

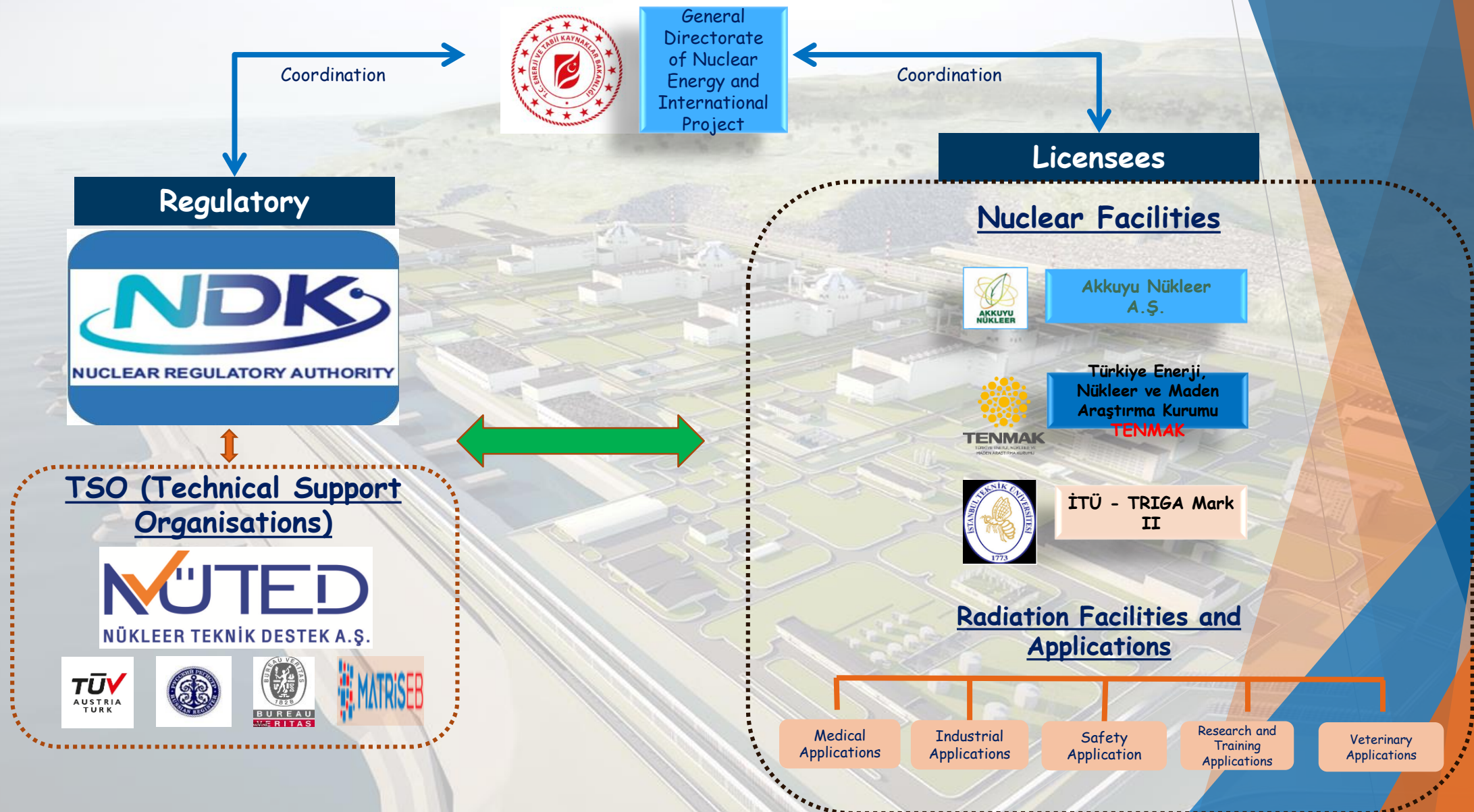
NÜTED (NUCLEAR TECHNICAL SUPPORT ORGANIZATION)

5. MDEP Conference, Antalya - Türkiye

24-25 April 2023

Yusuf CEYLAN

- 
- ❖ **Turkish Regulatory Ecosystem**
 - ❖ **Technical Support Organisation (NUTED)**
 - ❖ **NUTED's Establishment and Development Steps and Organisation**
 - ❖ **NUTED Services to NDK**
 - ❖ **Future Plans and Projects of NUTED**
 - ❖ **Challenges and Lesson Learnt**

