supply and demand. Electricity production from fossil fuels is the largest source of greenhouse gas emissions and will continue to grow as more people are connected to the grid.

With the time and resources required to upgrade grid capacity, it is becoming harder for utilities to stabilize the availability of energy on the grid. In some countries, the supply-demand gap, and oftentimes utility mismanagement have led to a situation where utilities must ration available power through regular blackouts. At the same time, solar technology has reached very affordable costs, and has become the cheapest source of energy in many countries

## Worldwide Challenges

With utilities resorting to financial measures such as Time of Use billing (TOU), Capacity Billing, and Low Power Factor Surcharges (LPFS) to influence consumption, energy bills continue to grow higher.

Additionally, blackouts and brownouts create a burden and added expenses. Most of the time, people resort to diesel generators that are inconvenient on several levels:

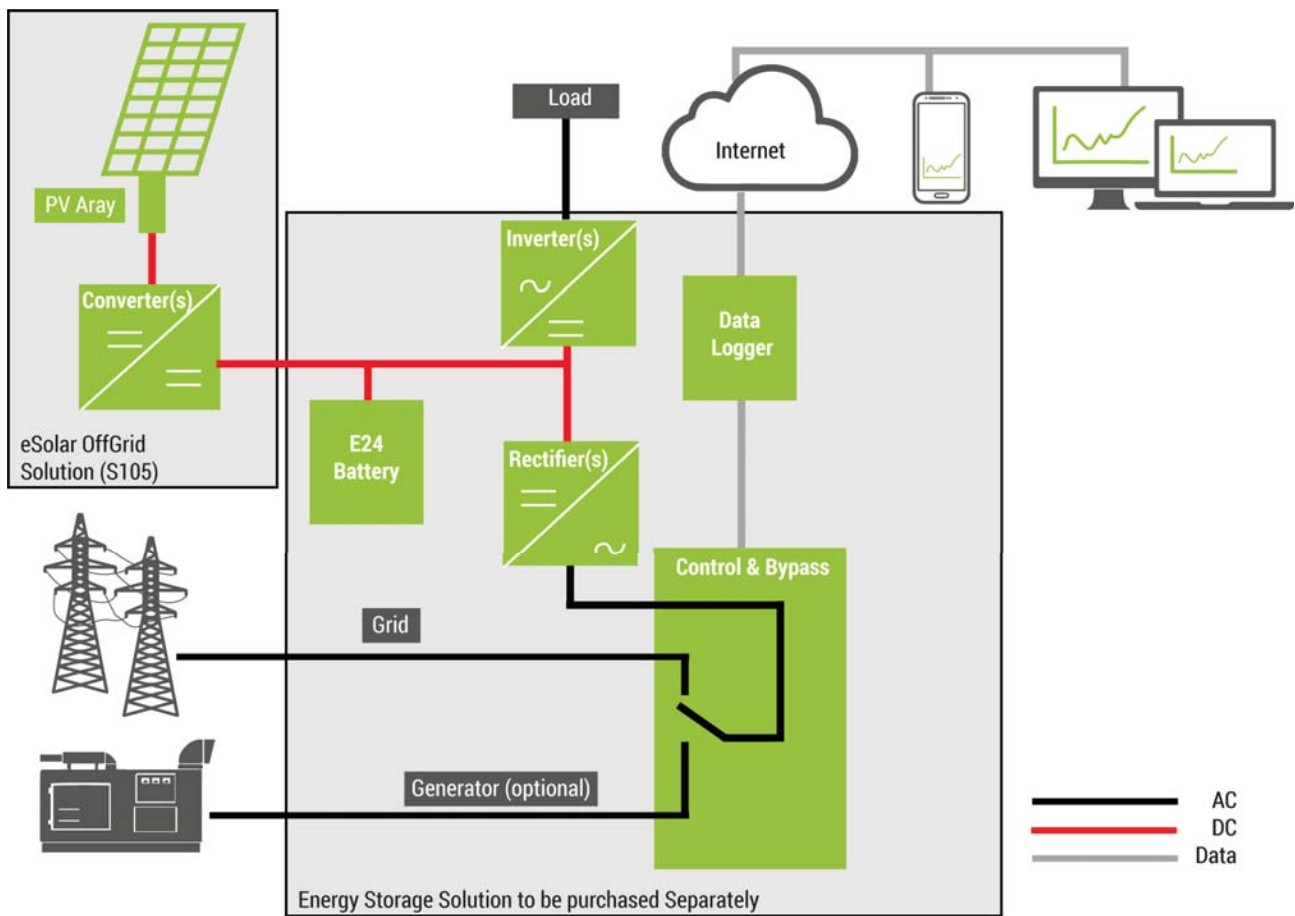
- They are costly to buy, refuel and maintain
- They create air and noise pollution and are harmful in residential environments
- They require space, regular maintenance and repetitive refuelling

## A Hassle-Free, Cost-Effective Solution

eSolar Offgrid is a simple and cost-effective approach that allows rapid deployment of an offgrid solar PV generation system to reduce your bills while lowering the burden on the planet. eSolar Offgrid guarantees substantial savings over fuel based alternatives while improving power quality, removing noise and environmental pollution, and limiting human intervention.



# eSolar Offgrid: A Better Concept



**eSolar Offgrid is a turnkey off-grid solar energy generation solution that can be installed on flat roofs, tiled roofs, pergolas or plain fields. Its demonstrated benefits make it stand out:**

## One Solution - One Vendor

Buying from different vendors can be problematic, with no assurance that components are perfectly compatible or tuned to supply the best performance. eSolar components are pre-engineered and pretested by E24 to make sure they are 100% compatible and optimally designed to supply the highest performance

## Easy Installation

eSolar Offgrid includes step by step instructions on how to assemble the PV solution. Any solar technician can install it by simply following the step by step instructions.

