



Sustainable Framework for Hydropower Development in Myanmar

Update on the TA Program MOEE-NVE

9th EPSWG Meeting, MOEE, Nay Pyi Taw, 25th August 2016

*The Norwegian Water Resources and Energy Directorate (NVE)
Supported by the Royal Norwegian Embassy in Yangon*

Sustainable Framework for Hydropower Development

Regulatory Framework

Technical Capacity in MOEP

Design Basis

Hydropower Resources of Myanmar



Implementing the Framework:

- Continuous presence within MOEE
 - Resident Energy Advisor
 - Resident Environmental Adviser
- Shorter term staff within MOEE
 - NVE experts in all relevant fields
 - In-house consultants

NVE-MOEE Technical Cooperation

Cooperation areas:

CA 1: Hydropower Development

- *New Environmental Work – ESMWG established in MOEE working with improvements in handling E / S issues with Tha Thay as a Pilot Project.*
- *Continuous extensive In-House advisory services to DHPI for design and construction management of Tha Thay and Upper Keng Tawng Hydropower Projects*

CA 2: Technical Transfer

- *2nd year of English language proficiency training starting September 2016 with 45 students at 3 different levels in the Ministries*
- *Masters student in 2nd year of studies at NTNU University in Norway*
- *Extensive on-the-job training in the Ministry*
- *Numerous short-term training initiatives in technical & environmental subjects including ICH workshops & seminars in Hydropower & Environment (Environmental Flows); Operation & Maintenance (Water Management) and Hydropower Management (International regulations)*

NVE-MOEE Technical Cooperation

Cooperation areas:

CA 3: Implementation Support - Electricity Law and Regulations

Grid Code & Distribution Code technical working Group (MOEE-NVE & consultants)

CA 4: Hydropower Standards in MOEE

Final Draft Documents delivered-awaiting comments from the Ministry

CA 5: Strengthening of Hydrological Network and Database for Hydropower Development

Pilot stations with real-time satellite data transfer from river measurement stations to the cloud-based Hydrological Data Management System

Database forum established with participation from 3 Ministries

Most important lessons:

- Securing a sound knowledge-base before advancing on any topic
- Careful & Detailed planning in close cooperation with MOEE
- Presence in MOEE makes a difference:
 - Available for discussions
 - Maximised on-the-job training

The Republic of the Union of Myanmar

Ministry of Electric Power (MOEP)

Minister Office

Office Order No.(048/2016)

On the 3rd Waxing Day of Tapotwe, M.E. 1377, Nay Pyi Taw

(11 February 2016)

Establishing Environmental and Social Management Working Group of MOEP

In order to support and provide capacity enhancement in environmental and social management works of electric power projects, jointly cooperated by MOEP and Norwegian Water Resources and Energy Directorate (NVE) in Norway, **“Environmental and Social Management Working Group of MOEP”** is organized.....



Environmental & Social Management Working Group (ESMWG)Tasks:

- Health, Safety and Environment management system developed and introduced
- Public Involvement Framework developed and introduced
- Environmental and Social Management Planning with guidelines developed and introduced
- EIA guidelines for reviewing external projects
- Permanent Environmental Unit in MOEE with ESMWG established as a permanent unit with well qualified staff

Goals and Visions:

- Enhanced environmental and social management of the projects developed by MOEE
- Actual changes on the ground through training and framework development.
- A permanent ESM Department recognized as a regional centre of excellence.



THANK YOU!

Kyeizu tin ba de!



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