

Feasibility Study and Action Plan to Develop an Electricity System fed by Renewable Energy on An Binh Islet, Ly Son Island, Quang Ngai Province, Vietnam

Project Objective

The project aims at preparing a feasibility study and an action plan to raise financing for setting up an electricity system fed by renewable energy. The project pursues three overall objectives, which have been defined by Vietnamese Authorities as some pillars of the Vietnamese energy and sustainable development policies:

- 1) To supply electricity to all Vietnamese households.
- 2) To develop renewable energy
- 3) To reduce poverty and strengthen socio-economic development

Description

The project consists of a detailed feasibility study (FS), a FS approval request, stakeholder meetings, meetings with ODA donors and a project development strategy made available to stakeholders. Although the scope of the project is limited to pre-investment stage, it will further facilitate the financing, installation, commissioning, operation and maintenance of renewable energy equipment on An Binh islet. The electricity system will supply electricity to the whole population of the islet (100%), i.e. 497 inhabitants (106 households), with electricity needs assessed at 33,264 kWh annually.

Relevance to Country's Energy and Environment Policies

Electrification has been experiencing major achievements for the last 20 years. The "Electricity Development Master plan n°6" (2006 – 2011) sets up the following target: 95% of Vietnamese households should enjoy regular electricity supply in 2010. This target was reached as early as 2008, according to Electricity of Vietnam's (EVN) statistics.

Project Highlights

Project ID	: 3-V-020
Country	: Vietnam
Lead Partner	: Golden Bridge
Partners	: Institute of Energy of Vietnam, Department of Industry and Trade of Quang Ngai Province.
Total Project Cost	: € 47,500
EEP Financing (% to total project cost)	: € 35,000 (73.7 %)
Technical Focus	: Wind and solar
Activity	: Feasibility Study and Action plan
Duration	: 12 months

In 2011, about 95% of Vietnamese households enjoy electricity supply, against only 14% in rural areas in 1993. The objective of 100% households being supplied electricity in 2020 will require developing small systems in off-grid areas, such as islands. Therefore, this project is relevant to the Vietnam's energy and environment policies.



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Innovation and Knowledge Transfer

The project will promote utilization of renewable energy (wind, solar, hybrid systems) in off-grid areas. Although meteorological conditions are often favorable to renewable energy, related technologies are still scarce in Vietnam. The feasibility study will recommend using infrastructures and equipment meeting high quality standards, in order to make the project technically viable on the long term.

Beyond the use of innovative technology, the main knowledge that will be transferred from the project is that a coherent long-term strategy implemented by complementary partners is required to successfully develop electricity projects on remote areas. This model of partnership and working method is about to be replicated in all islands where electrification failed for organizational reasons.

For more information:

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