Case study
CASA DE LA MUJER – CHEJURU (SARRAPIA)
Colombia

The challenge
10% of Colombia’s 49 Million population live in the country’s border areas without access to the national grid. Power supply in these areas is typically generated from community diesel generators that supply power for a few hours a day when diesel is available.

The small textile factory "Casa de la Mujer - Chejuru" in the Selva del Mataven Unified Indigenous Reservoir (composed of 92 communities), is only accessible by boat during the winter when the water level in the rivers are high enough for transports. During summer the supply of diesel is scarce and it is impossible to generate electricity, even for a few hours. For a sustainable development of these areas Colombia’s government has launched the initiative “Plan Fronteras para la Prosperidad” led by the Ministry of Foreign Affairs. The goal is to encourage the development of income generating companies creating a financially sustainable solution over time by providing a reliable and continuous power supply during the working day through off-grid electrification.

Why STUDER
STUDER is a recognised brand in solution systems for isolated installations owing to the robustness and reliability of its equipment, as well as the high integrability of its equipment for optimal operation and local monitoring. The most important reasons are that they feature a very low fault level and an operating logic designed and developed to extend the life of the batteries.

The Solution
The 7 kWp PV system at "Casa de la Mujer – Chejuru" provides reliable and stable energy supply to power the operation of 25 sewing machines and two filleting machines to produce, market and sell clothing to the local population.

Project outcome
Project sustainability will be achieved through commercialisation of the produced clothes to nearby communities and additional economic benefits is obtained by sharing the electricity with the community’s other company "Cooperativa de Artesanos" sending handicrafts to local and international markets.

By encouraging the development of a durable financial solution for these communities the Colombian government also seek to counteract the deforestation of these areas vital for the environmental balance of our planet.

The Company
HEMEVA
Hemeva S.A.S has been supplying high-quality material and services to the industry since 1978. Due to their interest in the importance of the industry’s development and progress, in 2003 the company expanded its services with the creation of the energy and environment division. Hemeva specialises in the turnkey structuring and implementation of generation systems based on renewable energy sources, mainly in non-interconnected zones (ZNI) and vulnerable communities.

For more information please contact:
Studer Innotec SA
www.studer-innotec.com / alain.perez@studer-innotec.com
Studer Contact: Alain PEREZ
HEMEVA
www.hemeva.com

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