SOLAR GREEN ENERGY CAMBODIA

Solar-powered irrigation for Cambodian farmers

A COMPANY SUPPORTED BY:

innovations against poverty

COMPANY SNAPSHOT
Country: Cambodia
Year Founded: 2014
Sector: Agri-Food & Energy

WHAT WE DO:
SOGE provides affordable solar-powered irrigation and clean energy solutions for smallholder farmers in Cambodia.

RELIABLE SOLAR IRRIGATION FOR BETTER YIELDS

Smallholder farmers in Cambodia face high costs and unreliable performance from diesel-powered irrigation pumps, limiting their productivity and incomes.

SOGE works with low-income farmers in poverty-stricken areas, replacing diesel-powered pumps with **affordable solar-powered irrigation systems.**

SOGE was founded by a group of Cambodian technicians, and offers innovative products that enable farmers to **irrigate their land year-round, at lower costs and more reliably.**

Their products include water irrigations stations, solar water pumps with sun-tracking technology, smart irrigation apps, and maintenance services.

Success Spotlight:

Before partnering with SOGE, the Kampong Krasang Leu community relied on costly, unreliable diesel generators that frequently broke down, disrupting irrigation and reducing crop yields across 60 hectares of farmland. In 2021, SOGE installed a solar-powered water pumping station with a 15kW solar array and a 11kW (15Hp) pump, delivering up to 2,000m³ of water per day. As a result, 61 farming households have been able to grow rice twice per year, with increased productivity, reduced costs, and improvements in their overall quality of life.

INNOVATING TO BEST SUPPORT CAMBODIAN RICE FARMERS

Since 2014...

680+
smallholder farmers using solar-powered irrigation from SOGE

2,000+
hectares of rice paddy irrigated with SOGE products

50%
lower operational cost compared to diesel pumps

To provide their products at the lowest cost and ensure that their solutions are tailored to the specific needs of local farmers, SOGE **manufactures key components** in-house, such as charge controllers, sun trackers, battery balancers, and smart irrigation components.

In addition to product development, SOGE offers **reliable technical servicing and maintenance** packages to guarantee the long-term efficiency and sustainability of solar systems, and provides **solar technical training** to farmers, product distributors and technical trainers.

With the global market for rice production forecasted to reach **$360 billion by 2030**, SOGE is uniquely positioned to continue expanding affordable solar-powered irrigation solutions to Cambodia's rice sector.

Funding to date:
$552,000 USD

Funding needed:
$5 million USD

2024 Revenue:
$575,000 USD

2024 EBTIDA:
$190,000 USD

SOGE aims to expand its solar-powered irrigation services to rice and horticulture farmers across Cambodia, with a goal of irrigating **10,000 hectares of land b**y 2026. The company seeks partners and capital to scale product delivery, strengthen technical servicing, and increase access to affordable, clean energy solutions for smallholder farmers.

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Managed by: SNV

In collaboration with: Inclusive Business Partners, bop inc

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