

September 2023

Enusa in the nuclear fuel market

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State owned company



State owned company

Enusa is a state owned company that was incorporated in 1972 to serve the ambitious Nuclear Power Plant plans.

60 %



Sociedad Estatal de Participaciones Industriales

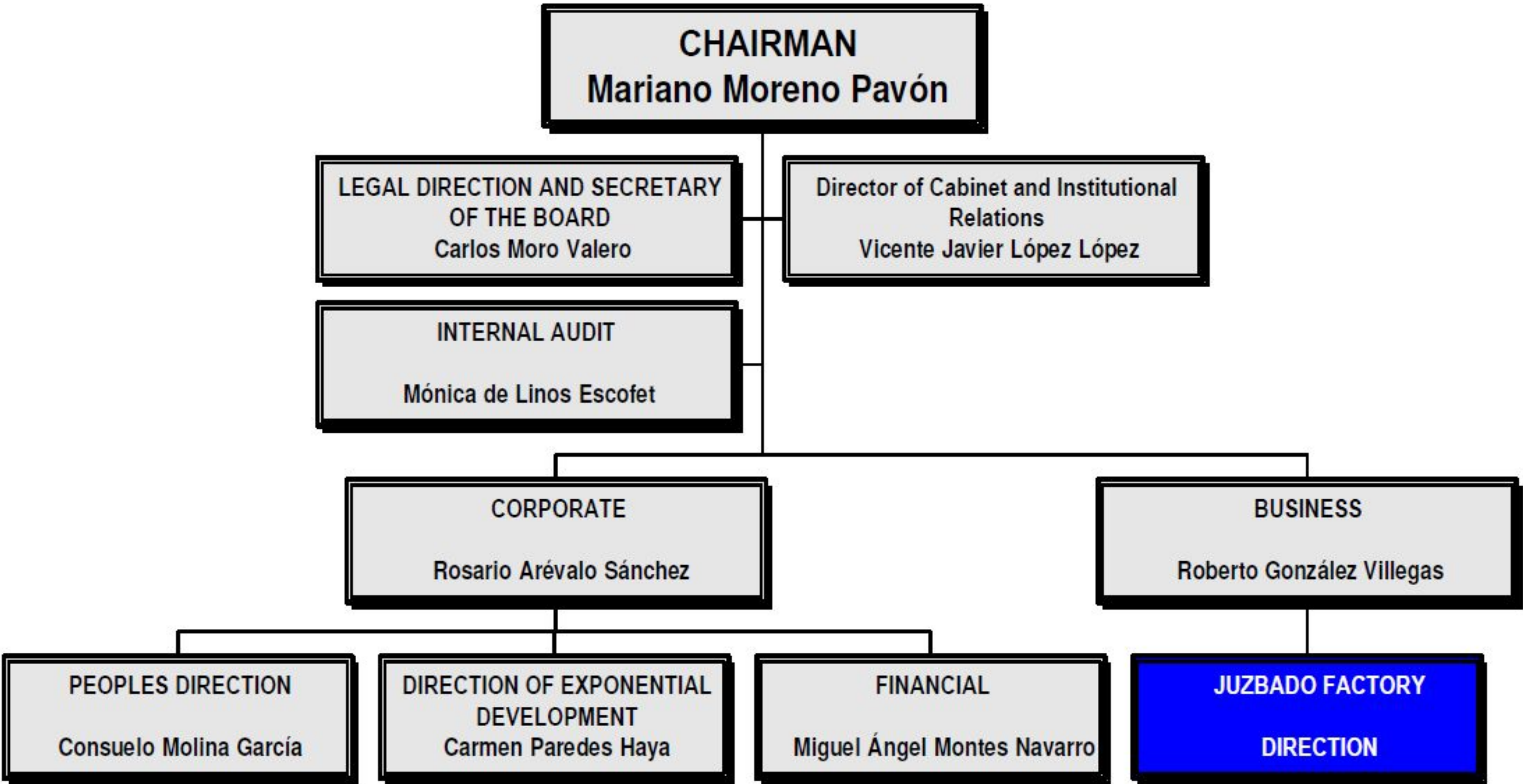
40%



Business areas:

