

MEET YOUR NEW BUSINESS PARTNER: THE SUN.



REDAVIA enables businesses and communities to harness the power of the sun with its solar farms. Our pre-configured solar energy solutions are cost-effective and highly-efficient, providing energy at a cost lower than grid power or diesel alone. Operational agility is key for all our customers, so we offer flexible lease agreements with minimal upfront investment, along with modular scalability.

OVERCOME YOUR ENERGY CHALLENGES.

We cover a number of sectors, such as agrofoods processing, manufacturing and mining & minerals, as well as hospitality & real estate, service infrastructure, communities and utilities.

In West and East African regions, these sectors face many energy challenges. Businesses struggle with unreliable grid power and/or expensive diesel and need more cost-effective solutions, all the while establishing eco-friendly practices. We work together with our customers to overcome these challenges and establish an efficient, affordable and clean energy supply.

Redavia provides the perfect solution for a variety of sectors



Agrofoods
Processing



Manufacturing



Mining &
Minerals



Hospitality
& Real Estate



Service
Infrastructure



Communities



Utilities

HOW DOES IT WORK?

1

Assembly

Our Units are assembled and packed into ISO-standard shipping containers with full 3rd party Quality Assurance checks.



2

Shipping

The solar Unit is shipped to the port nearest the customer site.



3

Transport to site

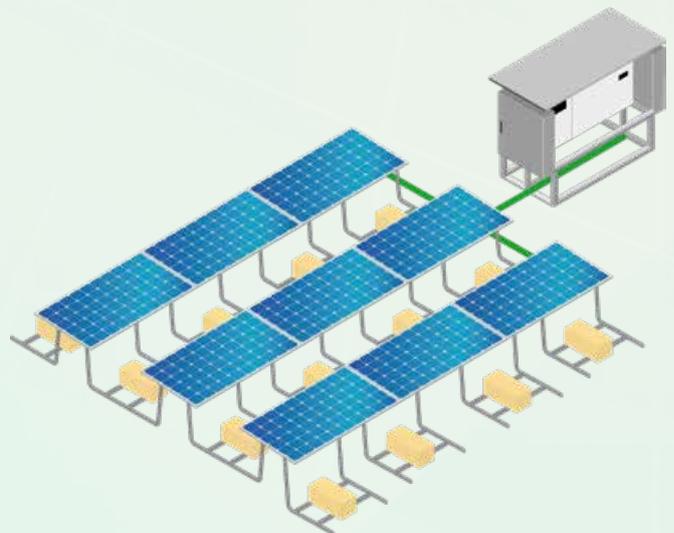
After the Unit clears customs, it is picked up from the port by our road freight partner and transported to the customer site.



4

On-site assembly

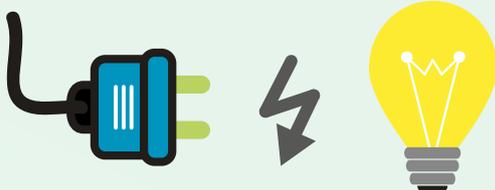
Once on-site, the container is unloaded and the entire solar farm is set up and overseen by a solar engineer, within a few days.



5

Affordable, clean energy

As soon as the simple and fast implementation and commissioning process is complete, the client will be provided with cost-effective, clean, reliable energy.



