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Challenges for Agricultural Research”

Development of Pico-hydropower Plant for Farming Village in Upstream Watershed, Thailand

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Abstract

Research on the development of Pico-hydropower plant for a farming village in Thailand was carried out. It is one aspect given by the national plan for the renewable technology development with wisely energy utilization from natural resources included wind, water, solar energies, bio-gas, and farm waste according to the Ministry of National Energy reported, respectively. Since, some upstream watersheds in Thailand are potential for the development of the large scale hydropower plants by mean of the dam constructions. However, most of proposed dam sites in the upstream watershed are located within the restricted area as for the forestry and environmental conservation zone according to the national environmental law of conservation. Pico-hydropower plant is more suitable to develop for the economic and farming zones of such watershed. A waterfall site in Ban-Yaeng Village, Nakornthai District in Phitsanulok Province which locates at the upstream of Wangthong Watershed (Sub-basin of Nan River) was selected as the pilot project for the construction of the hydropower plant. The appropriated technology using the centrifugal pumping machine as for the water-turbine connected to a 3-phase motor producing electricity of 380 volts at revolution of 1500 rpm was applied. The system was based on low cost of construction, local materials, and easy construction and maintenance systems. Its performance of the overall systems by mean of the efficiency was found to 52% resulted by the effective head of 8.4 meters, flow rate of 15 liters per second, and electrical power production of 644 watts which can be used for the light, some house-ware appliances, and some farming equipments. It can be applied to other small farming villages in any upstream watershed with enough head and flow rate in the stream over the year round in order to save investment cost for farming systems with the clean technology. However, it can be transferred to larger farming villages if higher head and larger flow rate in the natural stream or river were found which depended on the country and topography.

Background and Aim of the Study

Phitsanulok Province locates in the lower-northern region of Thailand with 365 km north of Bangkok. According to the report by Chuenchooklin (2005), the average annual electric consuming in Phitsanulok is 500 million kilowatt-hours (kWH). Most of energy sources are come from outside the province such as fuel. These fuels can be produced

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ICASI 2019 Rahmat Hidayat, Mesran, Tengku Mohd Diansyah, Supriyanto, Dodi Siregar, 2019-11-26 As an annual event THE 2ND INTERNATIONAL CONFERENCE ON ADVANCE SCIENTIFIC INNOVATION 2019 continued the agenda to bring together researcher academics experts and professionals in examining about Scientific Innovation in technology education management accounting and many aspect area In 2019 this event held in 18 July 2019 at Politeknik Kutaraja Banda Aceh Indonesia This ICASI Proceeding 2019 are published along with article from ICASI 2018 and each contributed paper was refereed before being accepted for publication The double blind peer reviewed was used in the paper selection

Microelectronics, Electromagnetics and Telecommunications Ganapati Panda, Suresh Chandra Satapathy, Birendra Biswal, Ramesh Bansal, 2018-11-02 The book discusses the latest developments and outlines future trends in the fields of microelectronics electromagnetics and telecommunication It contains original research works presented at the International Conference on Microelectronics Electromagnetics and Telecommunication ICMEET 2018 organised by GVP College of Engineering A Andhra Pradesh India The respective papers were written by scientists research scholars and practitioners from leading universities engineering colleges and R D institutes from all over the world and share the latest breakthroughs in and promising solutions to the most important issues facing today s society Micro Perspectives for Decentralized Energy Supply Martina Schäfer, 2011 **Engineering for Sustainable Development and Living** Jacqueline A.

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Takeuchi,Hideaki Shiroyama,Osamu Saito,Masahiro Matsuura,2018-07-13 This open access book presents a comprehensive analysis of biofuel use strategies from an interdisciplinary perspective using sustainability science This interdisciplinary perspective social science natural science means that the strategies and policy options proposed will have significant impacts on the economy and society alike Biofuels are expected to contribute to reducing greenhouse gas emissions revitalizing economies in agricultural communities and alleviating poverty However despite these anticipated benefits international organizations such as the FAO OECD and UN have published reports expressing concerns that biofuel promotion may lead to deforestation water pollution and water shortages The impacts of biofuel use are extensive cross sectoral and complex and as such comprehensive analyses are required in order to assess the extent to which biofuels can contribute to sustainable societies Applying interdisciplinary sustainability science concepts and methodologies the book helps to enhance the establishment of a sustainable society as well as the development of appropriate responses to a global need for urgent action on current issues related to biofuels *Developments* ,2006 The International Journal on Hydropower & Dams ,2007

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Mini Hydropower for Rural Development Thomas Meier,2001 Rural electrification enjoys high priority on Indonesia s development agenda In remote villages located beyond the reach of national electricity grids mini hydropower offers an environmentally friendly alternative to decentralized electricity generation Technical assistance programs have successfully introduced mini hydro technology in developing countries but have often failed to attain sustainable plant operation This book provides insight into the multifaceted conditions under which village communities are struggling to keep systems running A new approach linking productive electricity use and mini hydro operation is developed which incorporates experiences of market oriented approaches in small enterprise development Village communities are no longer left alone after the commissioning of the plants but are continuously provided need oriented services The study is exceptional in that the approach is experimentally applied in an actual project involving a village owned coffee roastery It is shown that the new approach not only contributes to a sustainable electricity supply but also to village development

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