- Nuclear business
- Environmental business

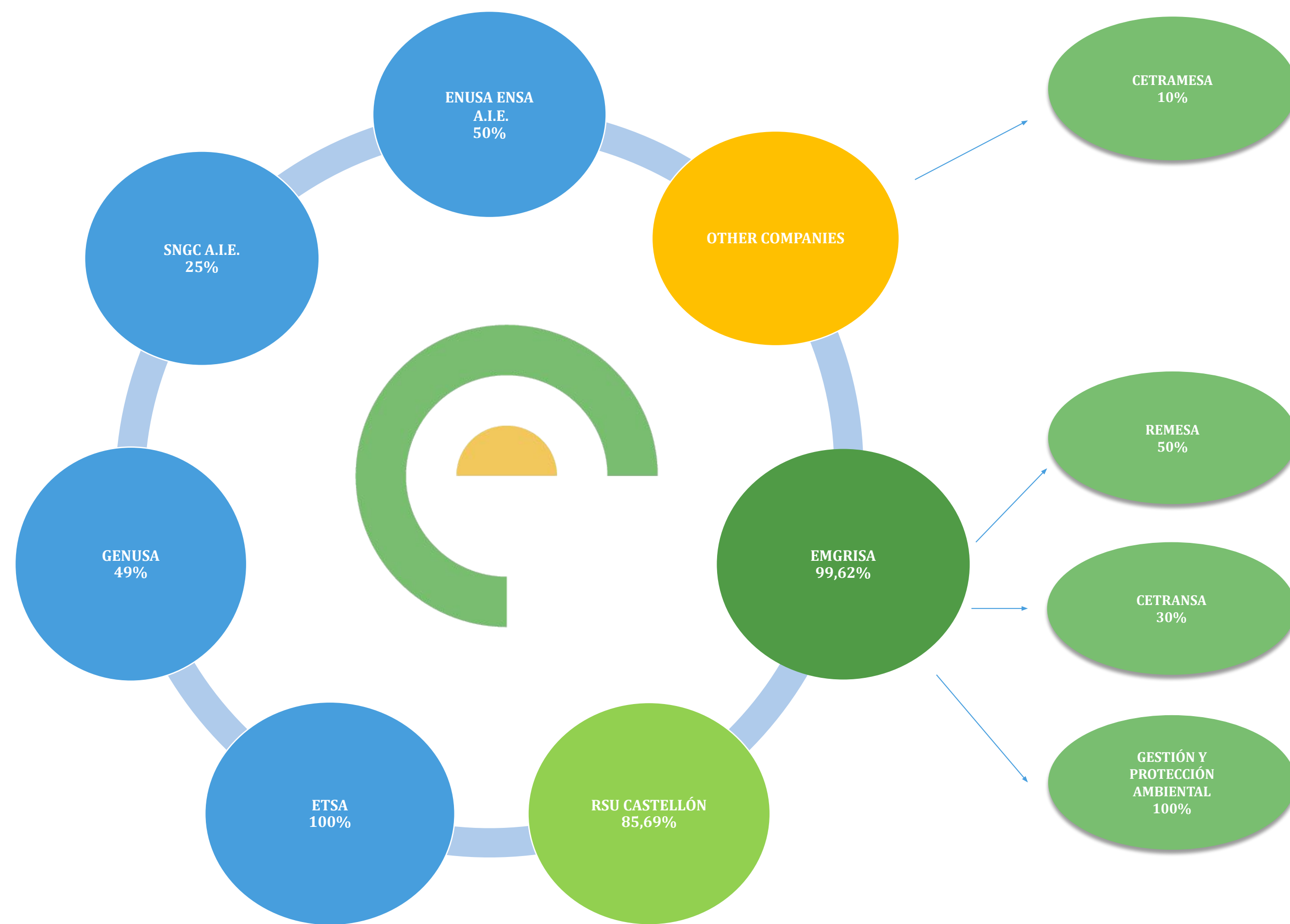
Board of Directors



Structure of Enusa Group



Enusa Group



2022 nuclear fuel main figures



2022 nuclear fuel main figures

Enusa has been able to keep a steady figure of sales and profits during the last years.

