

**WORLD WATER DAY 2017
STRATEGIC ENVIRONMENTAL MANAGEMENT**

**Improvement of Environmental
and Social Management of
hydropower projects in Myanmar**

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Environmental & Social Management is legal requirement?

➤ 2008 State Constitution

✓ Article 45

The Union shall protect and conserve natural environment

✓ Article 390

Every citizen has the duty to assist the Union in carrying out the following matters:

- (a) preservation and safeguarding of cultural heritage
- (b) environmental conservation
- (c) striving for development of human resources
- (d) protection and preservation of public property

Policy and Legal Instruments

- Environmental Conservation Law, 2012
- Environmental Conservation Rules, 2014
- EIA Procedures, 2015
- MIC Guidelines
- FDI Law/Rules/Notification
- National Comprehensive Development Planning, NCDP
- Sustainable Development Goals, SDGs
- National Climate Change Policy and Strategy
- National Green Economy Policy and Strategic Framework

Power Sector Policies

1. To employ the available energy resources in power generation for the sufficient supply of electricity.
2. To promote the effective and efficient use of electricity for future energy sufficiency, reserves and sustainability in our nation.
3. To conduct the reliable power quality to be supplied safely.
4. To enhance the electricity distribution system to be developed in accordance with the advance technologies.
5. To adopt the environment-friendly ways in electricity generation, transmission and distribution.
6. To encourage the expansion of power transmission and distribution throughout the country and the Public-Private-Participation in each sector.
7. To get millennium achievements, besides of constructing of thermal power plants, have to construct more hydro power plants yearly by the least of EIA and SIA, whereas hydro power is the clean and renewable energy.

Environmental & Social Management is legal requirement?

- All medium and Large scale Hydropower Projects need to conduct ESIA process and implement Environmental and Social Management Plan.
- Hydropower projects under construction stage need to implement Environmental and Social Management Plan and have to submit monitoring report to Environmental Conservation Department.

Environmental & Social Management is crucial

- Myanmar has great Hydropower Potential
- We have to implement many Hydropower Projects to fulfill electricity demand
- To mitigate impacts and to improve livelihood of affected community
- To improve public involvement
- To get community support and to reduce potential conflict
- To get social license
- To remove negative legacy attached to Hydropower

ESIA and ESMP

- ESIA is conducted by third party
- Review Team evaluate ESIA report
- Initiate ESMP for some hydropower projects

Improving Environmental and Social Management

- MOEE established Environmental and Social Management Working Group in Feb. 2016
- Mandate of ESMWG is to handle Environmental and Social aspects of Hydropower projects
- Technical assistant of Norwegian Water Resources and Energy Directorate (NVE)

Mandate for ESMWG

- Overview of the relevant legal framework and responsibilities of other line ministries
- Coordinate relevant environmental issues towards other line ministries
- Draft standardized entitlements and processes for project affected stakeholders
- Guide implementation of environmental and social activities in hydropower projects through definition of guidelines, planning tools, standards and monitoring framework.
- Elaborate a framework for Health, Safety and Environment (HSE) to guide MOEP projects.
- Review of hydropower ESIA prepared by external developers.
- Contribute to definition of sector specific ESIA guidelines for hydropower in cooperation with MOECAAF (ref. IFC assistance and CA4 Myanmar Hydropower Standards(MHS))
- Regular reporting of ESM issues to MOEP management
- Outreach and Public information about ESMWG activities, internally in MOEP and externally.
- Provide training and guidance of MOEP personnel
- Donor coordination of ESM activities

Development of the Environmental Component

- September 2016: NVE and ESMWG finalized Draft Program Document for Environmental Component
- DHPI approved Program Document for Environmental Component on 8th Sep. 2016
- Goal: The DHPI projects will improve their environmental and social performance and safeguard that affected villagers experience enhanced support and involvement.

Environmental sub-components

- Sub-Component 2-1: Health, Safety and Environment (HSE)
 - “HSE management system developed and introduced for DHPI projects”.
- Sub-Component 2-2: Public Involvement (PI)
 - “Public Involvement (PI) Framework developed and introduced for DHPI projects”
- Sub-Component 2-3: Environmental and Social Management Planning (ESMP)
 - “ESMP guidelines developed and introduced for DHPI projects”
- Sub-Component 2-4: EIA review
 - “EIA review guidelines for DHPI used for reviewing external projects”
- Sub-Component 2-5: Permanent Environmental Unit in MOEE
 - “ESMWG established as a permanent unit within MOEE with well qualified staff.”

Technical Assistant of NVE

- To develop Environmental and Social Policies and Framework
- To prepare and support implementation of Environmental and Social Management Plans
- To prepare and support implementation of Environmental, Health and Safety Plans
- To prepare guideline and support to DHPI personnel and other relevant government institutions involved in EIA review for external hydropower projects
- We need technical assistant of NVE for Improvement of Environmental and Social Management of hydropower projects in Myanmar

Hydropower Sustainability Assessment Protocol

- Norad – IHA Sustainable Hydropower Initiative in Myanmar
- Part of a global Norad – IHA agreement to implement the Hydropower Sustainability Assessment Protocol in developing economies
- Contributes to NVE's goal of assisting the Ministry of Electricity and Energy to develop hydropower projects to international environmental and social standards
- The programme includes:
 - HSAP training
 - Guided self-assessment, including three further capacity-building visits
 - High-level stakeholder workshop
 - Final workshop to share experience

Collaboration with IFC

- In September 2015, IFC signed an advisory agreement with the MOEE and MoNREC
- Training in downstream flows management, benefit-sharing arrangements, addressing cumulative impacts from cascades of dams, and **stakeholder engagement**.
- Hydropower Developers' Working Group
- Strategic Environmental Assessment, SEA for Hydropower
- Sectoral EIA guidelines for Hydropower

Collaboration with ECD (1/2)

- Working Committee for Conservation of Natural Resources, Biodiversity and Cultural Heritage
- ESIA Review Team (Reviewing ESIA report of all projects in Myanmar)
- Formulation of Myanmar Climate Change Policy
- Formulation of Myanmar Climate Change Strategy and Action Plan (MCCSAP)
- Formulation of Myanmar's Intended Nationally Determined Contributions (INDCs)
- Formulation of National Environmental Policy of Myanmar

Collaboration with ECD (2/2)

- Formulation of Green Economy Policy and Strategic Framework in Myanmar
- Implementation of National Environmental and Health Action Plan, NEHAP-Myanmar
- Formulation of Regional Guidelines for Public Participation in Environmental Impact Assessment
- To reduce using ozone depletion substances, ODS (Ozone Unit)
- Joint Committee of the Joint Crediting Mechanism (JCM) between Myanmar and Japan

Thank you for your kind attention.