

SOVENTIX implements solar hybrid project with local partner in Bolivia

- SOVENTIX implements a photovoltaic hybrid system with a nominal module output of 426 kWp and a 60 kW/67 kWh lithium battery storage system
- Construction of off-grid system with battery storage in El Sena, Bolivia

25. October 2018, Santiago/Wesel – SOVENTIX GmbH, an international project developer of solar power plants, has successfully installed a solar hybrid system with a rated output of 426 kWp in the north-eastern Amazon region of Bolivia. The project was realized in cooperation with the local partner SIE SA. In a locally founded partnership, projects for integrated solutions of energy services with a focus on renewable energies and hybrid technologies are implemented together with the partner. The SIE-SOVENTIX partnership was awarded the contract for the project in February 2018, as part of a public tender issued by a large state-owned energy supplier. Construction of the plant started in April 2018 after the local rainy season.

The hybrid plant of El Sena is located in a region with difficult access, which represented additional engineering and logistic efforts to the contractor. The project consisted in supplementing the existing diesel-based power generation with a photovoltaic and a lithium battery system and their respective control system. In the medium term, the hybrid system is expected to save approx. 130,000 litres of diesel per year. The hybrid plant ensures the power supply of the whole village, with over 2,500 inhabitants, through the interaction of photovoltaic panels and a battery storage system as well as the existing diesel generators. The battery system serves to bridge the gap for a short time so that the diesel generator can be operated at minimum power at the time in which enough solar irradiation is available.

Due to the increased complexity of such a system, the focus during commissioning was on the integration of the individual components of the hybrid system and the software which respectively coordinates their communication and control.

"The solar hybrid system is the right off-grid solution for the hard-to-reach village of El Sena. The village is located three hours from the nearest airport in the Bolivian Amazon region on the Rio Madre de Dios. The material supplies for the plant therefore came only via sea freight until closest port and then transported via poorly paved access roads to El Sena. The plant is optimally aligned to the local conditions. By supplementing the photovoltaic system with a battery system, the existing diesel generators can be effectively complemented. This will save emissions and costs in the future," adds Daniel Rojas, Project Manager at SOVENTIX Chile SpA.

In El Sena, there is, among others, a sawmill and a processing and storage facility for the local Brazil nut harvest, both of them having high electricity demands. The harvesting of Brazil nuts is the driving economic factor in this region.

About SOVENTIX GmbH

SOVENTIX is a leading global project developer in the solar industry. The core business is the development, turnkey realization and financing of high-yield solar parks and hybrid plants for institutions and companies. Furthermore, SOVENTIX holds a portfolio of high-yield solar parks providing the company with stable cash flows. The project developer has access to a project pipeline of more than one gigawatt in different phases of development on four continents. The activities of the eight offices of the SOVENTIX-group in South Africa, Nigeria, Canada, Chile, Great Britain, USA and the Dominican Republic are coordinated and controlled centrally by the head office in Wesel, Germany. Learn more about SOVENTIX at www.soventix.com.

About SIE SA.

SIE SA. is a private company founded in mid-2001 on the initiative of a group of professionals who have created the need for a company to provide integrated solutions for energy services with a focus on renewable energies.

The company has a top-class multidisciplinary team with extensive experience in subjects such as rural electrification, energy audits, training programmes, technical support, product distribution, etc.

The formation of strategic alliances with companies with complementary capabilities has enabled us to strengthen our offering in the marketplace by offering high quality products and services at competitive costs.

More information can be found at: <http://sie-sa.com/>

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