Sales
267,27M€

Profit after
tax
3M€

Workers
661 people

2022 nuclear fuel main figures

Juzbado facility

Serving the Spanish NPPs since 1985, and in the European Market from the 90s.

Leibstadt was the first NPP in Europe to receive nuclear fuel manufactured at Juzbado.

Licensed capacity
500 tU/year

Authorized enrichment
<5w/o u-235

2022 production
1028 assemblies
448 PWR
580 BWR

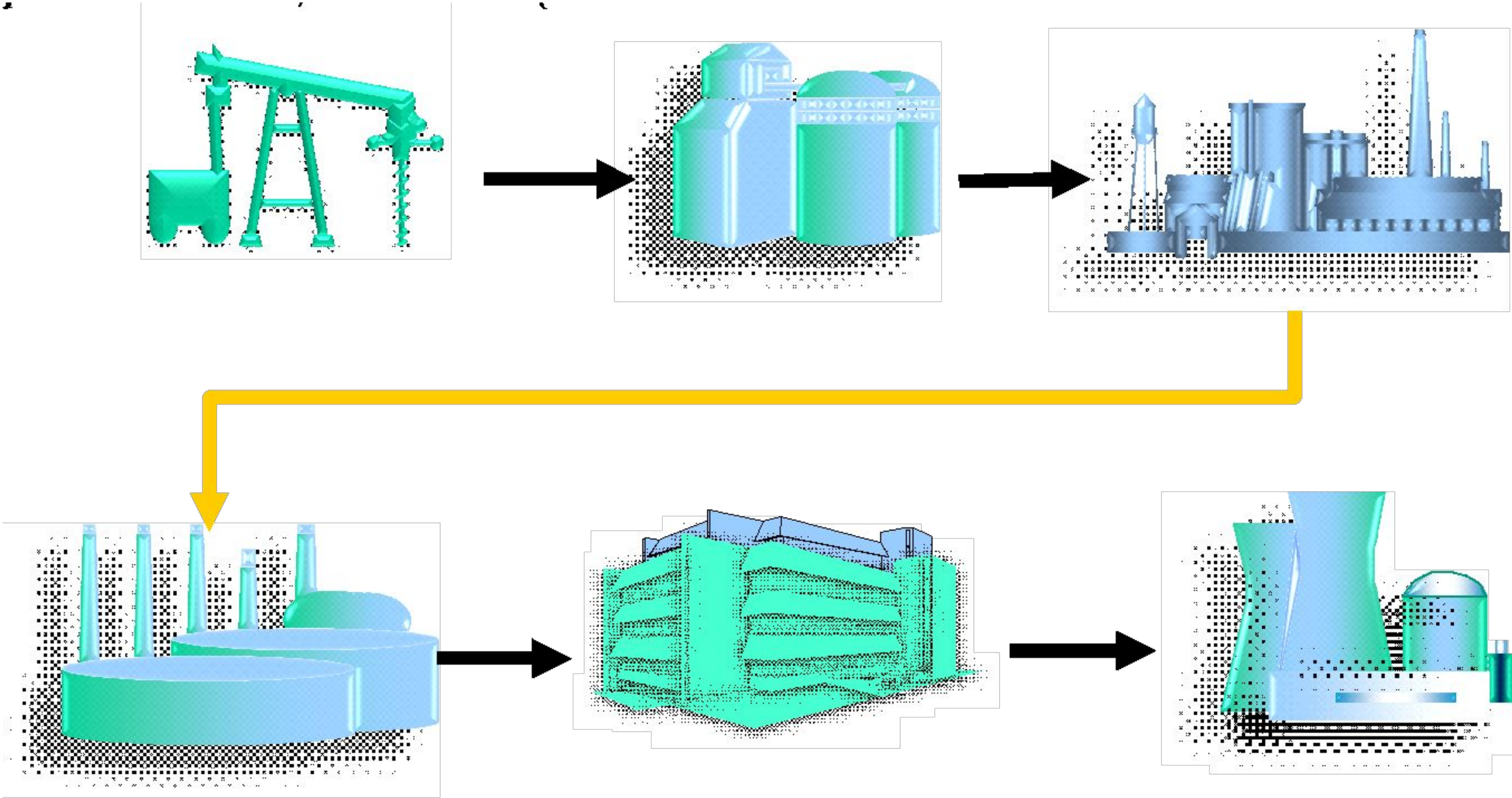
More info

282 tons of uranium equivalent (tU) produced
63% of the production was exported to nuclear power plants in France, Sweden, Finland and Belgium.