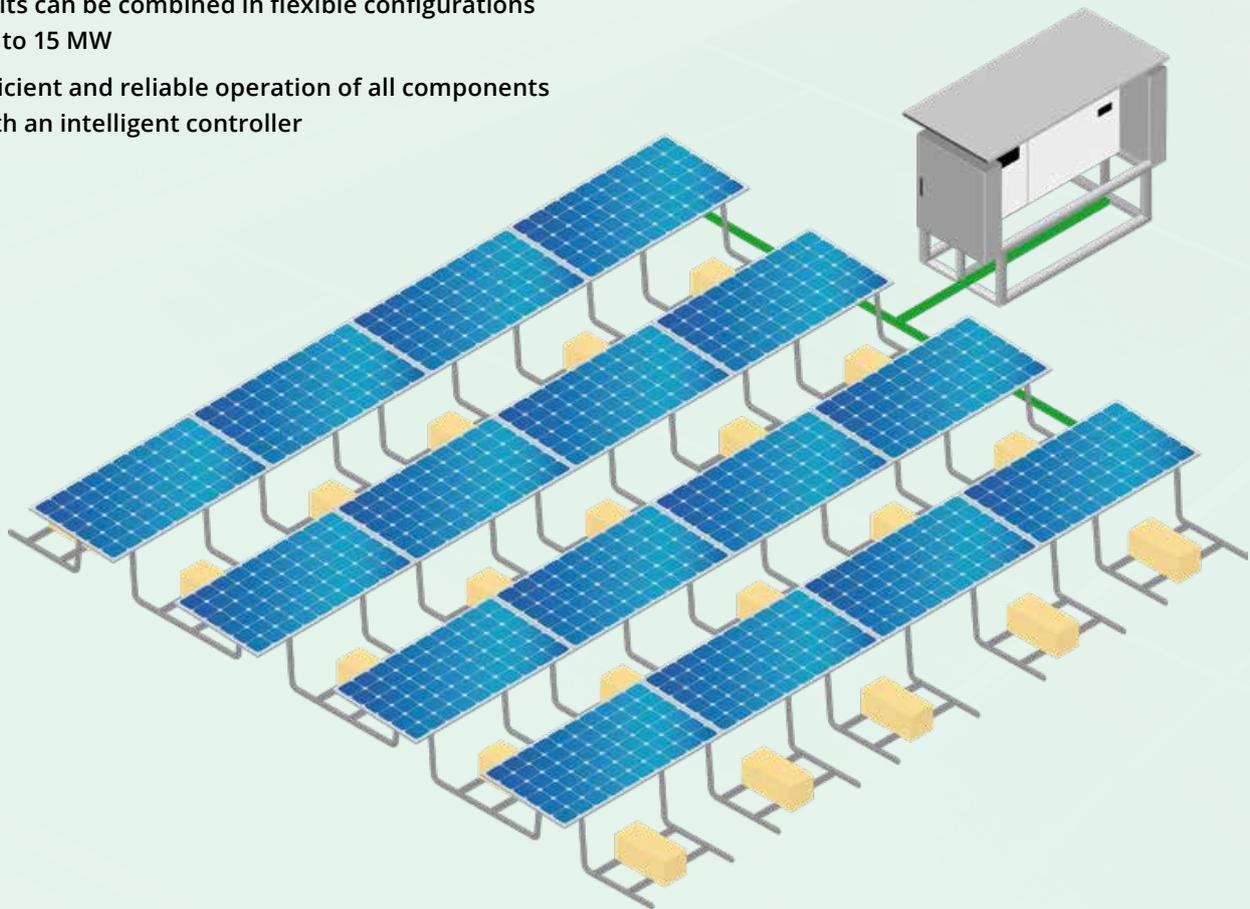
SMART MODULES FOR AN INTEGRATED SOLUTION.

Each solar farm Unit comprises 300 high-performance solar photovoltaic panels arranged in 16 rows on ground-mounted ballasted aluminium frames with integrated cable management. Inverter stations are pre-assembled using high-quality electrical components. Units are shipped in ISO-standard containers with 3rd party pre-shipment packaging Quality Assurance.

This fully pre-configured, productized approach to solar enables REDAVIA to achieve the highest quality standards. All Unit components are subject to in-depth inspections along the supply chain, before transport and after on-site installation.

Solar Generation Module

- The Fast Track Solar 80 Compact Unit is pre-configured with 80 kW AC output and 84 kWp DC capacity
- Units can be combined in flexible configurations up to 15 MW
- Efficient and reliable operation of all components with an intelligent controller



Energy Storage Module

- Stores all additional solar energy to be used at night or during low irradiation days
- Supports or replaces a solar-grid-connected or solar-diesel hybrid system and enables higher solar energy penetration

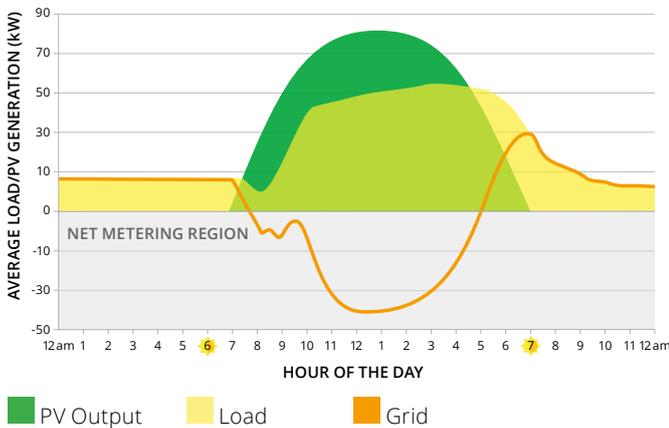
SEAMLESS INTEGRATION.

