



# THE NEW REGULATORY INFRASTRUCTURE in TURKEY

Nuclear Regulatory Authority

2019

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- History
- Regulatory Infrastructure
- Regulatory Framework
- Nuclear Regulator
- Nuclear Facilities

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### **1956 Atomic Energy Commission**

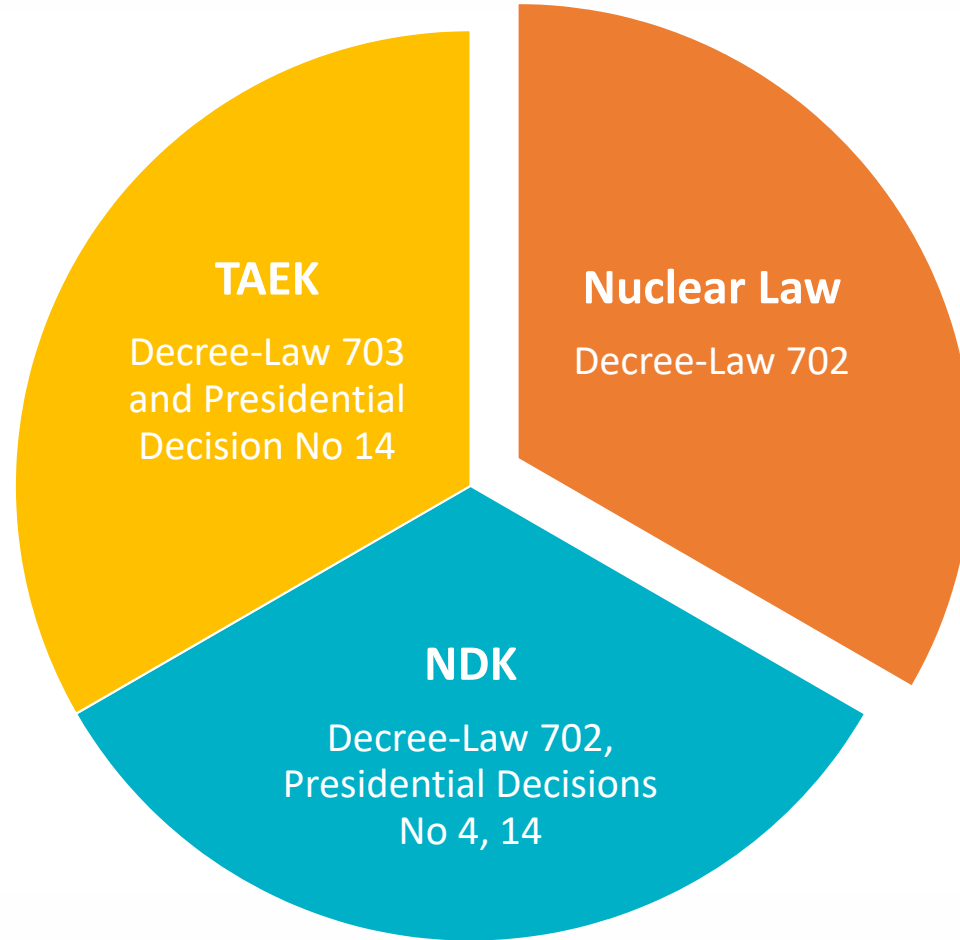
Research Centers, research reactors  
Çekmece Nuclear Research and Training Center– TR1 and  
Istanbul Technical University– TRIGA Mark II  
Akkuyu Site License

### **1983 Turkish Atomic Energy Authority**

Research Centers,  
Power uprate of TR-1 from 1 MW to 5 MW to be TR-2  
Proton Accelerator Facility  
Regulatory control over nuclear and radiological facilities and activities  
First authorizations of Akkuyu Nuclear Power Plant

