

OVERVIEW OF SCOPING AND BASELINE ASSESSMENT PHASE

MRC SEA of hydropower on the mainstream Mekong

Scoping process



Key strategic themes for development of the mainstream Mekong River defined by government experts

- A. Fisheries**
- B. Agriculture**
- C. Wetlands & biodiversity conservation**
- D. Navigation**
- E. Health**
- F. Local Livelihoods & Poverty reduction**
- G. Migration**
- H. Irrigation**
- I. Energy Security/ energy poverty**

- A. Fisheries (1)**
- B. Power generation (2)**
- C. Navigation (2)**
- D. Tourism (3)**
- E. Manufacturing/processing Industry (4)**
- F. Water Quality, sedimentation & erosion (5)**
- G. Resettlement & cultural heritage (6)**

THAILAND
CAMBODIA

LAO PDR
VIET NAM

- A. Fishery (1)**
- B. Power & Energy (1)**
- C. Poverty and livelihood (2)**
- D. Hydrology and water quality (2)**
- E. Agriculture and water supply (3)**
- F. Terrestrial ecology and land use (3)**
- G. Aquatic diversity and ecosystems and fisheries (3)**
- H. Navigation (8)**

- A. Agriculture (1)**
- B. Fisheries (2)**
- C. Transport & inland waterways (3)**
- D. Ecosystem integrity and environment (3)**
- E. Hydrology and climate change (4)**
- F. Power generation (unranked)**

Identification of key issues by theme

4

GOVERNMENT TARGET

1. maintain total annual catch of 400,000tonnes/yr

GOVERNMENT POLICY

1. Strategic planning framework for fisheries 2009-2018
2. Fisheries annual priority action plan

KEY STRATEGIC ISSUES

1. Nutrition
2. rural economic growth
3. poverty alleviation
4. habitat destruction

DEVELOPMENT OBJECTIVES

1. Maintain productivity in capture fisheries
2. expand aquaculture production

SUSTAINABILITY PRINCIPLES

1. Habitat preservation (spawning grounds, deep pools, migration routes...)
2. Conservation of endangered species through controls on fishing technology and activities

Development
of Cambodian
Mekong
Fisheries

Identification of key issues by theme

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GOVERNMENT POLICY

1. Agriculture-water strategy
2. Rectangular strategy for strategic development Phase II
3. National Forest Program (under development)

KEY STRATEGIC ISSUES

1. sustainedwater supply
2. low productivity yield
3. poverty alleviation
4. Dependency on natural systems

DEVELOPMENT OBJECTIVES

1. Attracting investment in the Economic Land Concessions along in Kratie & Stung Treng provinces
2. Achieving food self-sufficiency through increased agricultural productivity & extension of irrigation

Development of Cambodian Agriculture in Mekong Provinces

SUSTAINABILITY PRINCIPLES

1. Soil conservation through maintaining vegetated zones between concession areas and rivers
2. Stability in crop productivity through maintaining diversity of crop species and minimizing chemical inputs

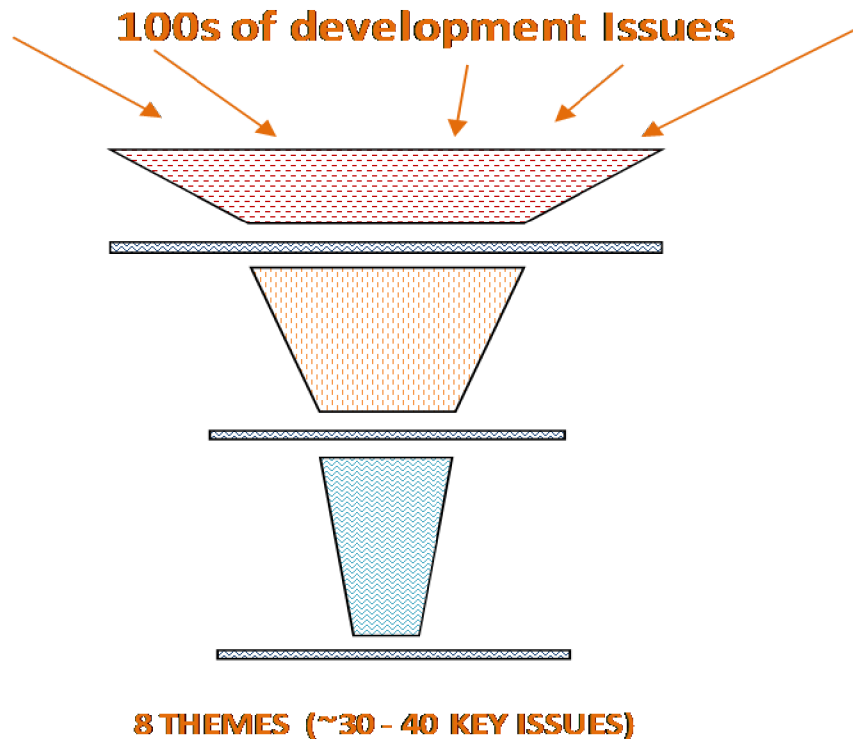
Working set of strategic themes

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1. energy and power
2. economics
3. social systems
4. hydrology & sediment
5. aquatic systems
6. fisheries
7. terrestrial systems (including agriculture)
8. climate change

