



**BATAN**

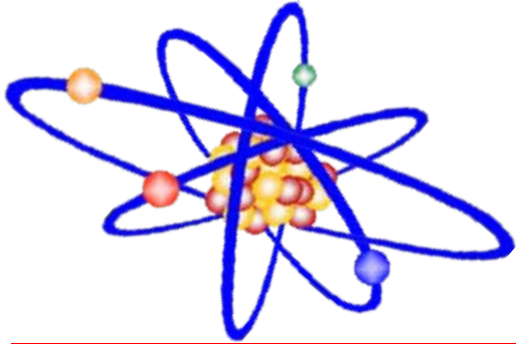
# **FRAMEWORKS AND ACTIVITIES OF DIALOGUES FOR DEPLOYMENT AND DEVELOPMENT OF THE FIRST NPP IN INDONESIA**

Bambang Suprawoto

**Presented at workshop on Common User Criteria for Development and  
Deployment of Nuclear Power Plants for Developing Countries**

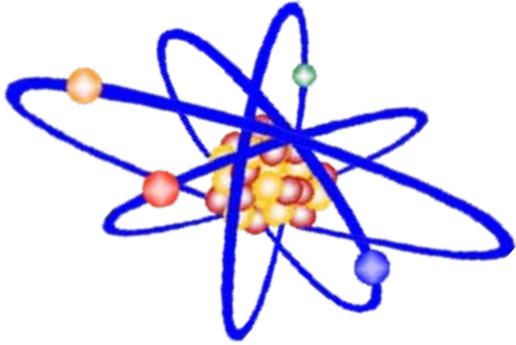
**September 22-25, Vienna, Austria**

**BADAN TENAGA NUKLIR NASIONAL / National Nuclear Energy Agency  
JL. KUNINGAN BARAT, MAMPANG PRAPATAN, JAKARTA 12710, TELPON: 5255213**