### **2018 Nuclear Regulatory Authority NDK**

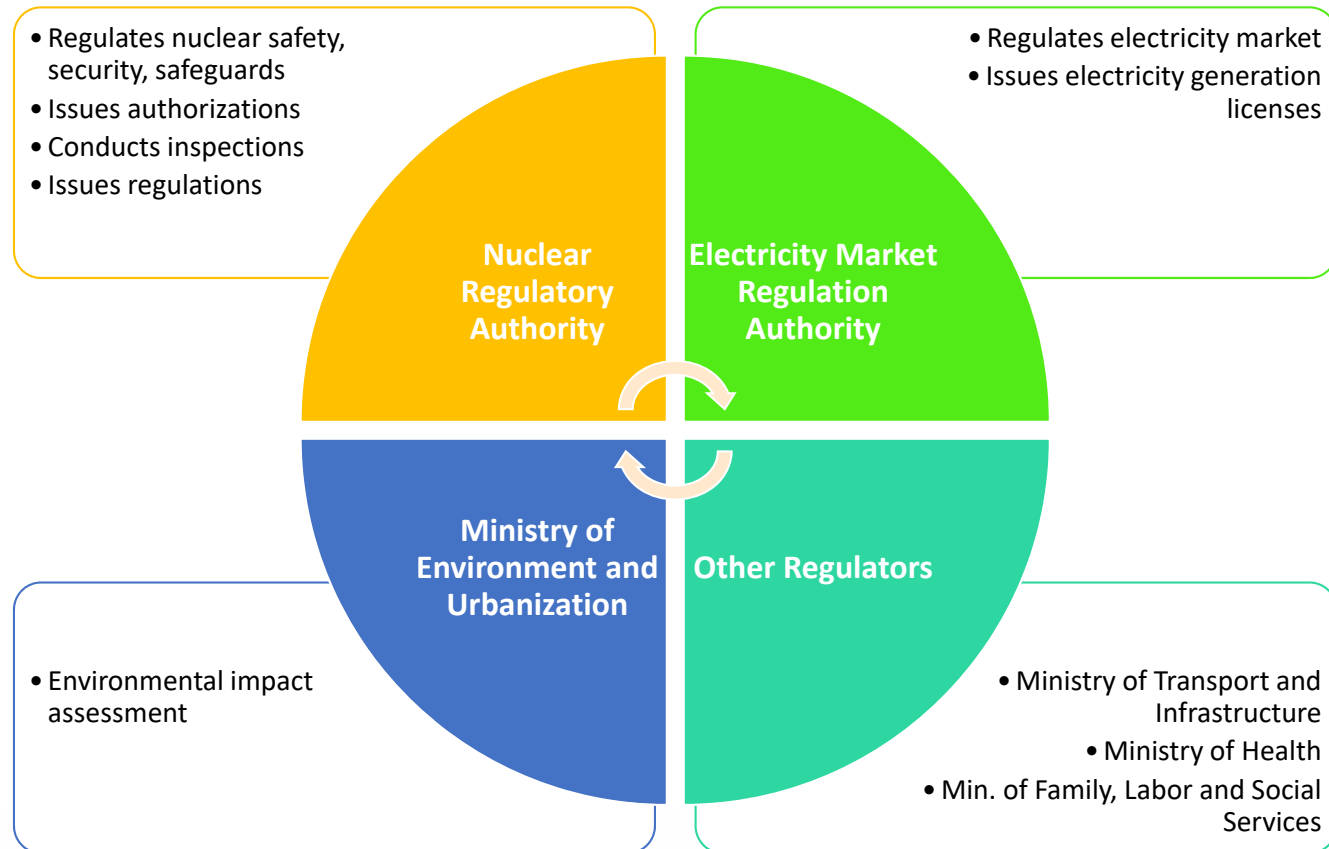
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### ***Decree Law (KHK) no 702 (+ Presidential decree no 4 and 14)***

