Empower. Economic and Safe.

Electrification for Remote Communities and Villages

Renewable energy supply with next generation technology

autarsys

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Vision Electricity for Everyone

We are passionate about the sustainable supply of energy using renewable energy (RE) systems. Presenting a much more cost-effective solution in off-grid regions, experience shows that energy storage has been one of the weak links in these systems. By offering high quality AC grid power to the entire community as an alternative to widely used small DC solar home systems for a few people, we want to contribute to make RE pre-dominant and for everyone.

Application Micro, Mini and Off-Grid

Globally over a billion people still lack access to electricity. Over 80% of these people live in rural areas. Extending the grid to such areas is economically impractical owing to the huge transmission and distribution costs, not only because of their geographical isolation but also their sparse population. It has been shown that mini grids and off-grid renewable energy systems with battery energy storage present a sustainable, efficient and cost effective solution to this problem. Pico systems at first sight seem to be inexpensive, but the specific cost of electricity is high. Mini grids traditionally rely on polluting diesel generators (DG) for peak production, which are expensive, inefficient and damaging to the environment. As a specialist, Autarsys offers a robust and precisely engineered Energy Storage System (ESS) which houses an intelligent energy management system. Unlike a DG, these systems are highly flexible and efficient during all modes of operation and ensure that electricity is also fed at low loads when supply is insufficient, especially at night times.

The Autarsys ESS offers the added advantage of being modular, such that the energy capacity can be easily scaled to not only supply to anchor load applications such as water pumps, remote telecommunication towers, street lighting etc. but also incentivize residents to use appliances with higher wattages. The ESS is also designed to readily integrate with the grid, as and when it arrives.







Product Autarsys Mini Energy Storage System (ESS)

Typically suited for electrification needs in villages, the Autarsys Mini ESS comes as a sealed "Plug & Play" system which is easy to install. It is a specialized solution for harsh weather conditions and is designed to operate at stable conditions that prolong lifetime in spite of high ambient temperature, dust and humidity, thereby requiring negligible maintenance.



Pay as you Go Energy when and where you want

Remote regions far away from the grid lack basic infrastructure. Mini and micro grid operators face difficulties in receiving payments for the energy delivered to consumers. The Autarsys ESS communication platform integrates smart meters with the Simple Payment Verification (SPV) system, enabling seamless energy delivery and a transparent payment method for it's customers.



Global Presence Where we are on duty



Ancillary Tailored Service and Support You can rely on us

Analysis & Engineering

Load profiling and forecasting energy demand

Evaluation of the grid and renewable energy sources

Sizing the energy storage system

Installatio

Adaptation of communication interface and system power

Commissioning

Onsite O&M training for technical personnel

Operation & Maintenance

Remote monitoring of system performance

Provide online support for troubleshooting

Comprehensive hardware, software and spare part management through product lifetime

autarsys

Make your own energy.

Contact

Headquarters Autarsys GmbH Johann-Hittorf-Str. 8 12489 Berlin, Germany

mail@autarsys.com Phone +49(0)30.609849800 www.autarsys.com Autarsys Eastafrica Ltd. Nairobi, Kenya info-ea@autarsys.com

Autarsys India Pvt. Ltd. Bengaluru, India info-india@autarsys.com Autarsys Westafrica SARL. Yaoundé, Cameroon info-wa@autarsys.com

Autarsys Madagascar SARL. Antananarivo, Madagascar info-madagascar@autarsys.com