

ENERGY SECURITY WORKSHOP

Turkey's Nuclear Power Program **2030**





VISION DOCUMENT (DRAFT)

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“Turkey's Nuclear Power Programme 2030”

(03-05 December 2015, Istanbul)

PART 1

Important National Areas of Policy Regarding the Development of NPP

Basic Assumptions

1. Nuclear power production, in contrast with other energy producing options, is not a liberalised process. There are restrictions of national and international policies.
2. Each and every phase of the nuclear power production process goes through intense international and national regulations and inspections.
3. The full free market conditions, become valid after the sale phase of the product (electricity and heating)

Result obtained from these basic assumptions: **The guidance of the state is crucially important necessity** for the implementation of the Nuclear power projects.

Under the light of this main result, **As the State's Decision:**

- 1.1- National development Policy
 - 1.1.1- National Energy Policy (Analysis of the Need for Energy and Scenarios)
 - 1.1.1.2- Turkey's Nuclear Energy Policy
 - 1.2- International Nuclear Cooperation
 - 1.2.1- Cooperation With International Institutions
 - 1.2.1.1- “Exterritorial” Negotiation in the Nuclear Area (USA, Brazil, Canada,England, France, Spain, South Korea, Japan)
 - 1.2.1.2- Regional Cooperation in the Nuclear Area (Russia, Bulgaria, Iran, Romania, India, Pakistan, Egypt, Kazakhstan, Azerbaijan, Israel and Greece)
 - 1.3 Determining the Rate of Dependence on Foreign Suppliers

PART 2

Nuclear Energy Programme; Our Current Situation and Determining Our Predictions

- 2.1- Situation of the Akkuyu Nuclear Powerplant and it's place in the NPP
- 2.2- Aspects of the Nuclear Energy Production
- 2.3- Economy of the Nuclear Energy Production
- 2.4- Our Predictions regarding the Nuclear Energy Projects
- 2.5- Our Macro Nuclear Energy Plan

PART 3

Subjects of Law, Regulation and Inspection

- 3.1- Need of Law on International Level
- 3.1.1- National Legislation of Nuclear Regulation and Inspection
- 3.1.1.1- National Licensing and Inspecting Regime
- 3.1.1.2- Responsibility Regarding the 3'rd Person
- 3.2- Need for Law on International Level
- 3.2.1- International Security and Safety Regimes
- 3.2.1.1 Responsibility Regarding the 3'rd Person

PART 4

NPP Financing

- 4.1- Determining the Main Aspects Regarding the Subject of Financing
- 4.2- Determining Financing Sources for NPP
- 4.3- Strategic and Economic Analysis of Financing Advices

PART 5

Development of Our Human Resources

- 5.1- Public Diplomacy
- 5.1.1 Communication Strategies
- 5.1.2 Kamu Bilinçlendirme Programı
- 5.1.3- Education Programme
- 5.1.4- Including the Public into the Decision Process
- 5.2- Scientific and Technical Education Programmes
- 5.2.1- Vocational Education
- 5.2.1.1 Vocational Schools
- 5.2.1.2 Higher Vocational Schools
- 5.2.1.3 University Education

PART 6

Localisation of Nuclear Technology

- 6.1- Standardisation of the Nuclear Powerplant
- 6.2- Main Aspects in the Production of Nuclear Powerplant Workers
- 6.3- Main Aspects in the Production of the Steam Production System
- 6.4- Our Knowledge, Skills, Experience and our Production Capacity and Potential in Conventional Energy and Power Technology



NOTES

With a financing of about 1% of the nuclear energy investments; after a 10 year-campaign of intense working and education, it is possible for us to reach a level where we can gain a high amount of earnings from the transfer of nuclear technology; similar to the examples of South Korea and China.

We must build a **“Nuclear Committee of Wise Men”** of our experts who have long years of experience regarding the subject. It is a necessity for this committee which must be formed of people who are experts of the subjects stated above, to have a secretariat. Also; it is vital for the institutions that provide the international standards regarded by the national framework which will be formed, to become realised as soon as possible.

Furthermore; committees formed by experts (both foreign and local) who are capable of working on the subjects ordered above respectively to a certain hierarchy, must be formed as urgently as possible. **“The Nuclear Committee of Wise Men”** can be very useful both in order to form and organise these other committees, and to choose the experts suitable for these committees.

The committees activities will include: Conferences, workshops, technical trips of expert groups and individuals, education within the country and abroad, generalised and detailed work regarding each title of subjects, producing articles, books and reports. The outcome of these activities will be put to display for decision makers, after being evaluated by the Nuclear Committee of Wise Men.

Main Shareholders who's Participation in these Activities is Crucial:

- Prime Ministry
- Ministry of Science, Industry and Technology
- Ministry of Energy and Natural Sources
- Ministry of National Defence
- Ministry of Education
- Council of Higher Education
- Ministry of Foreign Affairs
- Ministry of Development
- Ministry of Economy
- Ministry of Environment and Urbanisation
- Ministry of Forestry and Water Affairs



ISTANBUL SECURITY CONFERENCE

This conference which host different discussions regarding the subject of national, international security and global governance every year; will be centred in Istanbul. Considering the fact that Istanbul is a source of inspiration in terms of understanding the newly shaping world, with its historical and present references, its intellectual accumulation regarding the subject and its experience with the East and West; this conference aims to positively contribute Turkey adopting the role of being a global source of wisdom. Soft and hard power, new sectoral diplomacy and security channels, the construction of power and justice, the new nature of state, rising powers and changing international system shaped by the rivalry parameters of “micro-nationalism, integration, unpredictability” will be the subjects of discussion at the forthcoming future conferences.