



SEED Initiative

supporting entrepreneurs for sustainable development

Founding Partners



LOW CARBON WINNER 2013

Southeast Asia Renewable & Adaptive Energy (SEA-RAE) provides sustainable energy infrastructure for small, remote communities in Southeast Asia. It supplies grid technologies such as photovoltaic arrays and hydro-energy harvesters that are adapted to the needs of local communities and increase their resilience to climate change.



Southeast Asia Renewable & Adaptive Energy, Vietnam

BUSINESS MODEL

SEA-RAE develops, installs and maintains small-scale renewable energy solutions tailored to the social, environmental and economic needs of developing communities. Its innovation lies in combining green technological solutions with affordable financing plans that encourage community ownership.


Initially designed for energy-poor communities in the Mekong Delta, the enterprise's energy technologies are also suitable for application in other areas of Vietnam and across the whole of Southeast Asia.


ENTERPRISE FAST FACTS

Location	Pho Ba Island
Year founded	2012
Sector	Renewable Energy
Product/Service	Renewable Energy Grid Systems

CONTACT

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 [berc.berkeley.edu/join/
berc-communities/sea-rae/](http://berc.berkeley.edu/join/berc-communities/sea-rae/)

Social impacts:

- Community empowerment and capital-building through local ownership of energy facilities.
- Reducing time and money spent on fuel collection, giving community members new possibilities.
- Improving health by reducing the inhalation of noxious combustion products from fossil-based fuels.

Environmental impacts:

- Eliminating kerosene and diesel fuels in the community.
- Educating communities about sustainable energy infrastructure and climate change adaptation strategies.
- Reducing emissions by approximately one ton of CO₂ per year per household in each SEA-RAE community project.

Economic impacts:

- Increasing labour productivity by providing reliable and climate change-adaptive access to energy.
- Developing a new mini-grid-based manufacturing in the region.
- Investing in environmental research and development to improve and expand energy infrastructure in Southeast Asia.

” SEA-RAE strives to empower community inhabitants via sustainable, renewable and environmentally resilient energy systems.

Scaling up activities:

- Step up community energy-use audits and resource availability analyses to identify improvement potential.
- Provide additional training to community members on the upkeep and maintenance of their energy systems and enhance the network of local partners.
- Improve financial planning – check consumer payment systems and find additional investors for further funding.
- Achieve full implementation of the systems at the concept site on Pho Ba Island by autumn 2014.



” The grid infrastructure offered by SEA-RAE is designed with particular attention to the strong impact of climate change forecast for Southeast Asia.



Partnership

● **Southeast Asia Renewable and Adaptive Energy (SEA-RAE) Berkeley** serves as a research hub for the international SEA-RAE enterprise. It is responsible for coordinating the international network and partners, and for developing the enterprise's energy and financial models.

● **Energy Conservation Research and Development Center** is the primary conduit between Vietnamese communities in need of energy provision services and SEA-RAE's US-based research hub.

● **Minh Tran Co. Ltd** provides solar panels and other components for SEA-RAE's infrastructure-building activities in Vietnam.



Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

The 2013 SEED Low Carbon Awards are supported by the International Climate Initiative (ICI) of the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU).

About the SEED Initiative

The SEED Initiative identifies and supports promising small scale social and environmental entrepreneurs around the globe, entrepreneurs who while working towards a greener economy also tackle poverty, marginalisation and social exclusion. SEED provides these entrepreneurs with know-how and networks, taking the lessons learnt at local level up to decision-makers to promote evidence-based policy making. For more information please write to info@seedinit.org or visit:

www.seedinit.org

Partners

CONSERVATION INTERNATIONAL



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With the support of the Finnish authorities



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