



Norwegian Water Resources and Energy Directorate

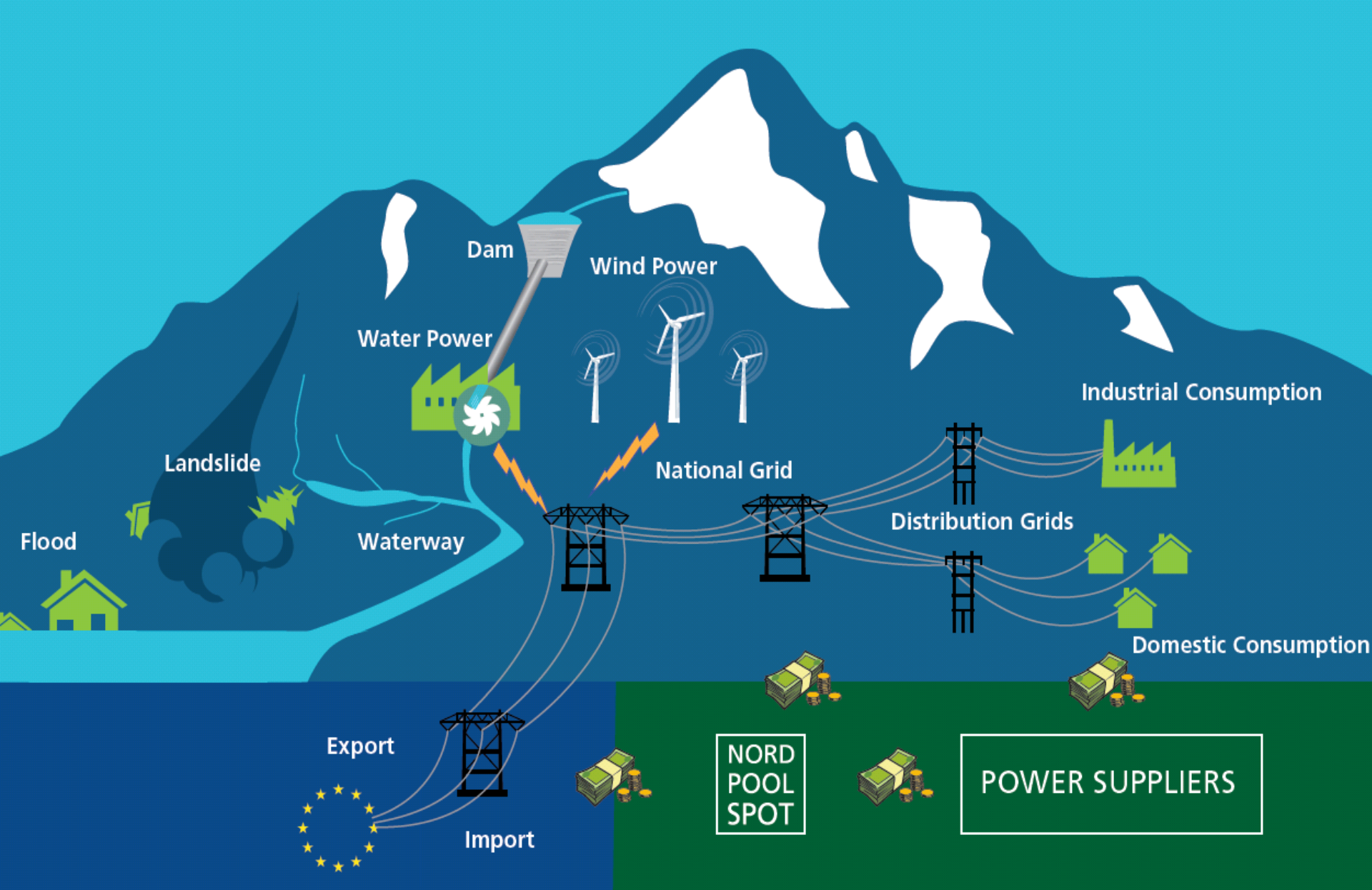
“Developing Policies, Guidelines and Sustainable Planning Principles for the Myanmar and Bhutan Hydropower and Water Resources Sectors “

