

## Environmental considerations

## Contents

- What are environments?
- Why environmental considerations?
- Where?
- Criteria for environmental considerations
- Need EIA?

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## What are environments? (1/1)

- Social environment
  - Ethnic minorities
  - Land utilization
  - Water utilization
- Natural environment
  - Ecosystem (protected areas)
  - Species

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## Why environmental considerations? (1/3)

- Development may cause significant negative impacts on social and natural environments.  
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- These impacts should be avoided and mitigated as much as possible.

## Why environmental considerations? (2/3)

- Through environmental considerations,

Valuable resources can be saved.

1. Human resources
2. Natural resources
3. Financial resources
4. Time

## Why environmental considerations? (3/3)

- Considerations on other alternatives

1. Other sources of power generation
2. Import of electricity from other countries
3. Best mix of power sources
4. Public awareness

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## Where? (1/4)

- Affected areas

1. Site
2. Upstream
3. Downstream

## Where? (2/4)



### Site

- Impairment of navigation
- Effects on scenic value
- Effects on migration of fish species

## Where? (3/4)



### Upstream

- Resettlement
- Effects on important ecosystems
- Effects on watershed

## Where? (4/4)



Downstream

- Land utilization and water utilization
- Effects on important ecosystems
- Effects on sedimentation balance

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## Criteria for environmental considerations (1/3)

- Guidelines

1. Japan International Cooperation Agency
2. Asian Development Bank
3. Japan Bank for International Cooperation
4. World Bank

## Criteria for environmental considerations (2/3)

- Social environment

1. Villages
2. Historical and cultural heritages

## Criteria for environmental considerations (3/3)

- Natural environment

1. Existing protected areas
2. Proposed protected areas
3. Important ecosystems such as wetlands
4. Critical habitats of endangered fauna and flora

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## Need EIA?

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- YES!

Based on the environmental considerations by this project, an EIA (Environmental Impact Assessment) at each site will be conducted.



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## Session V

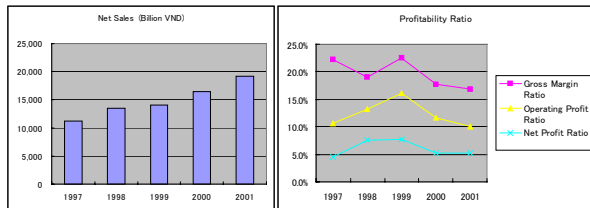
### Financial study

## Approach for financial study

- Major financial statistics of EVN
  - Profitability
  - Financial stability
  - Cash flow activities

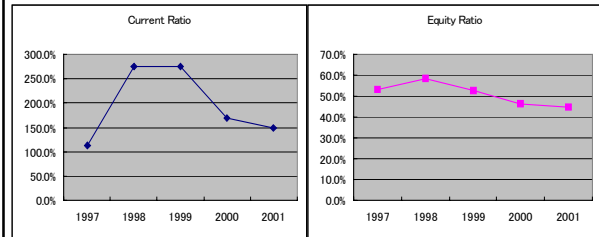
## Major financial statistics

- Past Profitability : Generally stable



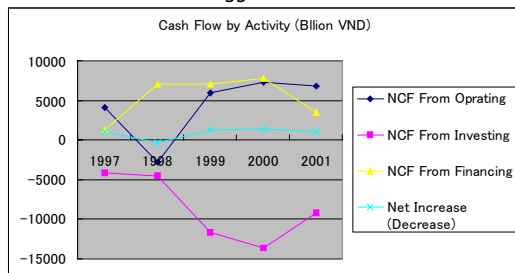
## Major financial statistics

- Past financial stability : Generally stable



## Major financial statistics

- Past cash flow : Aggressive investment



## Approach for financial study

- Major financial statistics of EVN
  - Profitability
  - Financial stability
  - Cash flow activities

## Approach for financial study

### ■ Needs of the financial Study

- Financial characteristics of EVN
- Financial feasibility
  - ✓ By Project
  - ✓ EVN as a whole

## Approach for financial study

### ■ Study items

- Financial situation of EVN
- Financial impact of the master plan
- Fund raising methods
- Financial analysis on the projects

## Study items No.1

### ■ Financial situation of EVN

- Past financial performance
- The financial prospects of EVN
  - ✓ Profitability,
  - ✓ Financial stability,
  - ✓ Cash flow

## Study items No.2

### ■ Financial impact of the master plan

- Financial simulation
- Comparison with EVN's financial plan

## Study items No.3

### ■ Fund raising methods

- EVN's self finance capability
- Discussion with financial institutions

## Study items No.4

### ■ Financial analysis of projects

- Financial evaluation of the project to be selected
- Preparing the suitable financing plan

## **APPENDIX 10-3-1**

### **Agenda of the second workshop**

**AGENDA FOR THE 2<sup>nd</sup> WORKSHOP**  
**ON THE MASTER PLAN STUDY ON PUMPED STORAGE POWER PROJECT**  
**AND OPTIMIZATION FOR PEAKING POWER GENERATION**

Venue: Fuji A, 2<sup>nd</sup> floor, Hotel NIKKO HANOI  
7 August, Thursday

<i>Time</i>	<i>Content/Activity</i>	<i>Person</i>
8:45 ÷ 9:00	<i>Register for participants</i>	
9:00 ÷ 9:05	<i>- Introducing participants</i>	<i>Sonla PMB</i>
9:05 ÷ 9:15	<i>- Welcome address by EVN</i>  <i>- Welcome address by JICA Study Team</i>	<i>Mr. Lam Du Son, Vice General Director of EVN</i>  <i>Mr. Masayuki ITO</i>
9:15 ÷ 10:15	<i>- Preliminary optimization study on peaking power generation</i>	<i>Mr. Yasuhiro YOKOSAWA</i> <i>Mr. Masaharu YOGO</i>
10:15 ÷ 10:30	<i>Tea break</i>	
10:30 ÷ 11:00	<i>- Power sources development scenarios</i>	<i>Mr. Yasuhiro YOKOSAWA</i>
11:00 ÷ 11:30	<i>Q &amp; A</i>	<i>Study Team members</i>
11:30 ÷ 13:00	<i>Lunch (at the hotel)</i>	<i>Participants</i>
13:00 ÷ 14:00	<i>- Feasibility of peaking power</i> <ul style="list-style-type: none"> <li>• <i>Project finding process of PSPP</i></li> <li>• <i>Study on existing power facilities</i></li> </ul>	<i>Mr. Hitoshi FURUKOSHI</i>
14:00 ÷ 14:15	<i>Tea break</i>	
14:15 ÷ 15:00	<i>- Environmental considerations</i>	<i>Mr. Shunji USUI</i>
15:00 ÷ 15:30	<i>Q &amp; A</i>	<i>Study Team members</i>
15:30 ÷ 15:45	<i>- Next Steps</i>	<i>Mr. Masayuki ITO</i>
15:45 ÷ 16:00	<i>- Closing remarks</i>	<i>Mr. Luu The Bieu,</i>

*Hay*  