Accumulative production tU
9.069 tU
27,015 assemblies
15,081 PWR
11,934 BWR

First part of the nuclear fuel cycle

First part of the nuclear fuel cycle

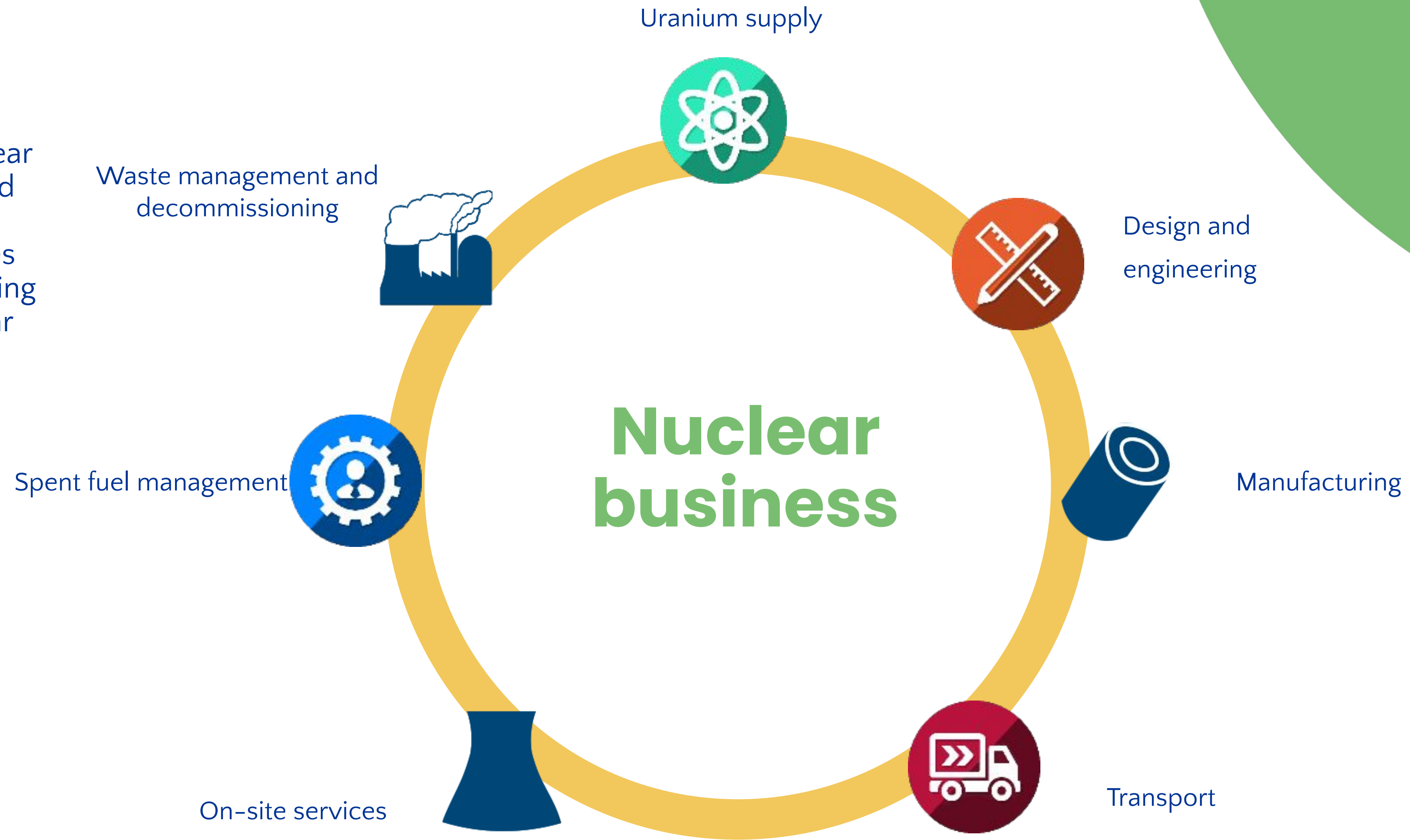


Nuclear field activities



Nuclear field activities

The activities in the nuclear field go from the Enriched UF6 procurement and supply to nuclear facilities decommissioning, covering all activities in the nuclear fuel cycle.

