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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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The Engineering Institution of Zambia 2007 Symposium Proceedings Engineering Institution of Zambia. Symposium,2007 **Carbon Dioxide Utilization to Sustainable Energy and Fuels** Inamuddin,Rajender Boddula,Mohd Imran Ahamed,Anish Khan,2021-11-30 This edited book provides an in depth overview of carbon dioxide CO₂ transformations to sustainable power technologies It also discusses the wide scope of issues in engineering avenues key designs device fabrication characterizations various types of conversions and related topics It includes studies focusing on the applications in catalysis energy conversion and conversion technologies etc This is a unique reference guide and one of the detailed works is on this technology The book is the result of commitments by leading researchers from various backgrounds and expertise The book is well structured and is an essential resource for scientists undergraduate postgraduate students faculty R D professionals energy chemists and industrial experts *International Journal on Hydropower & Dams* ,2008 Renewables 2005 Global Status Report Eric Martinot,2010 This report provides an overview of the status of renewable energy worldwide in 2005 It covers markets investments industries policies and rural off grid renewable energy in developing countries By design the report does not provide analysis recommendations or conclusions Contents 1 Global Market Overview 2 Investment Flows 3 Industry Trends 4 Policy Landscape 5 Rural Off grid Renewable Energy and Glossary Charts and tables *Science in Society* 60 Dr. Eva Sirinathsinghji,Prof. Roger Leakey,Dr. Emilio Del Giudice,Dr. Margherita Tosi,2013-11-18 In this issue From the Editors Scientific American Disinformation on GMOs New Paradigm Food Agriculture Paradigm Shift Urgently Needed In Agriculture UN Agencies Call for an End to Industrial Agriculture Food System Plants Warn One Another of Pest Attack through Mycorrhizal Fungal Network Post 2015 Development Africans Show the Way Nitrogen fixing for All Crops Not the Answer Physics of Organisms Galaxy Making Stars at the Edge of the Universe Other Surprises Continuous Creation from Electric Plasma versus Big Bang Universe Biology of

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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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