


# **vietnam national nuclear energy development program and infrastructure preparation**

*By*

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# 1. Vietnam policy on nuclear energy development

- ◆ Vietnam will develop nuclear energy to meet its energy demand (National Assembly Resolution).
  - ◆ Vietnam will develop nuclear energy for peace purpose only.
  - ◆ Nuclear energy development in Vietnam must be safe for human and environment.
  - ◆ Development of nuclear energy in Vietnam should be based on best and proven technology.
  - ◆ Vietnam will cooperate with countries with advanced nuclear technology and closely with IAEA to develop its nuclear energy.
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## 2. Vietnam national nuclear energy development program

- ◆ Vietnam Government has approved the Master plan for nuclear energy development for the period to 2030 (Decision 906/QD-TTg dated 17/6/2010) with targets:
  - By the year 2030, the total capacity of nuclear energy will be app. 15000 MW.
  - By the year 2025, the total capacity of nuclear energy will be app. 8000 MW.
  - By the year 2020, Vietnam will build 2 nuclear power plants in Ninh Thuan province of 2000 MW each.
  - The target of operation of 1<sup>st</sup> plant is 2021 (2000 MW) and of the 2<sup>nd</sup> plant is 2022 (2000 MW).

### 3. Preparation for building of first 2 plants

- ◆ Vietnam Government has decided to choose ROSATOM from Russia to be its partner to build the first plant (Ninh Thuan 1).
- ◆ The responsible organization of Vietnam in building the plant is Vietnam Electricity Group (EVN).
- ◆ EVN, Rosatom and E4 Group (Russia) signed an cooperation agreement on developing of Ninh Thuan 1. E4 Group is responsible for preparing an investment study report.
- ◆ The partner for the 2<sup>nd</sup> plant (Ninh Thuan 2) will be Japan (name of company has not been determined).

## **4. Infrastructure preparation for nuclear energy development in Vietnam**

- ◆ Law on nuclear energy had been passed by National Assembly in June 2008.
- ◆ Government Decree guiding the implementation of nuclear energy, detailing in nuclear power plant has been approved in June 2010.
- ◆ Many other legal documents such as ministerial circular, prime minister's decisions have been issued (regulating the radioactive security, radioactive safety, radioactive and nuclear safety inspection, nuclear safety assessment for nuclear power plant location etc.).

## 4. Infrastructure preparation for nuclear energy development in Vietnam (con't)

- ◆ State Steering Committee for Ninh Thuan nuclear power plants, headed by Deputy Prime Minister had been formed with many ministers as its members.
- ◆ Many projects on infrastructure have been approved and being implementing:
  - Master plan for nuclear energy development for the period to 2030,
  - Project on human resource development for the period 2011 - 2020,
  - Master plan for 2 first plants location,
  - Project on establishment of Center for public relation on nuclear energy project, etc.

## **5. IAEA support in infrastructure preparation for nuclear energy development in Vietnam**

- ◆ IAEA has help Vietnam a project on management activity with many infrastructure issues, eg.:
- Nuclear safety,
- Management system,
- Funding and financing,
- Legislative framework,
- Regulatory framework,
- Radiation protection,
- Human resource,
- Emergency planning,
- Radioactive waste, etc.

## **5. IAEA support in infrastructure preparation for nuclear energy development in Vietnam**

Each infrastructure issues contains various action with responsible/counterparts, eg.:

- Nuclear safety: developping and implementing of training program for reactor physics, safety analysis, safety assessment traning, etc.
- Management: development of management system for key involved organizations, risk management, etc.
- Legislative framework: fellowship to international legal instruments, legal system for nuclear power, etc.
- Human resource: assist to develop the national HRD strategy, review and advice for a nuclear engineering training program, etc.



**Thank you !**