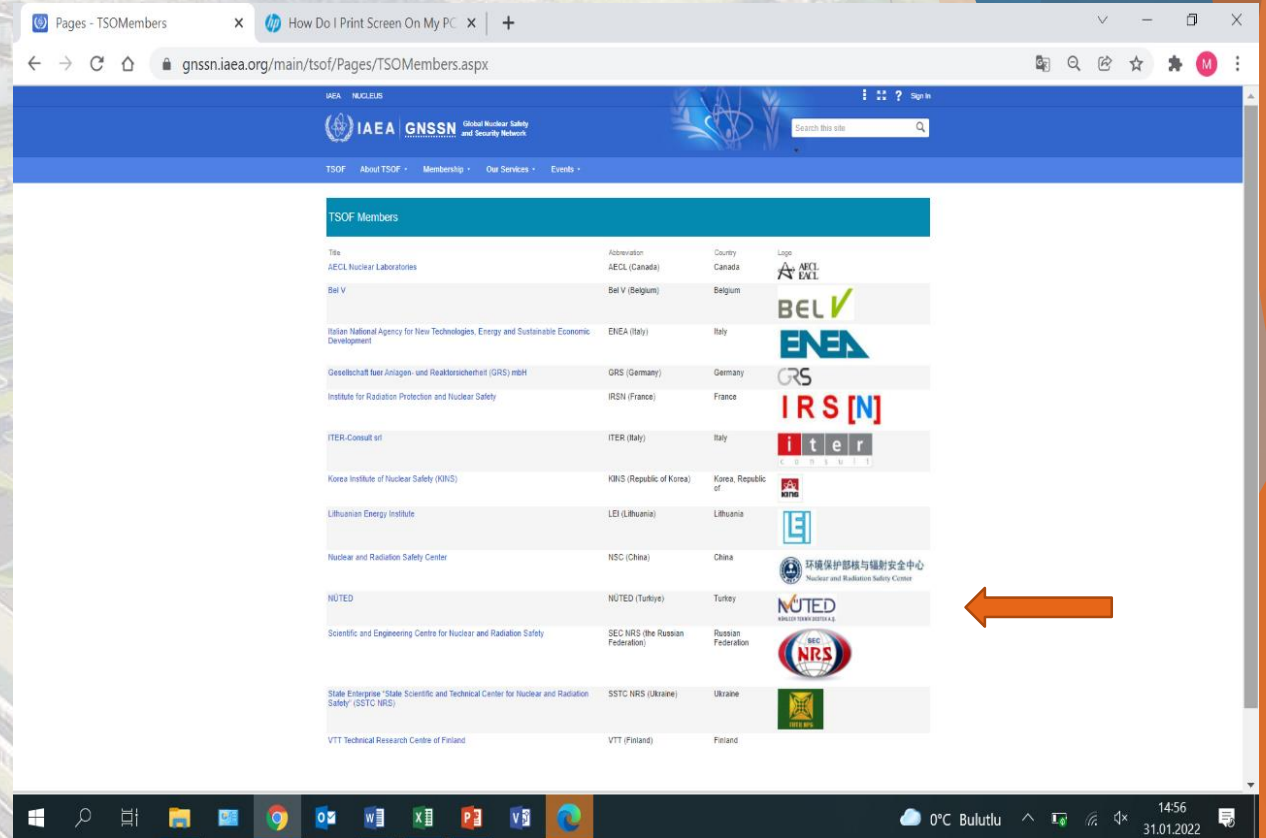


What is the Role of NÜTED?

- ☢ NÜTED provides technical and scientific support to the Turkish Nuclear Regulatory Authority «NDK» and its regulatory functions as well as the associated activities and processes to maintain the needed level of expertise, state of the art tools and equipment.
- ☢ NÜTED's main support functions are authorization, review and assessment, analyses, inspections, trainings, drafting regulations and guides.