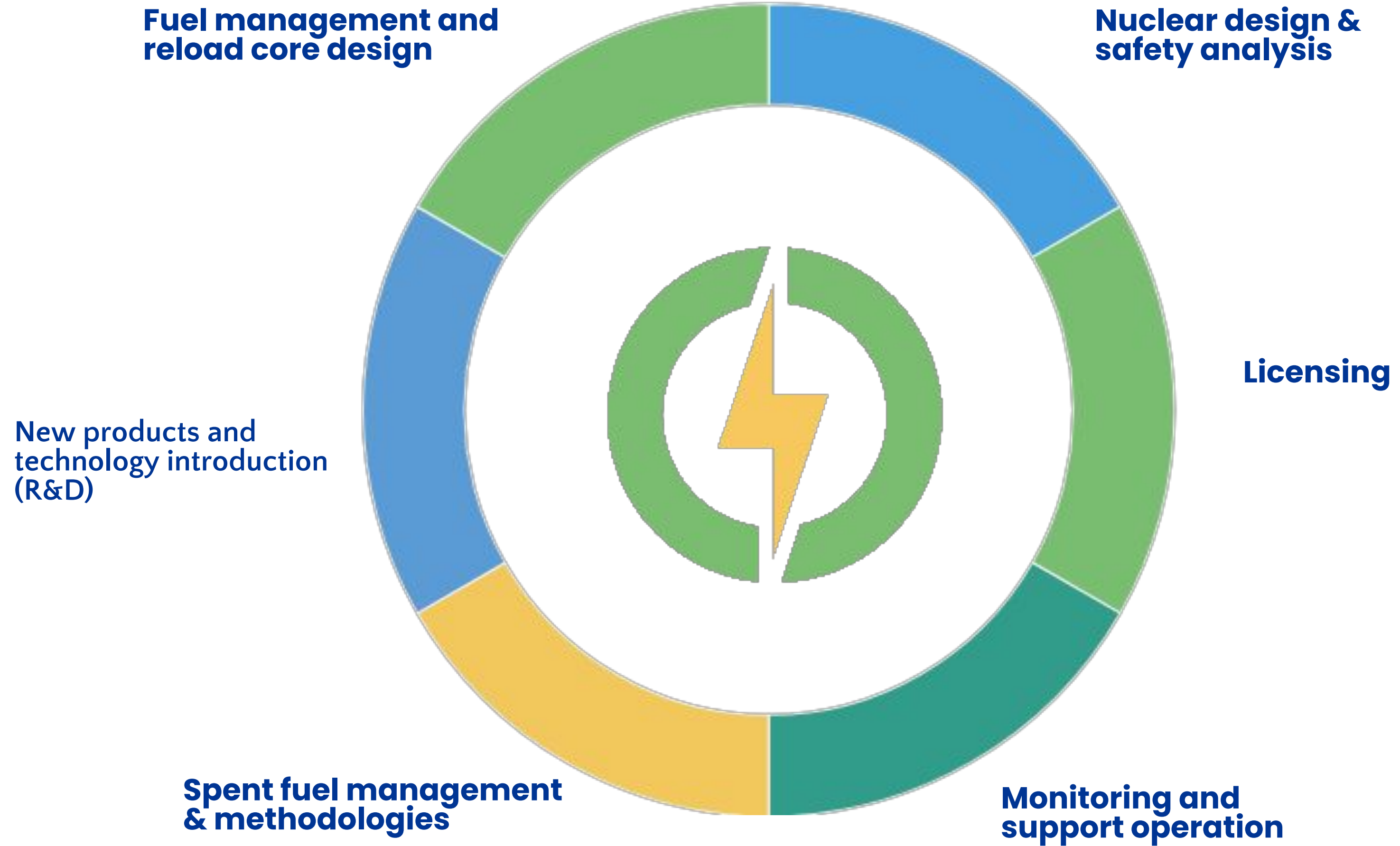


Engineering



Engineering services

Very wide experience in providing engineering services to European NPPs, covering new fuel introduction, fuel design and licensing, nuclear design, core Monitoring and spent fuel management.



On-site fuel services



On-site fuel services

ENUSA provides high added value on-site services.

ENUSA has developed and owns several characterization and inspection equipments to provide these services to NPPs.

- Fresh fuel handling
- Irradiated fuel and core components handling
- Leaking fuel inspection
- Fuel repair and reconstruction
- Fuel inspection and characterization
- High efficiency ultrasonic fuel cleaning
