

## MINI-GRID WEBINAR SERIES 2019

**WEBINAR 1** 

MINI-GRID RELIABILITY: THE ROLE OF TRAINING CENTERS FOR MICRO/MINI HYDROPOWER

MARCH 2019

WEBINAR 2

MINI-GRID SUSTAINABILITY: TRANSITIONING TO ENTERPRISE-BASED MICRO-HYDROPOWER

JUNE 2019

WEBINAR 3

MINI-GRID FINANCING: ENABLING THE ROLE OF LOCAL BANKS
SEPTEMBER 2019

WEBINAR 4

MINI-GRID PLANNING: DATA MAPPING TOOLS FOR MULTI-ACTORS

DECEMBER 2019

## **PARTNERS**





Knowledge exchange and advocacy platform to advance small-scale hydropower across 10+ countries of S/SE Asia with global membership



www.wisions.net

### **WISIONS OF SUSTAINABILITY**

Wisions promote the transition to sustainable energy systems in the global South.



## **ENERGYPEDIA**

Wiki platform for collaborative knowledge exchange on renewable energy, energy access, and energy efficiency topics in developing countries

## **PARTNERS**



www.wisions.net

WISIONS promotes the transition to sustainable energy systems in the global South. Its mission is to empower individuals and communities to transform the production and use of energy so that it effectively enables sustainable development.

The initiative is run by the Wuppertal Institute, a German think tank, and has been supported by the Swiss-based foundation ProEvolution since its inception in 2004.

In addition to supporting HPNET, WISIONS has supported a multitude of pico and micro hydro projects and knowledge exchanges.

More info here: http://wisions.net/pages/seps-energy-projects

## **PARTNERS**



www.energypedia.info

Energypedia UG is a non-profit organization that runs and maintains the wiki-based platform, **ww.energypedia.info.** 

It is an online platform for collaborative knowledge exchange on renewable energy, energy efficiency and energy access in the context of development cooperation.

You can access the following resources, developed in collaboration with HPNET, pertaining to small-scale hydropower:

<u>Micro/Mini Hydropower Library (MHL)</u> – A collaborative, searchable repository of publications and multimedia on micro/mini hydropower for energy access around the globe.

<u>Mini-grid Webinar Series 2017</u> – Prequel to this webinar series, the 2017 series featured mini-grid technology differentiation, grid-interconnection, and productive end use.

<u>Hydro Portal on energypedia</u> – A gateway to all hydropower information on energypedia.



## **ROLES OF HPNET**



#### **KNOWLEDGE EXCHANGE**

Capacity building events (online and in-person)
Knowledge exchange tools for multi-actors
South-South and peer-to-peer exchange



### STRATEGY ADVOCACY

Platform for local practitioner voices Multi-stakeholder facilitation Data and mapping to quantify impact



### **THEMATIC FOCUS AREAS**

Technology and skills advancement Socio-environmental sustainability Enabling financing and policy for scalability















# SPEAKER 1 HON, ADRIAN BANIE LASIMBANG

In 2018, Hon. Adrian Banie Lasimbang became a senator for the national government of Malaysia, representing the state of Sabah. With extensive experience in participatory mapping, conducting community awareness workshops, enrichment planting, gravity water supply systems, and designing community-based micro-hydro systems, his work centers on improving the socioeconomic conditions of rural indigenous communities in Sabah and Sarawak. He has been the Executive Director of TONIBUNG, a local NGO promoting localized renewable energy solutions, including CREATE Borneo, a village-based workshop and training facility, educating the next generation of indigenous engineers in renewable energy technologies. In 2004, Senator Lasimbang was awarded the Seacology Prize for Indigenous Conservationist of the year for protecting watershed areas and improving livelihoods in rural indigenous communities in Borneo. In both 2007 and 2008 he received the Outstanding Young Person Sabah (TOYPS) award for his work integrating natural resource management and rural indigenous communities. He also runs Penampang Renewable Energy, a renewable energy consultancy company. He is a technical advisor for Indigenous Peoples Network of Malaysia (JOAS).



Tonibung Center for Renewable Energy and Appropriate Technology (CREATE), Malaysia



# SPEAKER 2 JADE ANGNGALAO

Jade Angangalao is the coordinator of SIBAT's renewable energy program, and the supervisor of SIBAT's Center for Renewable Energy and Appropriate Technology (CREATech). She oversees the administrative needs of the center's operations, including electro mechanical equipment fabrication and research on electronic load controllers. Her supervisory role also extends to the implementation of actual micro hydropower and solar projects; wherein she is very involved in field work, particularly in community organizing and conducting feasibility studies. Other areas of work she is involved with include liaising with technical foreign partners and academe. Jade is an Agricultural Engineer by profession.



SIBAT Center for RE and Appropriate Technology (CREATech), Philippines





# SPEAKER 3 GERHARD FISCHER

Gerhard Fischer has over 35 years of professional experience in the development of hydropower. He is specialized in technology transfer, concentrating on turbine design and manufacturing and has working experience in 27 countries. He worked 6 years as a researcher on the University Stuttgart in the hydraulic laboratory of the Institute for Hydraulic Machines and Fluid Dynamics. During this time he was in charge of construction and installing the hydraulic laboratory and research on simple turbine designs. Then he worked 5 years in Switzerland as project engineer for hydropower projects and trainings in a small engineering company (Chapallaz Engineering). From 1995 - 1997, he was an engineer with SKAT (Swiss Centre for Development Cooperation in Technology and Management), St.Gallen, Switzerland. From 1997-2013, he worked for entec AG Switzerland on several assignments covering all aspects of hydro power development in Switzerland, South America, Africa and Asia. From 2005-2013 until March 2013 he was director of PT entec Indonesia, a consulting and engineering company active in the hydro power sector in Bandung, Indonesia. In 2011 he helped to establish the ASEAN Hydropower Competence Centre (HYCOM), a hands-on training center for small-scale hydropower, located in Bandung, Indonesia. He has a diploma in mechanical engineering from the University Stuttgart and post graduate study in energy management in developing countries (TU Berlin). Gerhard lives in Bandung, Indonesia, tending his backyard biodiversity forest.



ASEAN Hydropower Competence Centre (HYCOM), Indonesia

# HIGHLIGHTS OF 3 PRESENTATIONS



#### MALAYSIA: HON. ADRIAN BANIE LASIMBANG

- Established by an indigenous movement for all RE
- Transition from imported to indigenous technology
- Longer-lived projects and repair of defunct projects



### PHILIPPINES: JADE ANGANGALAO

- Transition from **imported to locally manufactured** technology
- Training for multi-actors
- Design & fabrication of productive end use machines



### INDONESIA: GERHARD FISCHER

- Demo micro hydro and grid interconnection units at HYCOM
- Access to **local professional micro hydro sector** -- a result of local capacity building

## **CLOSING POINTS**

### MICRO HYDRO CAPACITY BUILDING

- Local ability critical to the reliability and replication of hydro mini-grids
- Matured local expertise in S/SE Asia harnessed at local training centers How to best utilize local knowledge centers for 2030 SDG 7 targets?

### **ENGAGE WITH HPNET**

Sign up for our quarterly newsletter, the *HPNET Flow,* at <u>www.hpnet.org</u> Next newsletter: video tours of training centers

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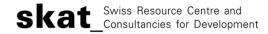
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