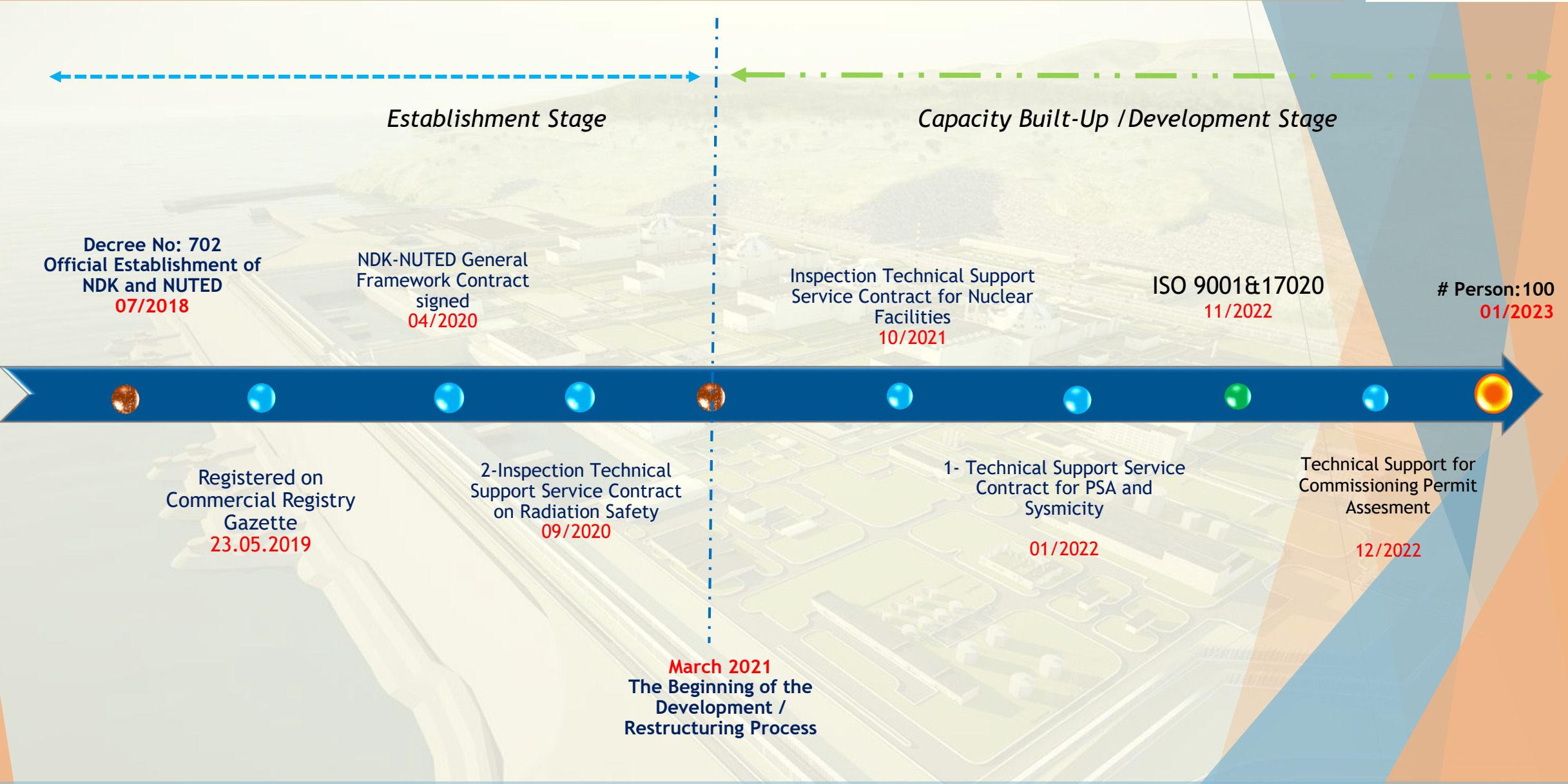


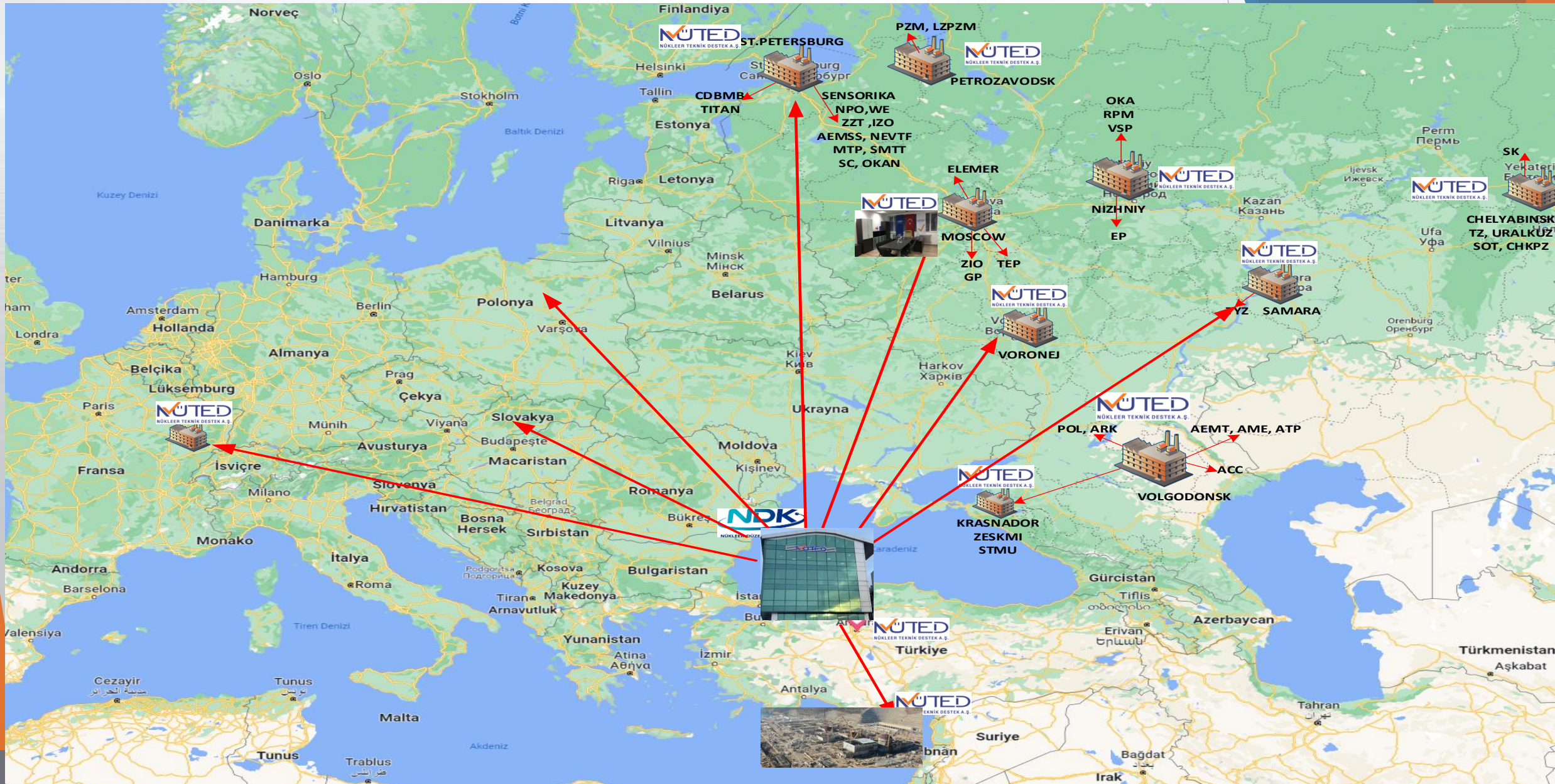
NÜTED Headquarter in Ankara



Memberships

NUTED's STEPS of ESTABLISHMENT and DEVELOPMENT





NÜTED's EXPERTISE BASED ORGANIZATION PLAN (Future Planning)