4th September 2017

Morten Johnsen
Head of International Department

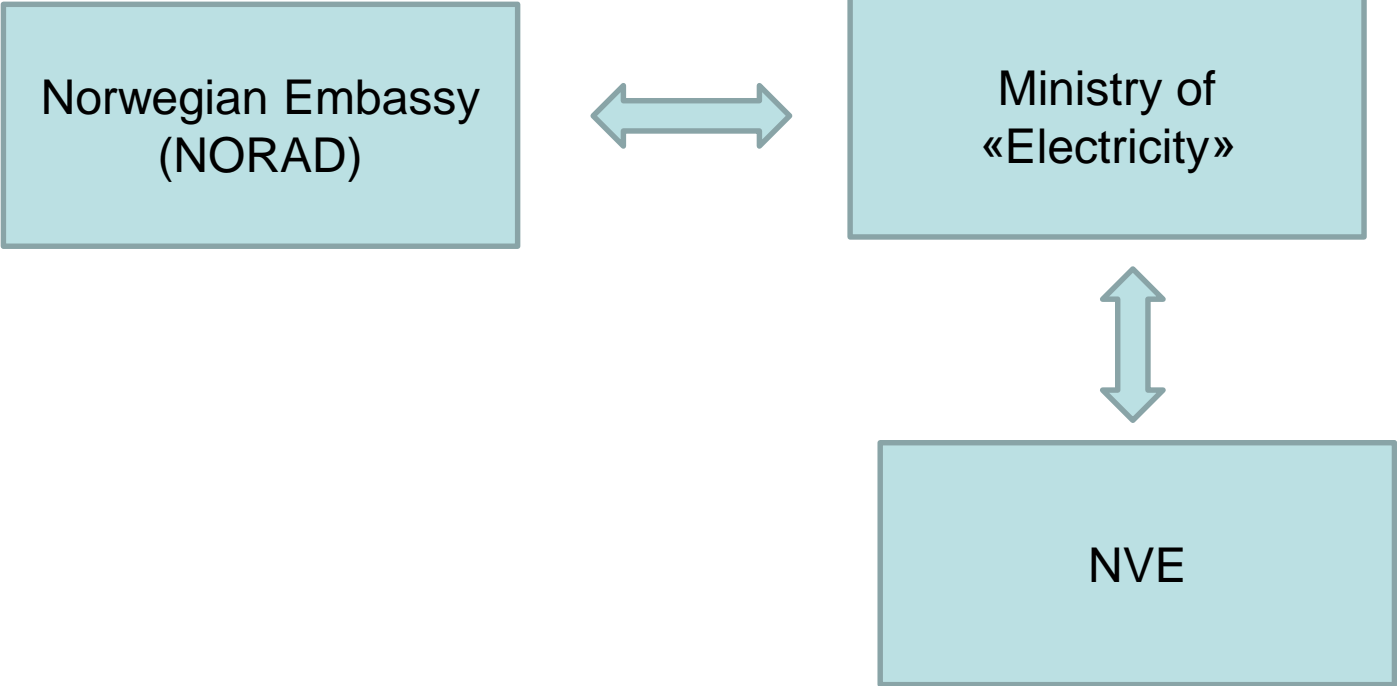
Content

- Short Intro to NVE mandate and role
- Key challenges in NVE partner countries
- Experiences from Bhutan
- Current progress in Myanmar





