

添付資料 10-2-1

第 1 回ワークショップ議事次第

AGENDA FOR THE 1ST WORKSHOP
ON THE MASTER PLAN STUDY ON PUMPED STORAGE POWER PROJECT
AND OPTIMIZATION FOR PEAKING POWER GENERATION

Venue: Fuji A, 2nd floor, Hotel NIKKO HANOI

23 January, Thursday

<i>Time</i>	<i>Content/Activity</i>	<i>Person</i>
8:45 ÷ 9:00	<i>Register for participants</i>	
9:00 ÷ 9:30	- <i>Welcome address of EVN</i>	<i>Mr. Pham Le Thanh, Vice General Director of EVN</i>
	- <i>Welcome address of JICA Study Team</i>	<i>Mr. Masayuki ITO</i>
9:30 ÷ 10:15	- <i>Background of the Study</i>	<i>Mr. Masayuki ITO</i>
	- <i>General approach of the Study</i>	<i>Mr. Masayuki ITO</i>
10:15 ÷ 10:30	<i>Tea break</i>	
10:30 ÷ 11:30	- <i>Method and tools for optimization study</i>	<i>Mr. Masaharu YOGO</i>
	- <i>Preliminary optimization study</i>	<i>Mr. Kazuhiko SHIBA</i>
11:30 ÷ 12:00	<i>Q & A</i>	<i>Study Team members</i>
12:00 ÷ 13:30	<i>Lunch (at the hotel)</i>	<i>Participants</i>
13:30 ÷ 14:45	- <i>Potential study for peaking power sources</i>	<i>Mr. Hitoshi FUROKOSHI</i>
	- <i>Environmental considerations</i>	<i>Mr. Shunji USUI</i>
14:45 ÷ 15:00	<i>Tea break</i>	
15:00 ÷ 15:30	<i>Approach for the financial evaluation</i>	<i>Mr. Muneo KAWAGUCHI</i>
15:30 ÷ 16:00	<i>Q & A</i>	<i>Study Team members</i>
16:00 ÷ 16:15	<i>Closing comment</i>	<i>Mr. Luu The Bieu, SlaPMB</i>

OK
OK

添付資料 10-2-2

第 1 回ワークショッププレゼンテーション資料

Session 1

Approach of the Study

Japan International Cooperation Agency (JICA)

Presentation outline

- Background of the Study
- General approach of the Study

Background of the Study

Power Sources Optimization

- For achieving economic power supply
- For securing reliable system operation



**ideal composition of power sources
for *peak*, middle, and base supply**



Particular conditions in Vietnam

1. Slender geography
2. Rapid increase in demand
3. Demand profile changes
4. Fluctuation of supply capability
5. International electricity trade

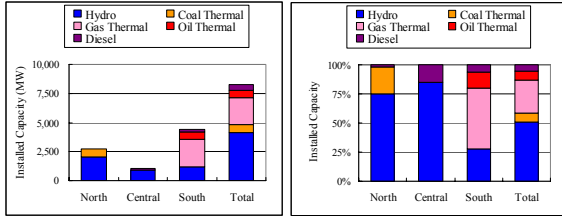
(1) Slender geography



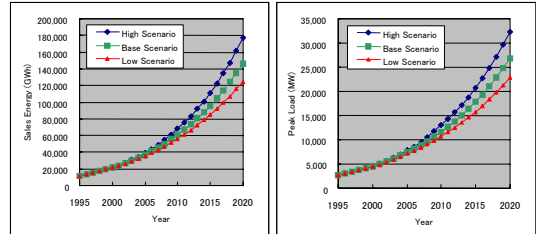
Regional differences

- Demand scale and profiles 
- Power sources composition 

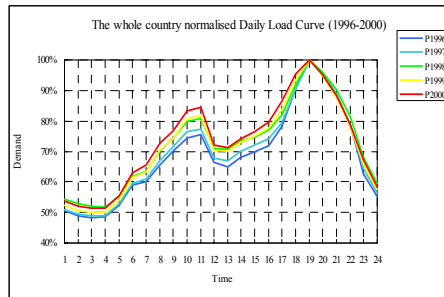
Power sources composition



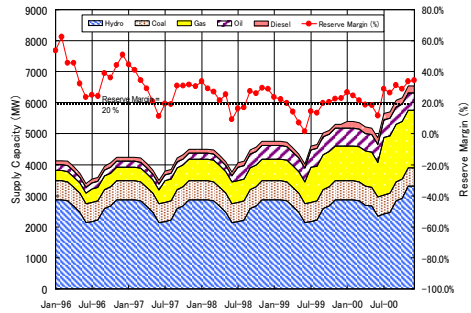
(2) Rapid increase in demand



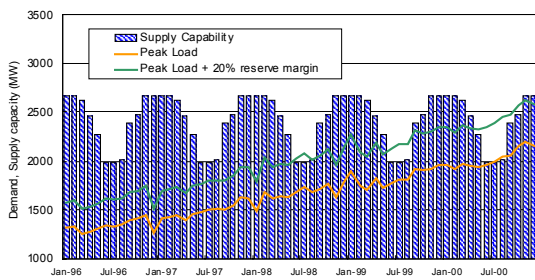
(3) Demand profile changes



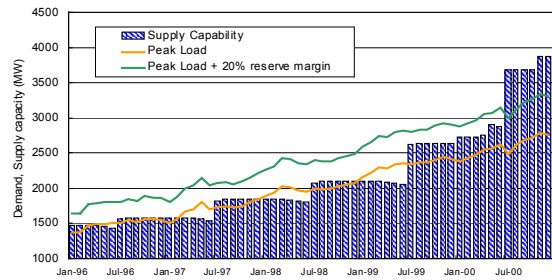
(4) Fluctuation of supply capability



North Region



Central/South Regions



(5) International electricity trade

1. Electricity export markets between Thailand and Vietnam
2. Electricity import from Laos
3. Interconnection with Cambodia and Yunan province (China)

General approach of the Study

Objectives of the JICA Study

1. Optimization of Peaking power sources development
2. Formulation of Master Plan of peaking power sources
3. Contribution to balancing of electricity demand and supply in Vietnam

Study area and Scope (1)

Study area :

whole country

Scope of Study :

3 stages

<Based on S/W and M/M on July 16,2002>

STAGE1: Preliminary assessment

- Review of Master plan
 - Based on
 - Energy policy of Vietnam
 - Distribution of primary energy
 - Demand
- Actual situation survey
 - Hydropower plants
 - Thermal power plants
 - Load dispatching centers

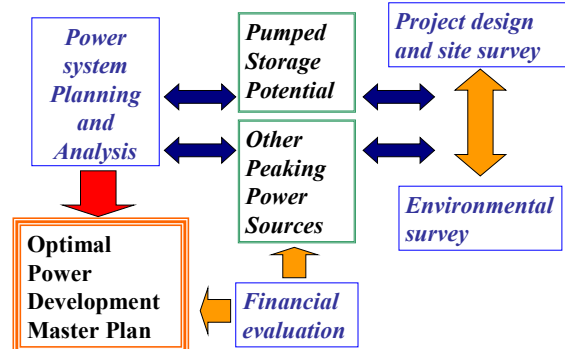
STAGE2: Project Identification

- ◆ Criteria for finding pumped storage potential sites
- ◆ The pumped storage candidate sites selection
- ◆ Preferential candidate sites selection

STAGE3: System optimization

- ◆ Economic viability of alternatives of peaking power supply
- ◆ Environmental viability
- ◆ Optimal power sources composition
- ◆ Master plan of peaking power source development

Study Flow



Underground Power House Cavern