1st Unit



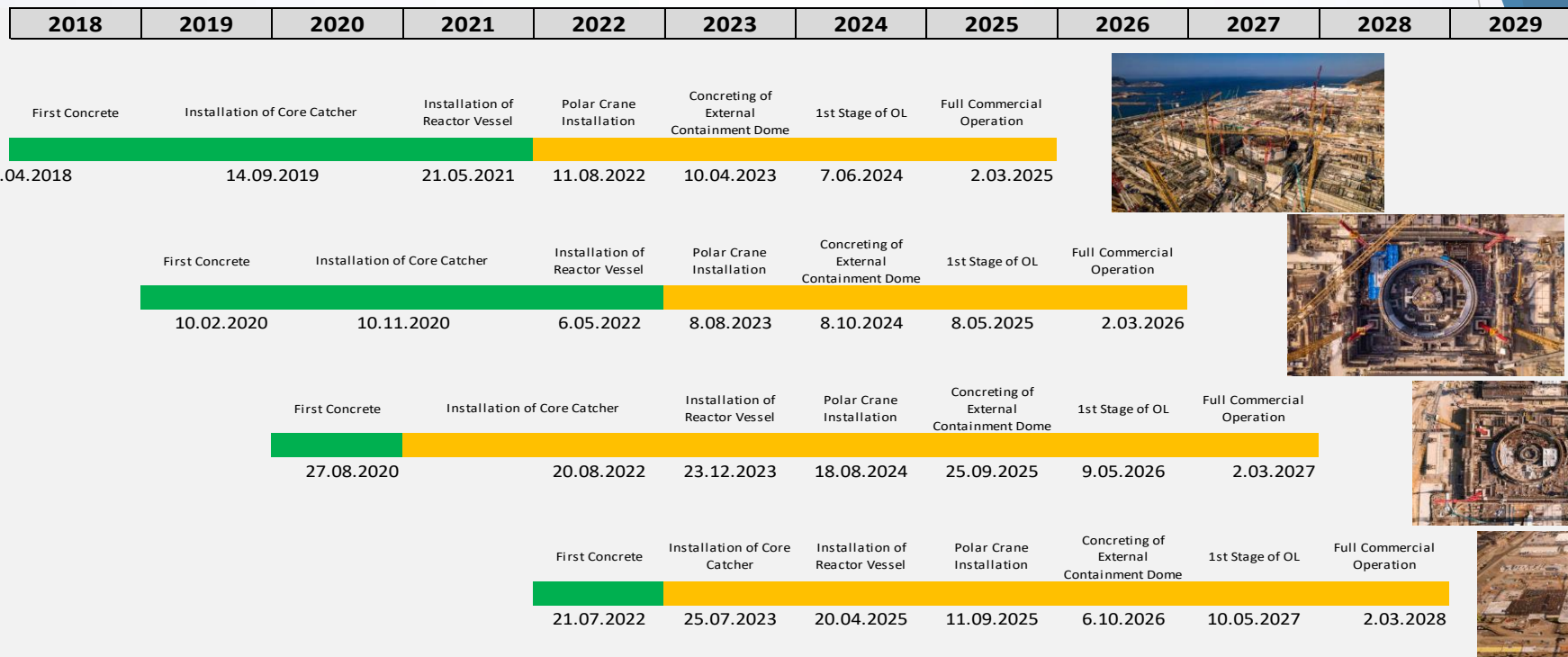
2nd Unit



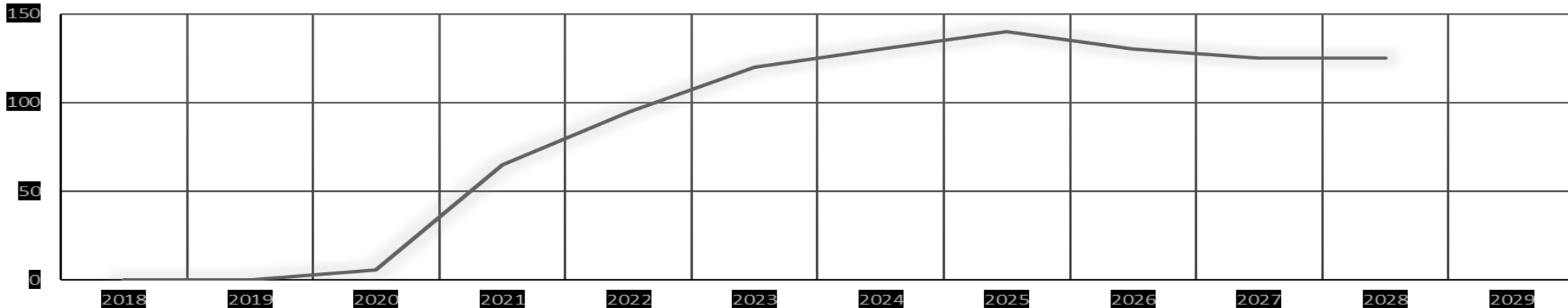
3rd Unit



4th Unit

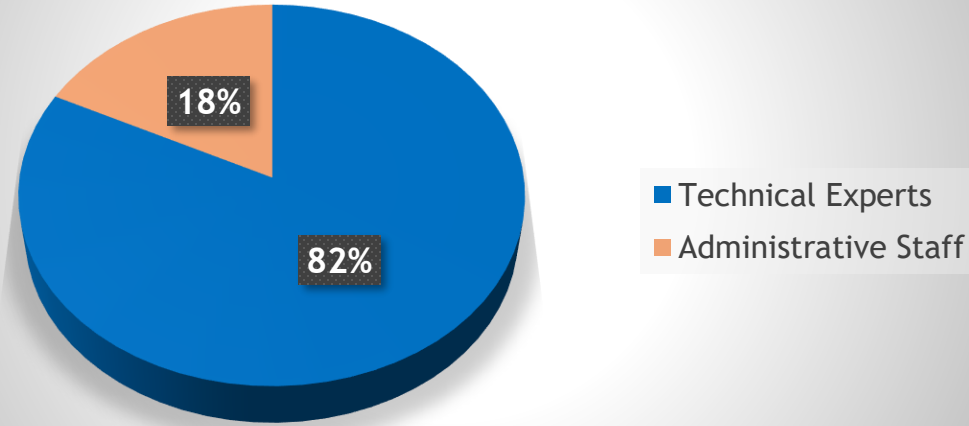


Total # of Technical Experts

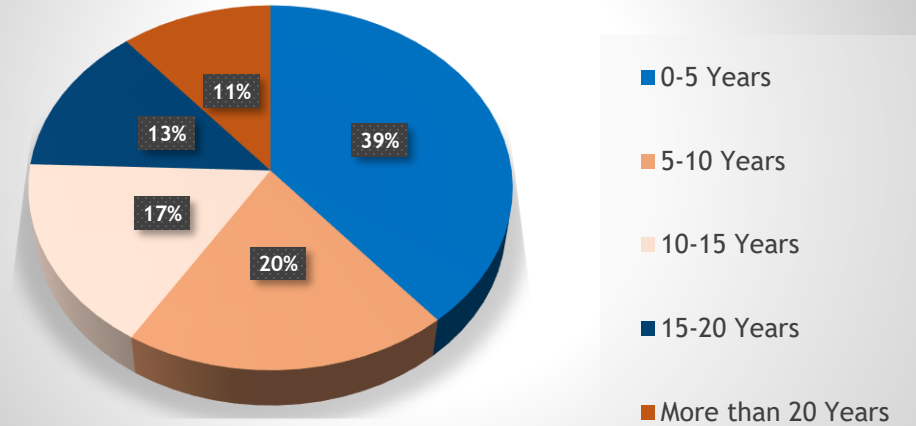


NÜTED's EXPERTISE BASED ORGANIZATION (Current Status)