Our solar farms integrate seamlessly into existing infrastructures. Together with the public grid or diesel generators, as well as with or without batteries, our solutions form a more cost-effective, reliable and clean energy system that supplies continuous power. The hybrid system uses top-tier grid performance, allowing solar inverters to ensure the solar farm feeds in energy at a synchronized frequency. REDAVIA controls the output power specific to network requirements to constantly run the system components in a safe and efficient mode. The inverters, transformers, switchboard and additional components comply to international standards according to power quality and security.

ON-GRID SOLUTIONS: ENHANCING POWER.

Grid-led solar solution

At sites that are connected to the main grid, solar is fed in "behind the meter" to directly power the site and reduce the amount of energy obtained from the grid. This can be combined with a "grid + diesel backup". That is, grid plus solar when the grid is available, or on-site diesel plus solar when the grid is down.

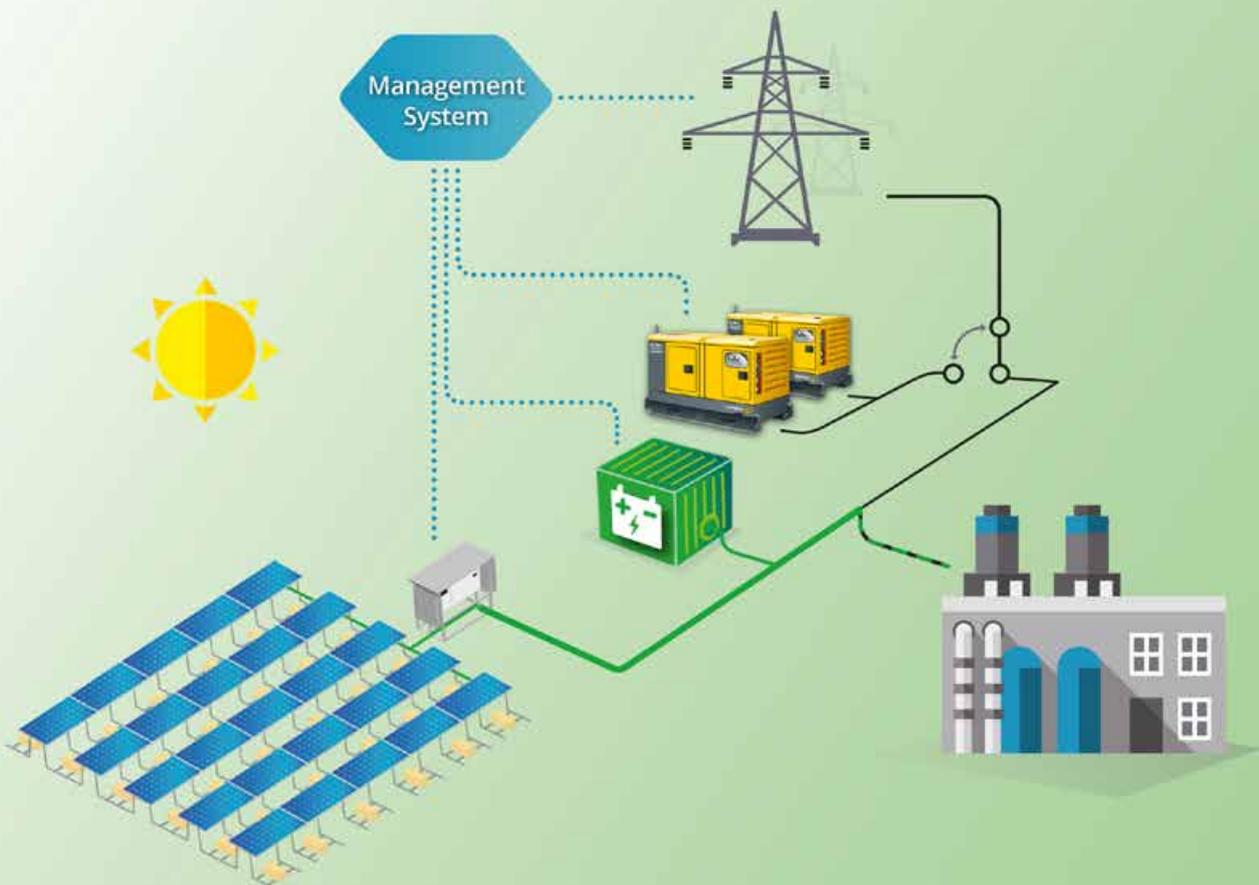


Cut-the-cord solution

If the site fully eliminates a grid connection and becomes entirely self-reliant, it only uses energy that is locally generated almost entirely from solar. By adding the Energy Storage Module, the solar energy produced during the day can be stored and used at night, without any grid contract. This saves money and creates near-100% supply reliability and near-100% renewable power supply.

Net-metering solution

If the solar setup produces more electricity than the customer needs, the excess electricity can be added to the national grid in certain countries and the customer receives credits. Every year, energy-related, variable charges from the utility can be eliminated. Grid outages also require a battery or an on-site diesel generator as a backup.





OFF-GRID SOLUTIONS: SUPPLYING POWER.

Solar-diesel hybrid solution

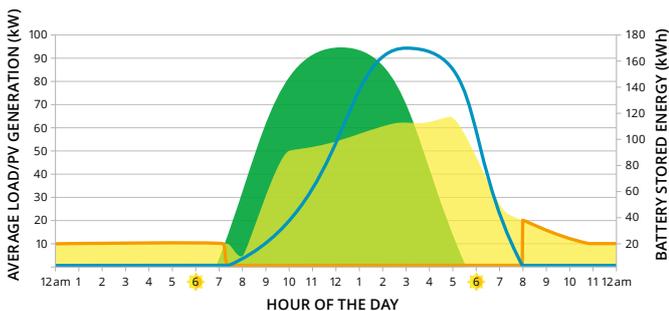
Our solar farms can fulfill large and small electricity needs by reliably supplementing existing diesel generators. The resulting hybrid system significantly reduces costs and carbon emissions.