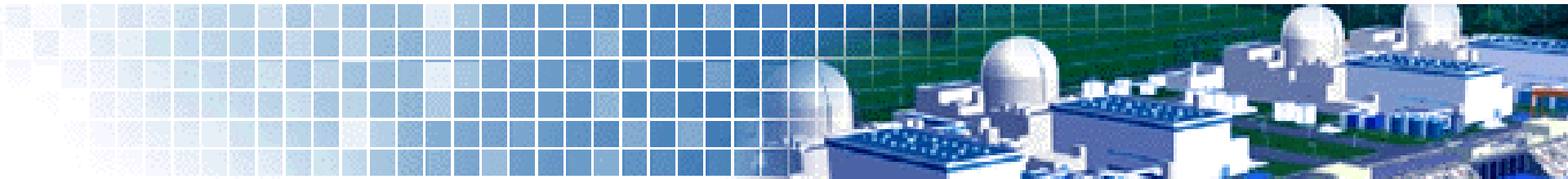
# OVERVIEW

**INTRODUCTION**  
**FRAMEWORKS AND ACTIVITIES**  
**CONCLUSION**

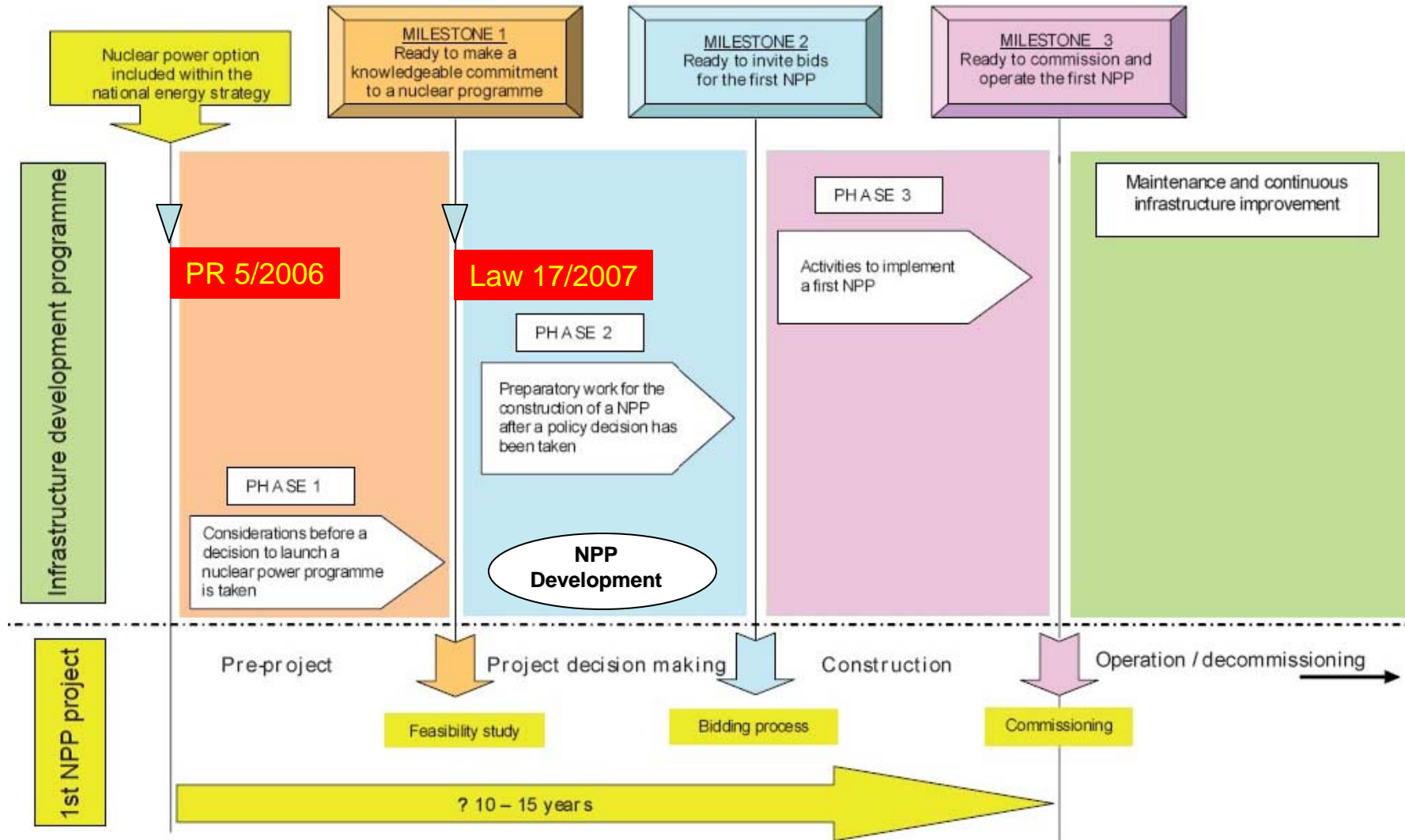


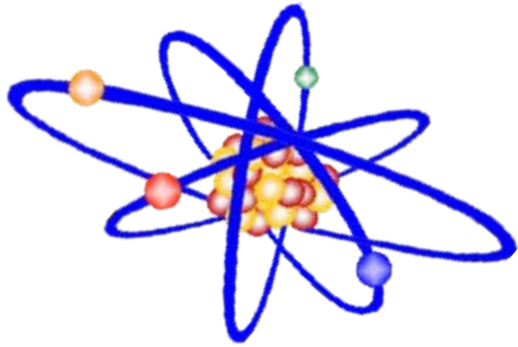
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# INTRODUCTION



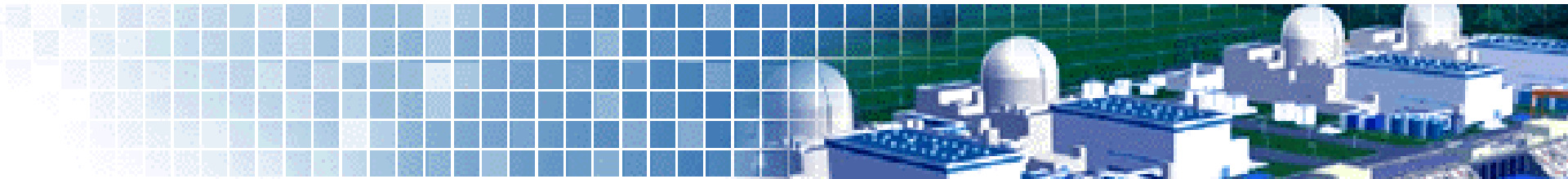
# INFRASTRUCTURE DEVELOPMENT PROGRAMME & NPP PROJECT





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## FRAMEWORKS AND ACTIVITIES



# **COOPERATION WITH KOREA (KHNP)**

**Framework: Cooperation on the promotion of nuclear power plant in Indonesia (MOU Dec. 4, 2006)**

## **Activities:**

1. Training & Development of HRD Program (Training, WS & Report)
2. Assistance of Technology Selection (Report)
3. Development of User Requirement Document (URD) (Report)
4. Development of Site Permit Document (DIQ) and Technical Assistance for Site Survey (Report)
5. Preparing the Localization Plan (Report)
6. Support the Public Acceptance Activities (WS & Report)

# COOPERATION WITH JAPAN (JETRO)

**Framework: Cooperation in the promotion of nuclear power plant development (MOU Nov. 22, 2007)**

## **Activities:**

1. Electrical Condition for the First NPP in Java-Bali Powers System (WS)
2. NPP Site Permit, Construction Permit and its Regulation (WS)
3. Human Resource Developmentt for NPP (WS & ADV)
4. Emergency Preparedness for NPP (WS)
5. Geologycal Hazard Assessment, Volcanology & Seismology (WS)