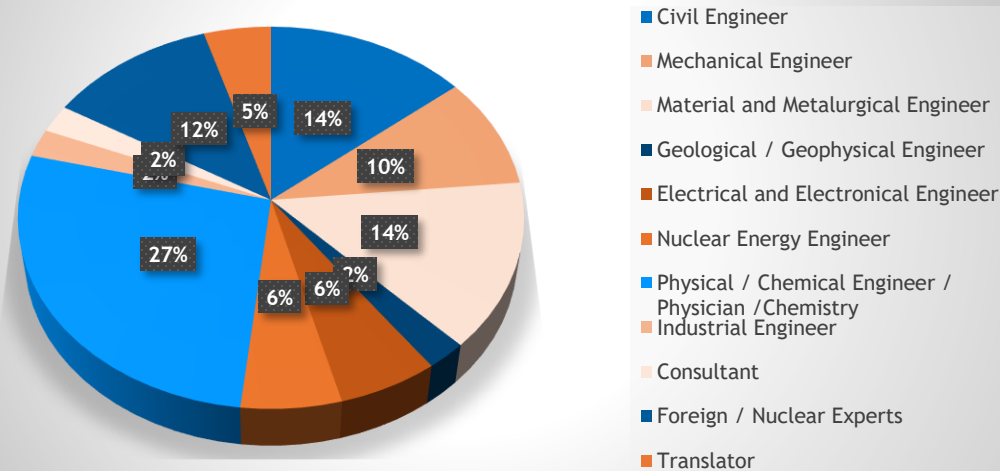
NÜTED Staff Distribution



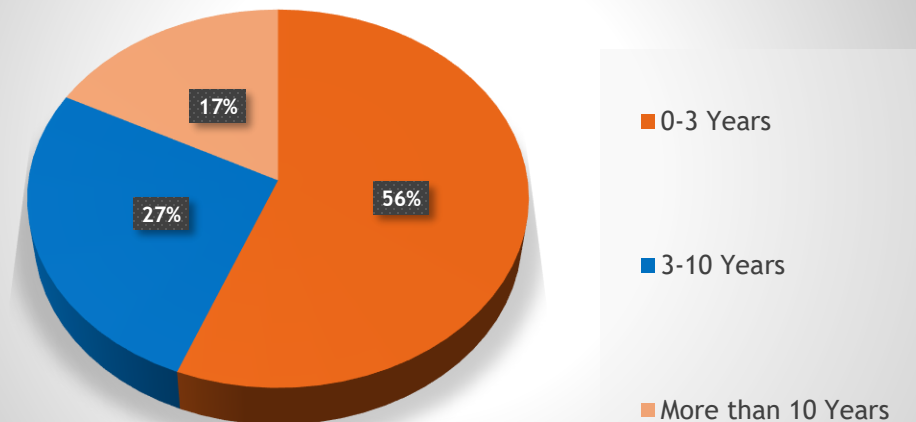
NÜTED Technical Expert Distribution (According to Expertise)



NÜTED Technical Expert Distribution (According to Disciplines)



NÜTED Technical Expert Distribution (According to Nuclear Expertise)