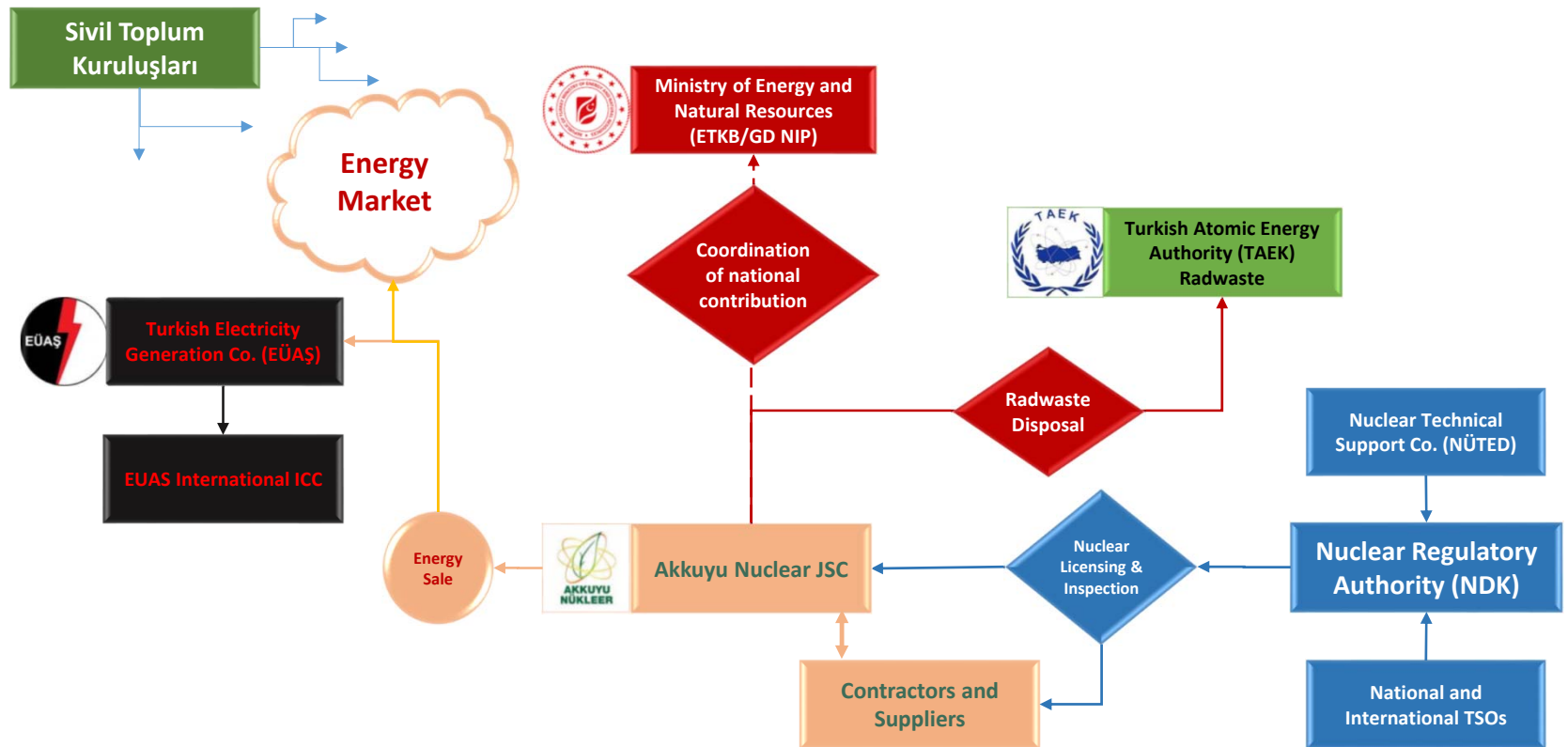
- Regulates the facilities and activities, laying out responsibilities of relevant parties
- Establishes an Independent Nuclear Regulatory Authority
- Addresses issues like
  - Prime responsibility
  - Authorizations
  - Radioactive waste management
  - Decommissioning
  - Funds for radioactive waste management and decommissioning
  - Fines and penalties (Law no 7164)

## Main Regulators



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## Stakeholders other than regulators