6. Financial Study (WS & ADV)
7. Licensing Procedures and Related Documents (WS & ADV)
8. Operation Management and Safety Assessmentt of NPP(Training Course)
9. Licensing Proccess (Training Course)
10. Public Information Activities (WS & ADV)

# **FUTURE ACTIVITIES**

## **COOPERATION WITH IAEA :**

### **PRE FEASIBILITY STUDY ON INTRODUCTION OF SMALL & MEDIUM REACTOR FOR COGENERATION IN KALIMANTAN/BORNEO (2009-2011)**

## **CONTENTS OF STUDY :**

- 1. STUDY ON ENERGY SUPPLY PLANNING IN  
KALIMANTAN.**
- 2. STUDY ON ELECTRIC POWER SYSTEM PLANNING IN  
KALIMANTAN**
- 3. STUDY ON ECONOMY AND FINANCING**
- 4. INFRASTRUCTURE SURVEY IN KALIMANTAN**
- 5. STUDY ON NATIONAL PARTICIPATION**

6. MAN POWER SURVEY & DEVELOPMENT PROGRAM
7. STUDY OF SMR SAFETY & TECHNOLOGY
8. STUDY OF COGENERATION TECHNOLOGY  
(DESALINATION, H<sub>2</sub> PRODUCTION, COAL  
GASSIFICATION/LIQUEFACTION, & ENHANCE OIL  
RECOVERY)
9. SITE SURVEY
10. ENVIRONMENTAL ASSESSMENT

## **WORKSHOP :**

11. WORKSHOP ON NATIONAL INDUSTRY PARTICIPATION PLANNING & INFRASTRUCTURE.
12. WORKSHOP ON MAN POWER & DEVELOPMENT PROGRAM
13. WORKSHOP ON SMR SAFETY & COGENERATION TECHNOLOGY
14. WORKSHOP ON SITE SURVEY
15. WORKSHOP ON ENVIRONMENTAL ASSESSMENT

## **MEETING :**

**KICK OFF MEETING, PROGRESS REVIEW MEETING**

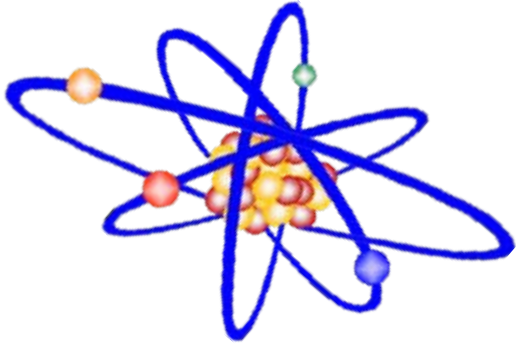
# **FUTURE ACTIVITIES**

## **POSSIBLE COOPERATION WITH OTHER TECHNOLOGY HOLDER COUNTRIES (RUSSIA, FRANCE, ETC)**

THE AREAS ARE :

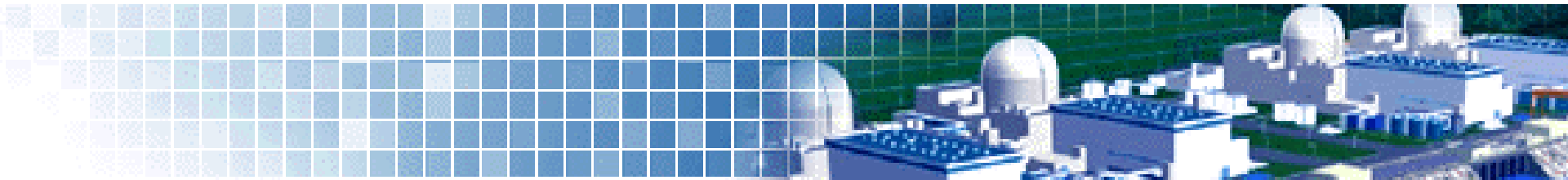
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5. ENVIRONMENTAL ASSESSMENT
6. STUDY ON ECONOMY AND FINANCING
7. INFRASTRUCTURE SURVEY
8. STUDY ON NATIONAL PARTICIPATION & TRANSFER  
OF TECHNOLOGY
9. ETC.



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## CONCLUSION



# Conclusion

- The energy development in Indonesia requires the introduction of NPP in the second decades of 21st century, and the first NPP is expected to be in operation by 2016-2019 for Java – Madura – Bali grid.
- Indonesia continuously develops basic NPP infrastructure.
- Indonesia has reached an agreement for joint studies with Japan and Korea on many aspects of NPP project.
- Similar activities with other technology holder countries (Russia, France, etc) are possible.



**THANK YOU**