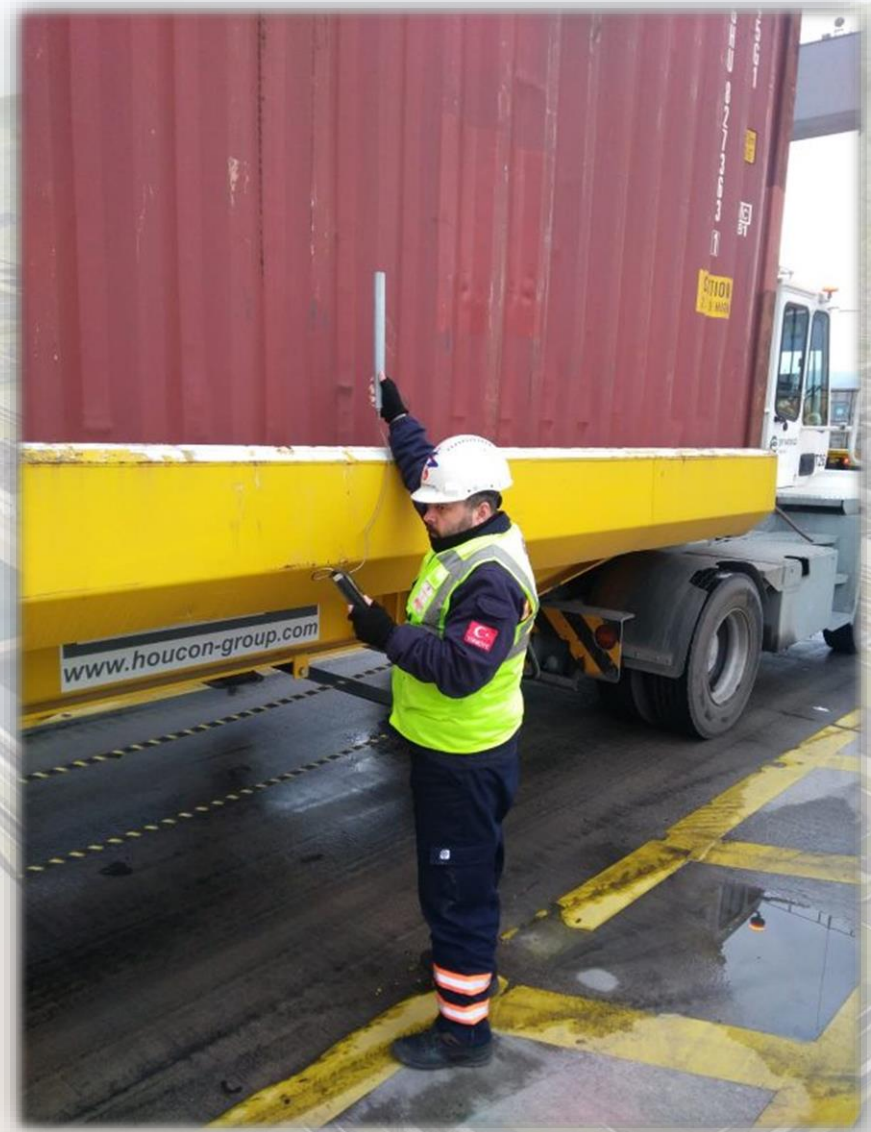
NUTED SERVICES TO NDK (Manufacturing Inspections)



NUTED SERVICES TO NDK (On-Site Inspections)



NUTED SERVICES TO NDK (Radiation Safety)



☢ Surveillance/Inspection Services for;

- ☢ Site Surveillance
- ☢ NPP Equipment Manufacturing Inspection,
- ☢ NPP On-site Inspection (Site, Construction and Installation,)
- ☢ Radiation Facilities and Sources

☢ Licensing, Analyses, Safety Review and Assessment Services for;

- ☢ Probabilistic Safety Analysis for level-1 & Level-2,
- ☢ Probabilistic Safety Analysis for Seismic,
- ☢ Training and Consultancy for Preparation of Commissioning Phase
- ☢ Review and Assessment of the Commissioning Application for NPP



☢ Approval, Training and Certification Services;

- ☢ Nuclear Equipment Vendor Approval
- ☢ Personal Qualification
- ☢ Nuclear Inspector Qualification Training
- ☢ Basic Nuclear Safety and Nuclear Culture Training

Technical Support for Inspection and Licensing

-  Supporting Regulatory Authority's inspection activities for Commissioning and Operational phases
-  Supporting Regulatory Authority's licensing process from Commissioning phase and Operational phases

Emergency Case Coordination Center Support Service


-  Emergency Case Coordination Center will be required after commissioning of NPP
-  Technical and man power support for the Emergency Case Coordination Center

New Nuclear Project

-  To give Support to Regulatory Authority or Licensee' for Review Assessment and Oversight for whole Life-Cycle of NPP from Site to Decommissioning phase ; Egypt, Uzbekistan & Hungary NPP Projects
-  To Establish infrastructure for New-Comer Countries

✓ ISO 17020 certificate granted with the end of 2022!

