

SOGE

Phnom Penh, Cambodia



According to a UNDP report (2019), Cambodia has significant solar energy potential, offering an opportunity to tap into more energy with its abundant sunshine, with the daily amount of solar energy equivalent to five kilowatt hours per square meter which is considered “very robust.” Solar energy is already the cheapest source of energy in Cambodia, with lower capital and operating costs compared to other sources, according to a study by EnergyLab. Despite this, solar power accounts for only 7% of electricity generation in 2021.

SOGE provides technical support, quality products, maintenance services and solutions of renewable energy technologies in Cambodia. Its main products include solar water pump system, solar hybrid system, smart irrigation, off-grid and back up solar energy system. The company also manufactures sun tracker, battery balancer and charge controller. SOGE targets mainly farmers, factories, water irrigation service providers and rural households.

Founded in 2013, SOGE currently employs 33 staff, 30% of which are women.

“Women are ready to participate in the clean energy sector for the transition to a greener environment.”

— Kheav Thida, CEO of SOGE Company

CAMBODIA SDG INVESTOR MAP ALIGNMENT



SECTOR
Renewable Resources
and Alternative Energy



SUBSECTOR
Biofuels



INVESTMENT OPPORTUNITY AREA
Solar Photovoltaic System

KEY DATA (in USD)



	Revenue	EBITDA
2022	480,310	44,625
2021	366,870	95,605
2020	163,950	-23,174

SOGE IS LOOKING FOR



- **USD 2 million** of funding in debt or equity.
- Partnerships with organizations to provide technical and advisory support and entities sharing the same vision and mission to support their expansion.

CHALLENGE

Cambodia relies on hydropower and fossil fuels to generate energy, accounting for 52% and 41% of total capacity, respectively. This heavy reliance on hydropower has caused frequent power outages in the country during dry season due to low levels of water in rivers and reservoirs. While solar energy is considered among the cheapest source of energy, the upfront costs, makes it unaffordable for many subsistence farmers, who make up most of the rural population in Cambodia.



SOLUTION

SOGE's contribution to green energy transition in Cambodia, particularly in the agricultural sector, comprises:

- Solar water pump
- Solar irrigation station
- Solar on-grid and off-grid system
- Mini-grid system
- Solar hybrid system
- Solar street lights

The company also manufactures sun tracker, battery balancer, charge controller and provides installation, repair and maintenance services.

INVESTMENTS



USD 50,000

Raised in one round of fundraising.

IMPACT



1000 families
with water access



3641 families
with electricity access



20-50% increase in income
and up to 30% increase in
food production yield for
farmers



70% women
in c-suite positions
sequestered

SCALABILITY



Farmers make up the largest share SOGE's customer's base. In the next 3 years, the company plans to supply farmers in the agriculture sector of Stem Water Potential (SWP) and smart irrigation systems (SIS) in the other Cambodia provinces to reach 5 000 to 7 000 ha and over 1500 farmers. On the long run, SOGE envisions to extend their renewable energy solutions to neighbouring countries including Myanmar, Lao PDR and Indonesia.



LEADERSHIP

Thida Kheav, Founder and Owner, founded Renewable Energy Development Association to provide green energy solutions to commercial farms from 2008 to 2023. She founded Solar Green Energy (Cambodia) in 2013.

AWARDS



In 2022, SOGE received the Clean Energy Award, recognizing their significant contribution to Cambodia's transition toward clean energy development. In 2023, SOGE was awarded the Superstar Inclusive Business Award by Oxfam, in collaboration with the Cambodia Ministry of Industry, Science, Technology and Innovation and Khmer Enterprise. Additionally, SOGE had a reputation for participation as one of the speakers in the 2024 ASEAN-Australia Special Summit "Climate and Clean Energy Transition Forum"; this event SOGE had the opportunity to share the clean energy sector in Cambodia and especially what SOGE is doing or impacting people or smallholders in the rural areas.

PARTNERSHIPS



MORE INFORMATION

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