Institutional Cooperation



Key Sector Challenges in NVE partner countries – Bhutan and Myanmar

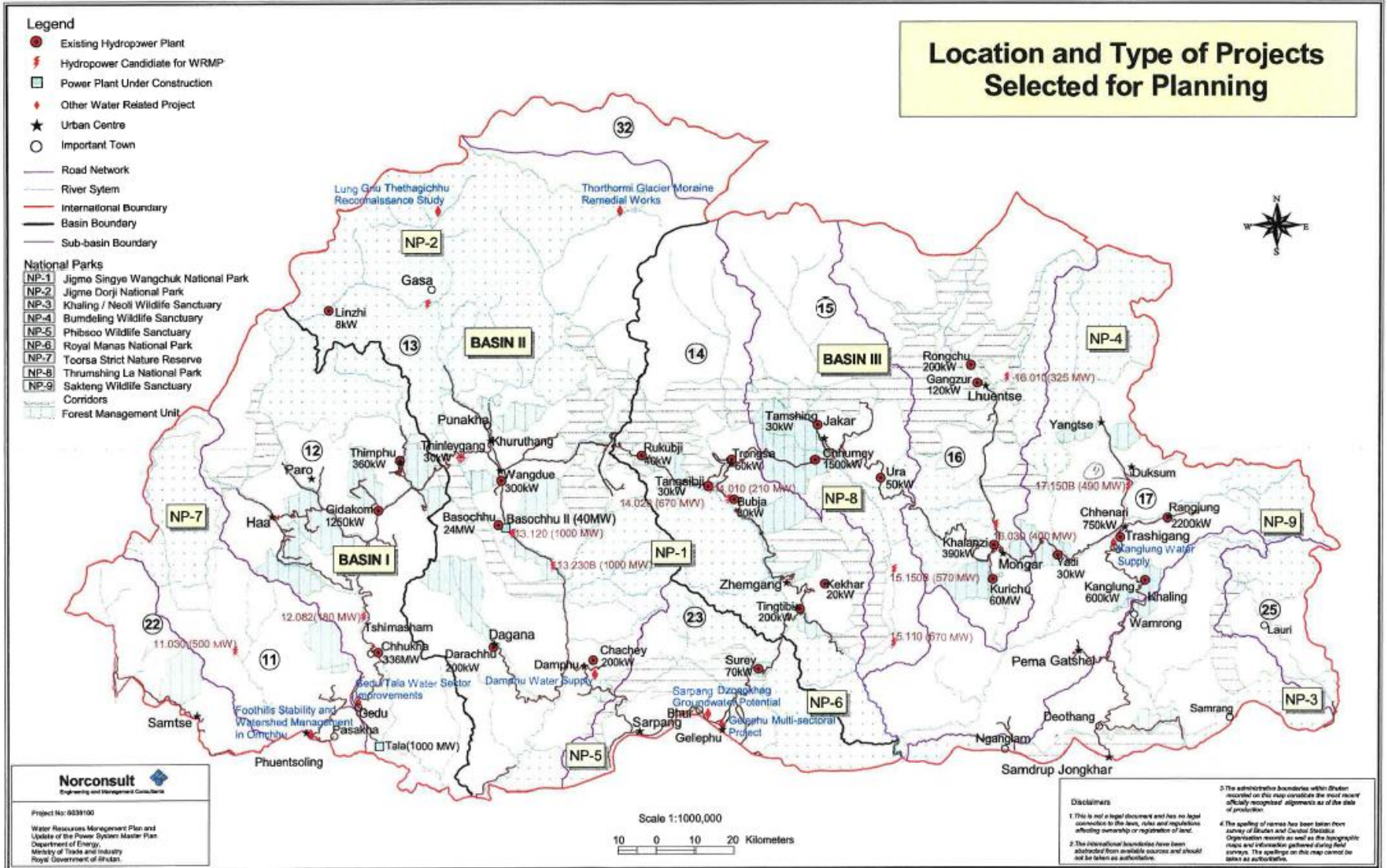
- Key sector challenges identified during programme planning
 - Most sector responsibilities gathered in one institution
 - Low electrification
 - Steep national power demand
 - Lack of national funding
 - Growing interest from international investors
 - Many engineers, few other disciplines
 - Low implementation capacity of legal framework
 - Incomplete hydrological data and storage
 - Growing public interest (Myanmar)



Partner Institution
Department of Hydropower & Power Systems
Ministry of Economic Affairs
Royal Government of Bhutan