✓ ISO 9001:2015 certificate granted in February 2023

 Türk Akreditasyon Kurumu

AKREDİTASYON SERTİFİKASI

"A Tipi" Muayene Kuruluşu olarak faaliyet gösteren,


NÜTED NÜKLEER TEKNİK DESTEK ANONİM ŞİRKETİ
Merkez Adres: MUSTAFA KEMAL MAH. 2127 CAD. NO:42/7 ÇANKAYA Ankara / Türkiye

TÜRKAK tarafından yapılan denetim sonucunda TS EN ISO/IEC 17020:2012 standardına göre Ek'te yer alan kapsamlarda akredite edilmiştir.

Akreditasyon No : AB-0734-M
Akreditasyon Tarihi : 16.11.2022
Revizyon Tarihi / No : undefined / null
Revizyon Tarihi / No : 16.11.2022 / 00

Bu Sertifika, yukarıda açık adı ve adresi yazılı Kuruluşun TS EN ISO/IEC 17020:2012 Standardına, İlgili Yönetmelik ve Tebliğlere uygunluğunu sürdürmesi halinde **15.11.2026** tarihine kadar geçerlidir.

Gülden Banu Müderrisoğlu
Genel Sekreter



Türk Akreditasyon Kurumu (TÜRKAK) ISO/IEC 17020 alanında Avrupa Akreditasyon Birliği (EA) ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile çok taraflı anlaşma (MLA/MRA) imzalamıştır.

Bu belge 5070 sayılı elektronik imza kanununa göre Gülden Banu Müderrisoğlu tarafından güvenli elektronik imza ile imzalanmıştır. E-imza ile belgeyi doğrulamak için QR kodunu kullanabilirsiniz.

050702202305260001

F201-010 +90 312 450 82 00 www.turkak.org.tr

  **KALİTE YÖNETİM SİSTEMİ BELGESİ**
QUALITY MANAGEMENT SYSTEM CERTIFICATE 

TÜRK STANDARDLARI ENSTİTÜSÜ
bu belge ile
NÜTED NÜKLEER TEKNİK DESTEK A.Ş.
MUSTAFA KEMAL MAH. 2127. CAD.
NO:42/7 ÇANKAYA -
ANKARA / TÜRKİYE

kuruluşunun TS EN ISO 9001:2015 şartlarına uygun bir KALİTE YÖNETİM SİSTEMİNE sahip olduğunu onaylar.

Belge kapsamı Ek'te verilmiştir



TÜRK STANDARDLARI ENSTİTÜSÜ
TURKISH STANDARDS INSTITUTION

Sistem Belgelendirme Grup Başkanı
Head of System Certification Group

Mesut Duru

Türk Standartları Enstitüsü Türk Akreditasyon Kurumu TÜRKAK tarafından akredite edilmiştir.
Turkish Standards Institution, has been accredited by the Turkish Accreditation Agency TÜRKAK.

TURKISH STANDARDS INSTITUTION
hereby certifies that the organization
NÜTED NÜKLEER TEKNİK DESTEK A.Ş.
MUSTAFA KEMAL MAH. 2127. CAD.
NO:42/7 ÇANKAYA -
ANKARA / TÜRKİYE

has a QUALITY MANAGEMENT SYSTEM which fulfills the requirements of the TS EN ISO 9001:2015

Scope of the certificate is given in annex

Belge No / Certificate No	KY-643823
Belge Tarihi / Date of Certificate	07.02.2023
Geçerlilik Tarihi / Valid Until	07.02.2026
Revizyon Tarihi / Date of Revision	07.02.2023
İlk Belge Tarihi / Initial Certification Date	07.02.2023

This certificate is valid provided that compliance with the certification requirement is maintained.

□ ISO 19443, planned for 2023!!!

- 
- ✓ Lack of human sources in Nuclear...
(Find the professionals from similar industries such as Oil and Gas, Abroad Project etc..)
 - ✓ Lack of Experience with new Nuclear Technology...
(Hiring experienced professionals from the countries which are using similar technology)
 - ✓ Sustainability of the Company Resources with the different stages of Project...
(Possibility to give services to similar industries or newcomer countries)
 - ✓ Dependency to Project Schedule (uncertainties of the Project)...
(Planning and acting proactively for the different possibilities of the project.)

Thanks for listening...

Questions...?

Yusuf CEYLAN
NUTED - Director General
Mail: yusuf.ceylan@nuted.com.tr