

## **OPENING REMARK**

### **DEPUTI BATAN CHAIRMAN FOR NUCLEAR ENERGY TECHNOLOGY**

*Bismillahirrohmanirrohiim,*

*The honorable Mr. Satoru Yasuraoka, Nuclear Infrastructure Development Section - IAEA  
The distinguished IAEA experts: Ms. Leena Jylha (Finland) and Mr. Sadika Touffie (South Africa)*

*The distinguished lecturers, and  
The distinguished Workshop participants.*

*Good Morning,*

*National development, which is an effort to improve the welfare of the people must be carried out continuously. Accelerating the fulfillment of people's welfare through development can be done with industrialization in all sectors. To support the industrialization process going well and sustainably, it is necessary to guarantee a reliable and sufficient energy supply. Therefore, not only food security needs to be realized by the government, but also energy security to support the sustainability of national development, include nuclear energy as a potential energy role in national energy mixed.*

*Nuclear Power Plant (NPP) has the characteristics of capital-intensive and technology-intensive. These characteristics will provide significant economic and industrial leverage. NPP is a technology that has high safety standards and will have an impact on high national industrial quality standards, and will increase the capacity of human resources (HR).*

*Development of appropriate infrastructure to support the successful development of NPP safely, securely, peacefully and efficiently is very important. In contrast to conventional power plants, preparation of infrastructure development requires more in-depth and comprehensive study related to safety aspects. The infrastructure required to support the implementation of NPP includes both soft infrastructures and hard infrastructure aspects.*

*In 2008, Indonesia conducted a comprehensive self-evaluation of the readiness of the infrastructure for Phase 1 (first phase) of NPP development, i.e. the evaluation phase of the infrastructure readiness for considering NPP construction project implementation. This evaluation refers to IAEA safety guide on the evaluation of the development status of national infrastructure. This self-evaluation was completed in 2009.*

*The IAEA milestone approach shows the stages/phases of infrastructure readiness to build an NPP:*

- First phase: Infrastructure readiness for considering the establishment of NPP construction project implementation.*
- Second phase : Infrastructure readiness for considering the establishment of NPP construction project implementation.*

- *Third phase: Infrastructure readiness for the implementation of NPP construction and operation*

*The results of this self-evaluation was reviewed by the IAEA through the Integrated Nuclear Infrastructure Review Mission (INIR Mission) held in November 2009, in Jakarta. The summary results shows that Indonesia has done extensive preparations in most aspects of infrastructure that allows for more consideration to the use of nuclear energy, and can step forward to prepare Phase 2, i.e. the construction preparation phase. It is recommended that for further preparation, strong government policies are needed to implement nuclear power plants in the national energy mix.*

*In more detail, IAEA stated in the review results that there are still three (3) aspects of infrastructure (out of 19 aspects) that require significant actions, namely: national position, management and stakeholder involvement aspects. These three aspects of the infrastructure are linked to each other and if it is good prepared, so that could support for clear and knowledgeable decision.*

*Related to the implementing organization of the nuclear power plants development infrastructure preparation, IAEA suggests to establish NEPIO (Nuclear Energy Program Implementation Organization). This organization plays an important role in the implementation of a nuclear energy program, which includes the preparation of the decision to set up a nuclear energy program implementation, coordinate the relevant institutions in the implementation of nuclear energy utilization or implementation role in the nuclear energy program. This organization will be expected to form the organizational infrastructure required, such as owners of nuclear power plants and other organizations as needed.*

*The involvement of the national industry is an important infrastructure that must be prepared so that the technology transfer process can run well and reduce dependence on nuclear power plant technology suppliers. The title of this workshop is the Industrial Involvement which will discuss about industry readiness in supporting the construction of nuclear power plants. Take a lesson learn from various countries that are successful in the process of technology transfer, the main actors are national industries, so it is important to prepare the national industry in supporting the construction of nuclear power plants at the initial stage, the construction stage and the operation stage.*

*That's all my remarks, by saying **Bismillahirrahmanirrahim**, I declare this Workshop was opened. Have a fruitful discussion, hopefully it will give benefit and support our national industry infrastructure development.*

*Thank you,*

*Suryantoro  
Deputy BATAN Chairman for Nuclear Energy Technology*