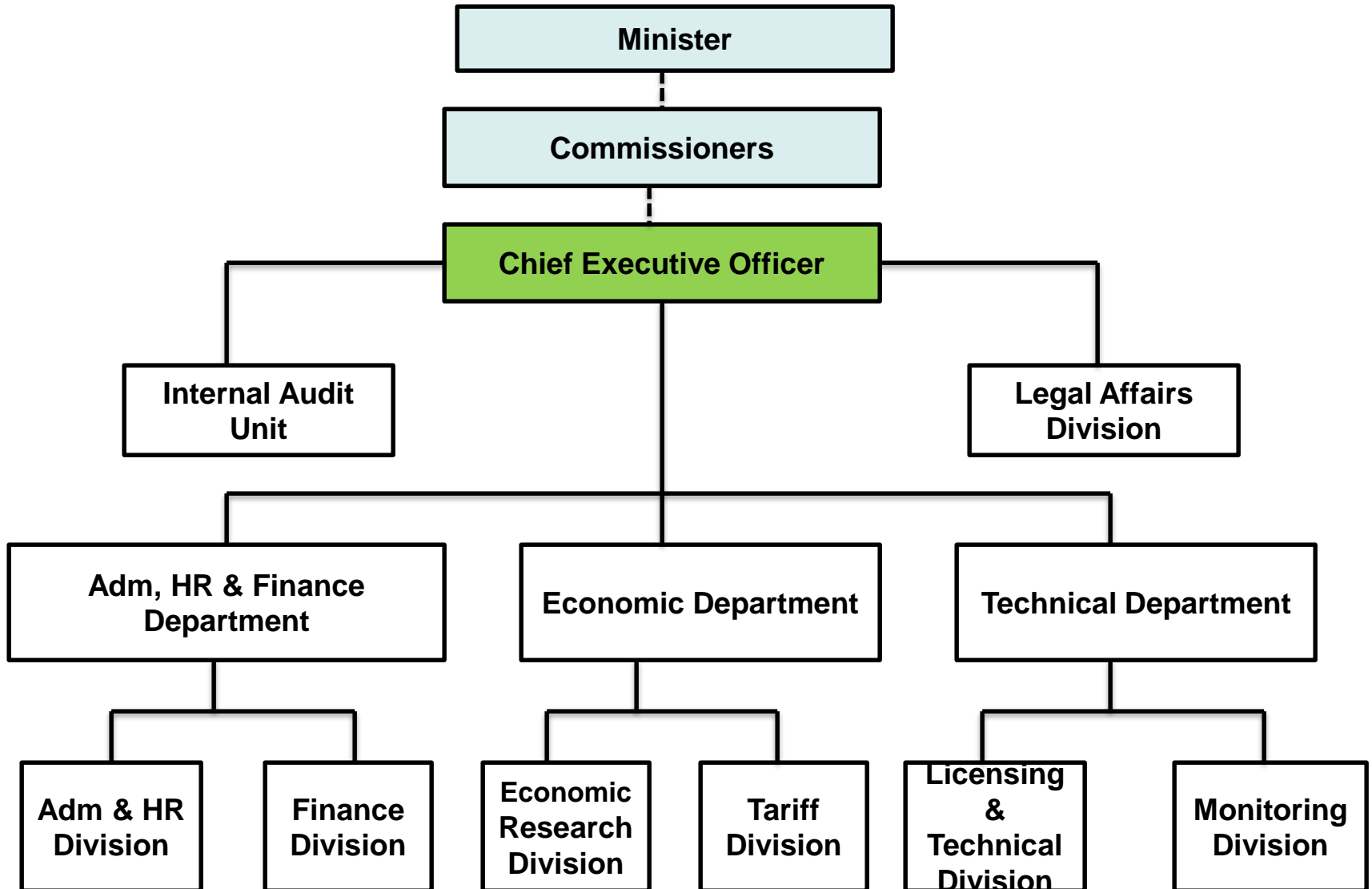
Update of the Power System Master Plan 2003