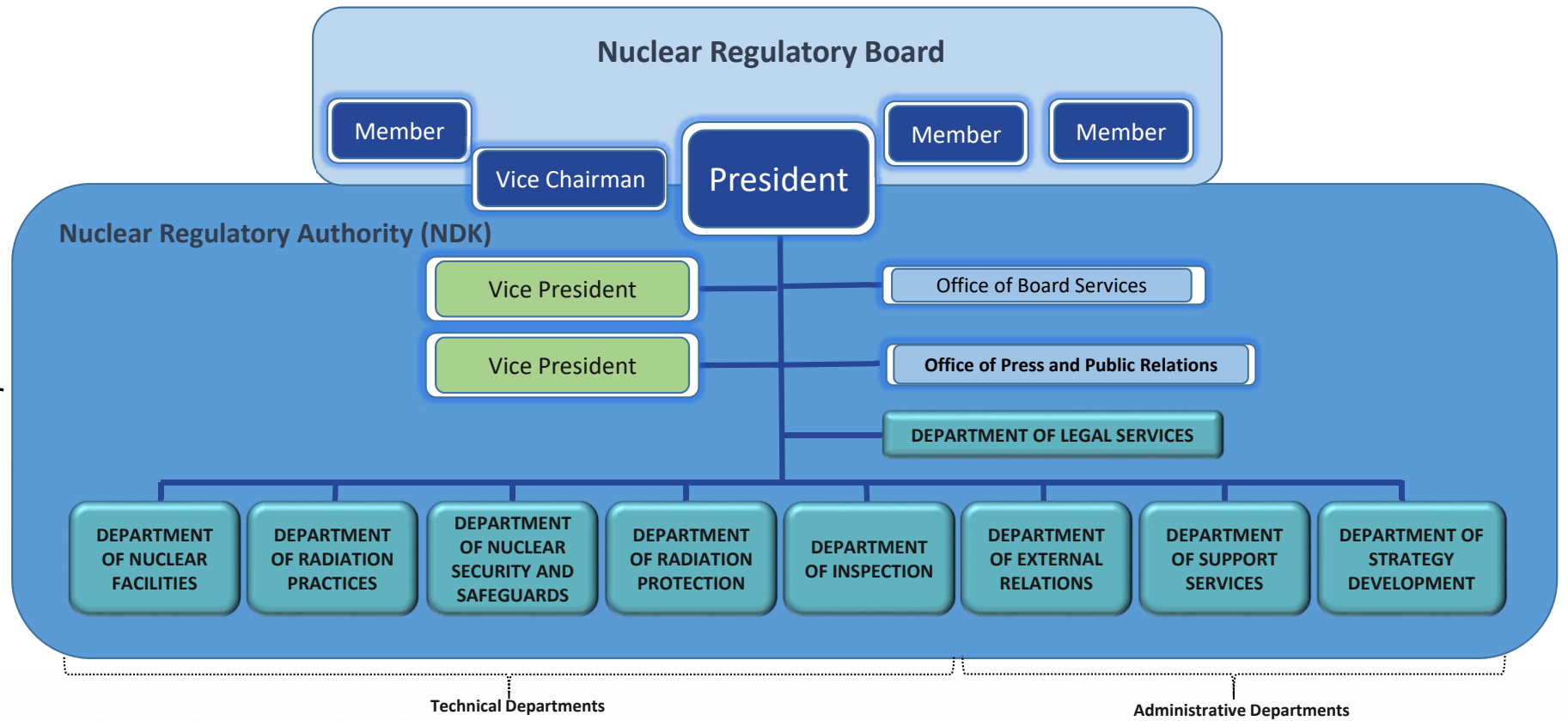
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## ***Nuclear Regulatory Authority (NDK)***

- Established in July 2018
- Board members by February 2019 and staff by April 2019
- Independent regulatory body on
  - Radiation protection
  - Nuclear, radiation and waste safety
  - Nuclear security, safeguards and
  - Radiological emergency
- Authorized for
  - Issuing technical regulations
  - Authorizing facilities and activities
  - Inspecting facilities and activities
  - Certificating personnel, companies providing services to licensees