## Preventative Remote Monitoring

eSolar is cloud connected to our call center, allowing our server to continuously monitor the performance. This means E24 is able to immediately detect anomalies and take the necessary action to make you never lose performance on your investment.

## Best Warranty

E24 offers a comprehensive warranty on all solution components of the solution: 25 years on PV Panels, 15 Years on inverters and 5 years on all remaining parts.



# Designed for Your Needs

## Substantial Cost Savings

eSolar saves on energy bills, with a lower cost of operation compared to diesel generators. A substantial part of the cost of a solar PV system is in its engineering and logistics. With eSolar, these costs are immediately eliminated as it is pre-engineered and shipped directly to site.

## Eco-friendly image and values

Choosing solar energy demonstrates a commitment to lowering carbon emissions. eSolar improves your image, sending a message of environmental responsibility.

## Unattended operation and low maintenance

eSolar is a standalone system that requires very low maintenance. Its remote monitoring tools allow our technicians to ensure smooth operation and get notified in case of any issues.

## Silent and Clean

eSolar allows you to avoid the use of noisy, polluting diesel generators that release harmful gases.

## Adaptable & Compatible

eSolar is compatible with auxiliary power sources and includes smart technology to automatically start and control the load on available generators.

## Modular and Upgradable

eSolar's modularity means that it is possible to add more PV panels and inverters, dynamically growing with your evolving energy needs.

## Plug and Play

E24 technology is supplied in prepackaged kits that include all components. This allows quick, systematic assembly with no external components and no surprises.

# eSolar Offgrid Pays for Itself

eSolar substantially reduces your energy bills and pays for itself:

- eSolar Offgrid overcomes the need for expensive diesel generators and generator subscriptions.
- If coupled with a diesel generator, eSolar Offgrid will automatically start the generator in case your batteries are depleted and will also shut it down as soon as batteries are charged.

E24 has a range of funding partners in selected countries and can assist in financing your solar investment. Additionally, E24 may provide the energy analysis and supporting documents for you to obtain funding at the lowest costs.

## eSolar Offgrid Applications

eSolar Offgrid solutions are adapted to a wide range of applications, including flat and tilted rooftops and large fields. With eSolar Offgrid, it is possible to power your home, business, factory, or village by coupling it with an E24 Storage Solution.



# Remote Cloud Monitoring

eSolar includes a state of the art web management tool allowing you to visualize and closely monitor the sound operation of your energy solution, monitoring energy production and load consumption.

The control system logs data from solar panels, utilities, loads and optional generators. All data is recorded, and history can be downloaded for analysis, keeping you in control of your energy generation and spending.

eSolar is connected to the E24 cloud based monitoring system, allowing the technical support team to remotely manage your system and take immediate preventive action in case of anomalies, keeping your investment safe.



# E24 Quality Pledge



E24 is the result of 30 years' experience in the field of energy generation, conversion and storage technology. E24 designs and manufactures the most durable, efficient and reliable energy solutions on the market tailored for the most demanding applications and locations around the world.

E24 designs, engineers, manufactures, assembles, tests and delivers its solutions in modular components that are easy and cost-effective to assemble on customer's premises.

E24 commissions its solutions through a network of affiliates or business partners under strict quality standards and procedures to ensure the highest optimal performance and customer's satisfaction.

E24 continuously invests in R&D and develops its own proprietary technology. Each part of the energy solution supplied is optimized to bring the highest customer value.

All solutions are designed to bring a fast and headache-less capital recovery and high return on investment.



# E24 Comprehensive Services

Our turnkey approach is what sets us apart. In addition to our complete solutions, we offer a variety of services, allowing you to make the most of your investment:

- **Site Assessment Visits**
- **Energy Saving Analyses**
- **Feasibility Studies**
- **Structural Designs**
- **Multi-Level Training Programs**
- **Commissioning Services**
- **Financing Services**


E24 works closely with its clients to look at all aspects of their energy-related costs and performance, identifying opportunities for improvement and potential to lower overall costs.

E24 also offers a number of financing services allowing customers to pay for their equipment gradually and partially finance their investments from the savings they generate.

With support centers, regional offices, and knowledgeable personnel, E24 brings an uncompromising commitment to customer satisfaction. Our after sales services include:

- **Warranty Extension Programs**
- **Comprehensive Maintenance Programs**
- **Field Service**
- **Overhaul & Refurbishments**
- **E24 certified parts**

Our services are provided by engineers operating from E24 regional offices, allowing customers to benefit from accurate data based on relevant local field experience.



**Our Energy Consultants are here to answer all your questions.**

## Energy Storage Solutions



eHome



eVilla



eBuilding



eBusiness



eFactory



eVillage



eTelecom



eGrid

## Energy Generation Solutions



eSolar



eHybrid



eParking



eAgri

# Comprehensive Energy Solutions

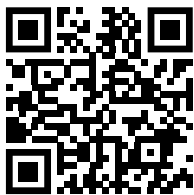
E24's broad portfolio of successfully completed projects ranges across a variety of sectors including Residential, Commercial, Industrial, Telecom and Governmental. We have built our reputation on our client focus and versatility to solve their problems. Our tailored solutions that place the lifestyle and needs of customers at their core. E24 leverages technology as a problem solver and enabler.

It is in this spirit that E24 develops targeted, personalized, seamless energy solutions for homes, villas, businesses, buildings, factories, villages, telecom and utility operators. E24 is constantly working towards enhancing the economics and lifestyle of its customers while saving on the planet.



**E24<sup>®</sup>**

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QUALITY STANDARD