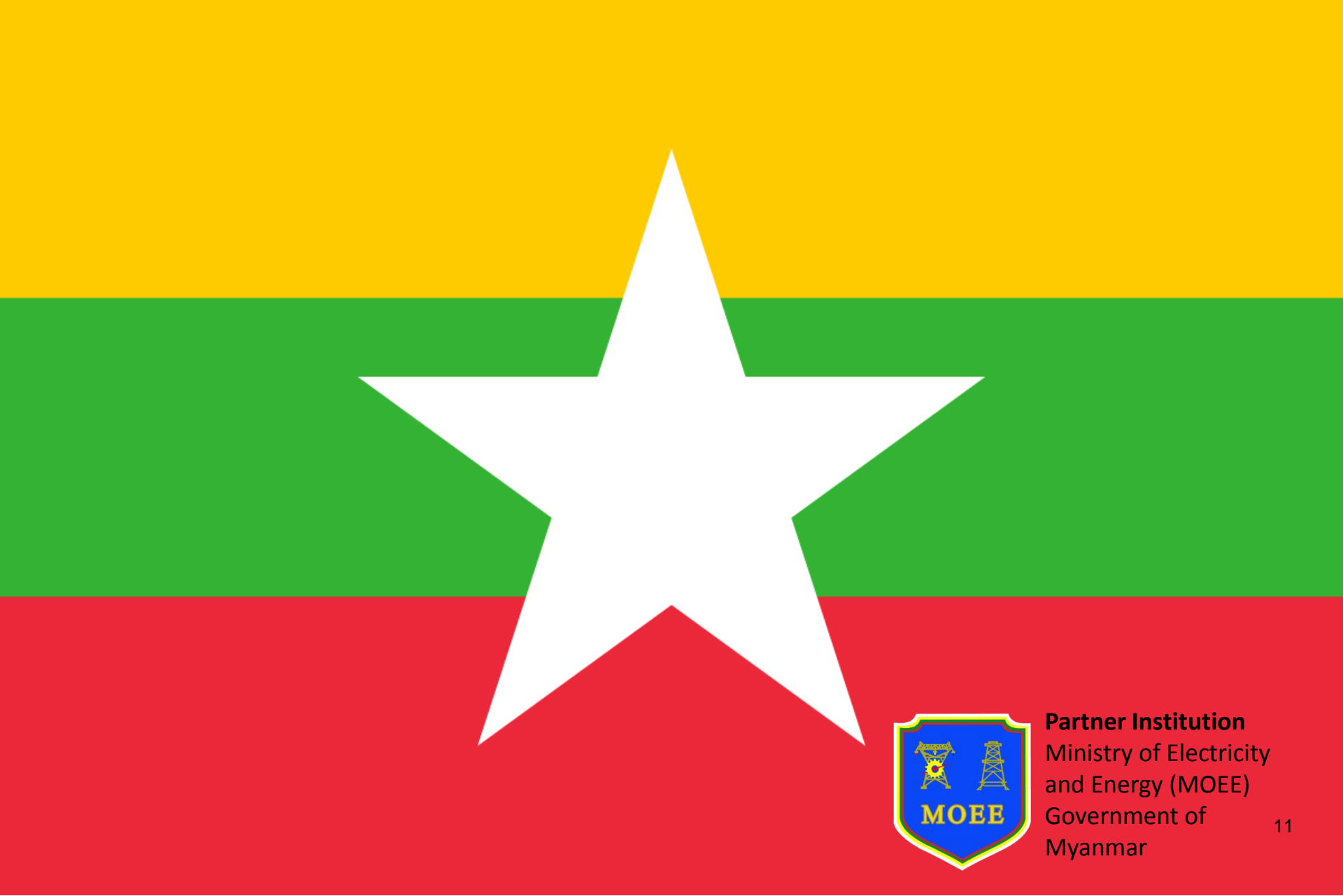
map NO. 10





BEA ORGANOGRAM





Partner Institution
Ministry of Electricity
and Energy (MOEE)
Government of
Myanmar