Energy storage-supported solution

For larger off-grid users with moderate diesel-energy prices, our Energy Storage Module can be added to support the solar-diesel hybrid system. This enables higher solar energy penetration, maximized savings on diesel fuel and additional CO₂ reductions.

Energy storage-led solution

Our Energy Storage Module provides enough energy storage capacity to enable 24/7 electricity supply from solar. This module can also support the solar-diesel hybrid system, enabling higher solar energy penetration and increased reliability, while maximizing savings on fuel and generating additional CO₂ reductions.



■ PV Output ■ Genset
■ Load ■ Battery Stored Energy



BENEFIT FROM DAY ONE.

REDAVIA solar power delivers immediate benefits in many ways, especially when it comes to cost-effectiveness and near-100% reliability of solar power provision. REDAVIA's solar farms can often support or replace weak grids and also help reduce reliance on diesel fuel, which means less CO₂ emissions and more financial savings. Flexible lease terms require only minimal upfront investment, while our turnkey model delivers a fast, efficient and scalable service that is cheaper than any current power provision. On top of all that, businesses and communities can establish sustainable, eco-friendly practices.

COMMITTED TO SEAMLESS OPERATIONS.

At REDAVIA, we aim for operational excellence. That is why our technology is constantly evolving to include new innovations, more power and smarter features. Our experts also manage the entire process, from technical feasibility to pre-assembly, installation and maintenance, using state-of-the-art digital process management systems. We provide 24/7 monitoring, regular maintenance and emergency support for continuous optimization. Furthermore, we have founded the REDAVIA Academy with the aim to train local personnel to become fully proficient in deploying and maintaining our systems.



REDAVIA GmbH
Herzog-Wilhelm-Str. 26
80331 Munich
Germany
phone: +49 89 2426 8869

REDAVIA Ghana Asset Ltd.
19 Kofi-Annan-Street
Airport Residential Area Accra
Accra GA/R, Ghana
phone: +233 (0) 307 002 054

hello@redaviasolar.com

www.redaviasolar.com

REDAVIA
SOLAR POWER