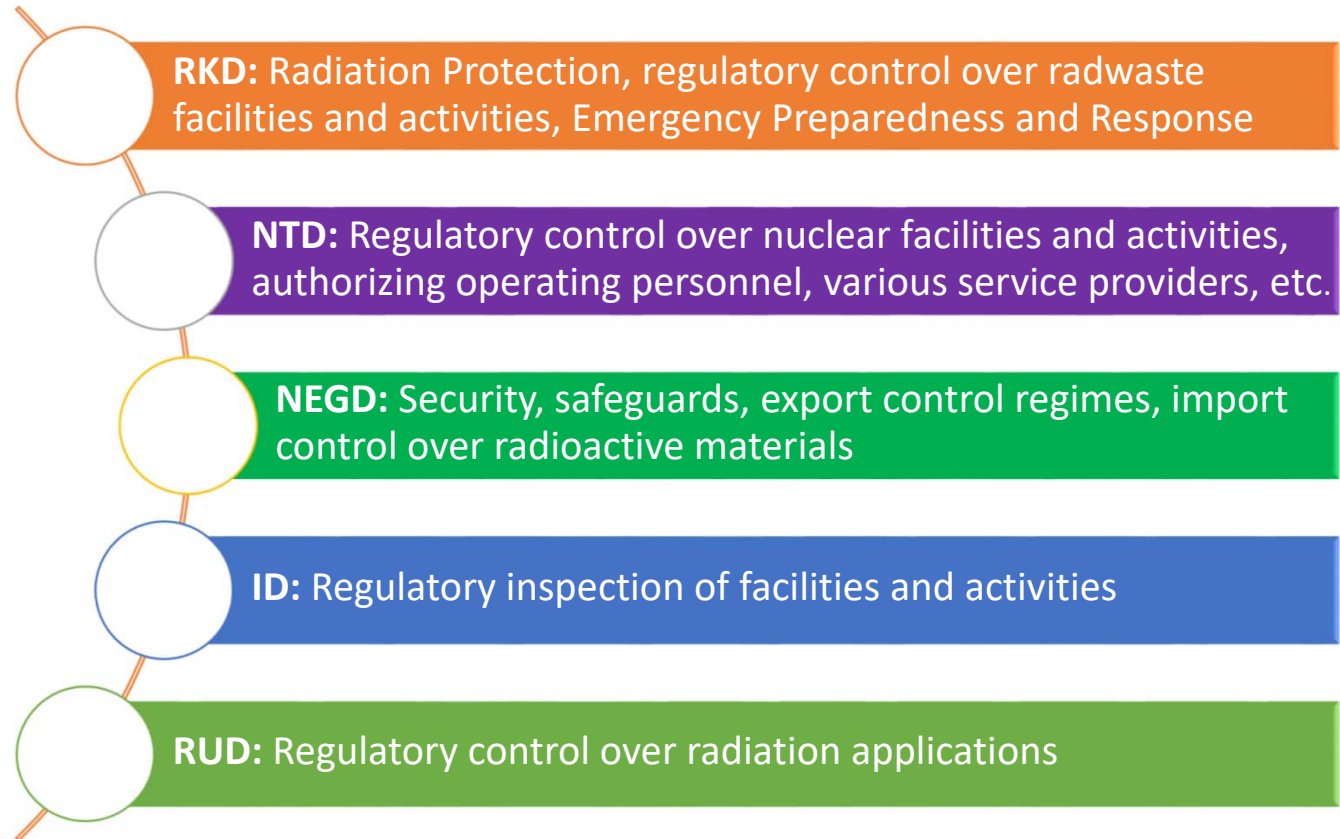
## Nuclear Regulatory Authority (NDK)



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## ***Nuclear Regulatory Authority (NDK)***


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 TR2 5 MW Pool type  
 TRIGA 250 kW TRIGA MARK II


 Sinop NPP




 Akkuyu NPP  
 4x1200 VVER 1200


 3<sup>rd</sup> NPP  
 Type, location, vendor TBD

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## ***Akkuyu NPP Project***

- Intergovernmental agreement with Russian Federation 2010 for 4 units of VVER 1200
- Build, own, operate, decommission
- Site license in 2014
- CL application for first unit in March 2017
- Limited work permit in late October 2017 and construction license in early April 2018
- First concrete in unit one in April 2018
- CL application for second unit in June 2018, LWP in November 2018 and CL in August 2019
- CL application for third unit in March 2019



NÜKLEER DÜZENLEME KURUMU

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THE END...

*Thanks for your patience!...*