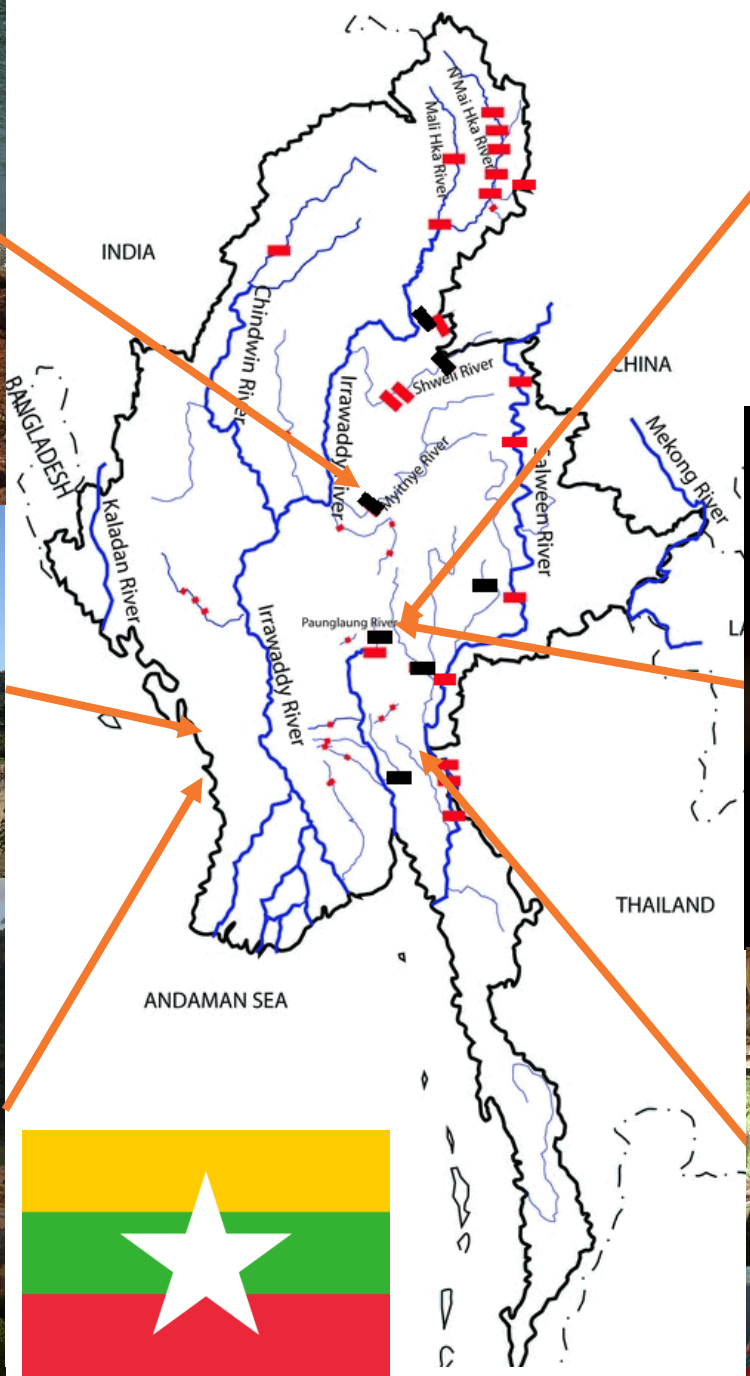
Sustainable Framework for Hydropower Development

Regulatory Framework

Technical Capacity in MOEE

Design Basis

Hydropower Resources of Myanmar



Summing up

- Long term commitment and results
- Gradual development of institutional and individual capacity leading to organizational change and practice
- Institutional cooperation is flexible and can easily adapt to new priorities
- Important with donor coordination
- Challenging with changing political priorities and national funding

Short movie

- Bhutan Electricity Authority (BEA) reflections