

Development and Demonstration of Multi-Fuel Supply Chain for Power Plants and Industrial Boilers in Vietnam

Project Objective

The main objective of the project is to develop and demonstrate an effective and reliable biomass supply chain based on multi-fuels for the combined heat and power plants.

Description

To achieve its main objective, the project is divided in five parts: a) the current supply technologies and supply costs will be analyzed in Vietnam. b) the supply technology will be developed. The development is made in three case studies in Vietnam. c) case studies will be selected based on the companies' interests and plans to construct power plants in different regions/provinces in Vietnam. The biomass supply chain in case studies is based on multi fuels. After this task, one of the case studies will be demonstrated. d) the case study and demonstration will be analyzed and reported. e) one seminar will be organized in Vietnam and another in Lao PDR where the results will be presented in order to promote the use of biomass in partnership countries.

Relevance to Country's Energy and Environment Policies

The project is relevant to Vietnam's energy policies. In recent years, the government of Vietnam has recognized the important role of renewable energy (RE) in sustainable supply of energy in general and electricity in particular for rural off-grid areas. There are legal frameworks in Vietnam that support the use of biomass for energy production including the Electricity Law which requires support to be provided for electricity generation from renewable

Project Highlights

Project ID	: V-PPF-31120940
Country	: Vietnam
Lead Partner	: Institute of Energy (IE)
Partners	: Technical Research Centre of Finland (VTT)
Total Project Cost	: € 225,000
EEP Financing	: € 175,000 (77.78%)
Technical Focus	: Biomass
Activity	: Study/Capacity Building
Duration	: 24 months



Kick-off Meeting

energies. In addition, the project could assist the government to achieve its target of 5% and 11% share of renewable energy in total energy generation by 2020 and 2050 respectively. On climate change mitigation, the project is in line with the Energy Law introduced in 2005 which aims to improve energy efficiency and promote renewable sources of energy.

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Innovation and Knowledge Transfer

The project is innovative as it provides solutions to the problem in obtaining a reliable biomass supply for combined heat and power (CHP) generation. The main impacts of the project are: the improvement of biomass profitability use for energy, the increase of biomass use in CHP plants, the reduction of environment impacts of biomass (at the moment biomass is burnt in open field or raw biomass is dumped in the rivers), the reduction of import and use of coal for energy production and the reduction of poverty by providing new jobs for local people in terms of biomass production and supply systems. Knowledge transfer is achieved through the following project activities: a) reporting the results of demonstration of a development case study, and b) conducting two seminars, one in Vietnam and another in Lao PDR during the ASEAN Energy meeting where representatives of the 10 member countries will be participating.



Rice Husk Processing Plant
Photo courtesy: Arvo Leivonen, VTT

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