Theme	Key strategic issue
<i>ENERGY</i>	<ol style="list-style-type: none"> 1. Importance of mainstream power generation for regional power demand and expansion generation needs 2. Feasibility of alternative energy sources for the region 3. Compatibility of mainstream hydropower and domestic electrification and energy poverty alleviation 4. The importance of foreign exchange earnings to national and local development 5. Contribution of mainstream dams and secondary stimuli to national and provincial development
<i>FISHERIES</i>	<ol style="list-style-type: none"> 1. Changes to the unique features of the Mekong River fisheries <ul style="list-style-type: none"> ▪ biodiversity, ▪ migration patterns, ▪ catching techniques 2. The importance of fisheries to local livelihoods and national/provincial economies
<i>HYDROLOGY & SEDIMENT</i>	<ol style="list-style-type: none"> 1. Changes to the hydrological processes of the Mekong River 2. Fate and transport of sediment through the Mekong River 3. Changes to water quality
<i>AQUATIC SYSTEMS</i>	<ol style="list-style-type: none"> 1. Productivity and biodiversity of aquatic habitats 2. The nature and importance of Mekong River ecosystems services

1. SCOPING



Government Line Agency Meetings

- meetings with 40 agencies in the LMB

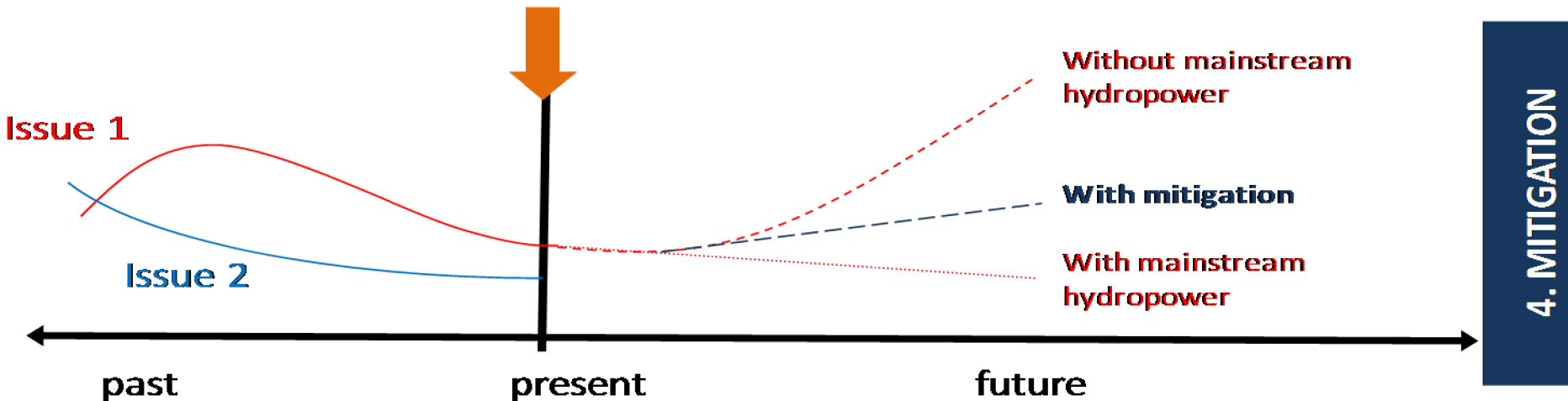
National Scoping & Capacity Building Workshop & Civil Society Meetings

- 4 National Scoping Workshops
- 3 Civil Society meeting
- Thai Civil Society meeting to follow in November

2 Field Missions & Opinion from 17 experts

- Luang Prabang, Xayabouly, Pak Lay, Sanakhan, Pak Chom

8 THEMES (~30 - 40 KEY ISSUES)



4. MITIGATION

2. BASELINE ASSESSMENT

3. OPPORTUNITIES & RISKS ASSESSMENT

Trend analysis and scenarios

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- Trend analysis for past, current and future (2025-2030)
- Indicators for assessing change in key issues – drew from BDP indicator framework
- SEA adopted two BDP scenarios:
 - ▣ LMB 20 year plan without mainstream hydropower dams
 - ▣ LMB 20 year plan with mainstream hydropower
- Both include existing and planned Yunnan and tributary dams