- Fuel assembly burnup characterization



Waste management and decommissioning



Waste management and decommissioning

1. Radiological characterization



1.1. Drone and detector system for lands and walls characterization



1.2. Drone and detector system for radiological surveillance.



1.3. SISCAREN-RBBA
Improved classification or declassification process.

Waste management and decommissioning

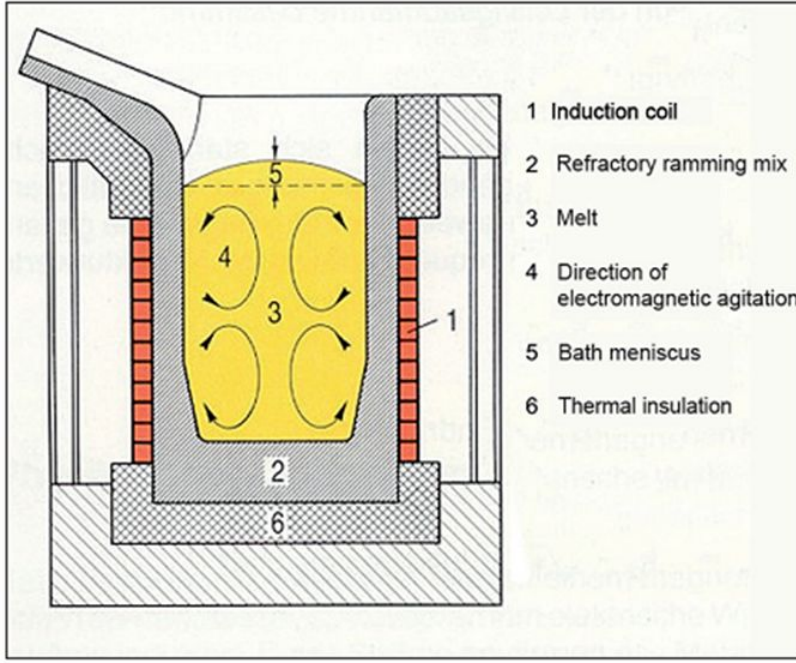
2. Waste management



2.1. Laser decontamination



2.2. IPRE
Portable facility for waste management



2.3. Melting furnace
Portable facility for metallic waste

Waste management and decommissioning

3. Centre of Technology and Equipment Maintenance (CTME)



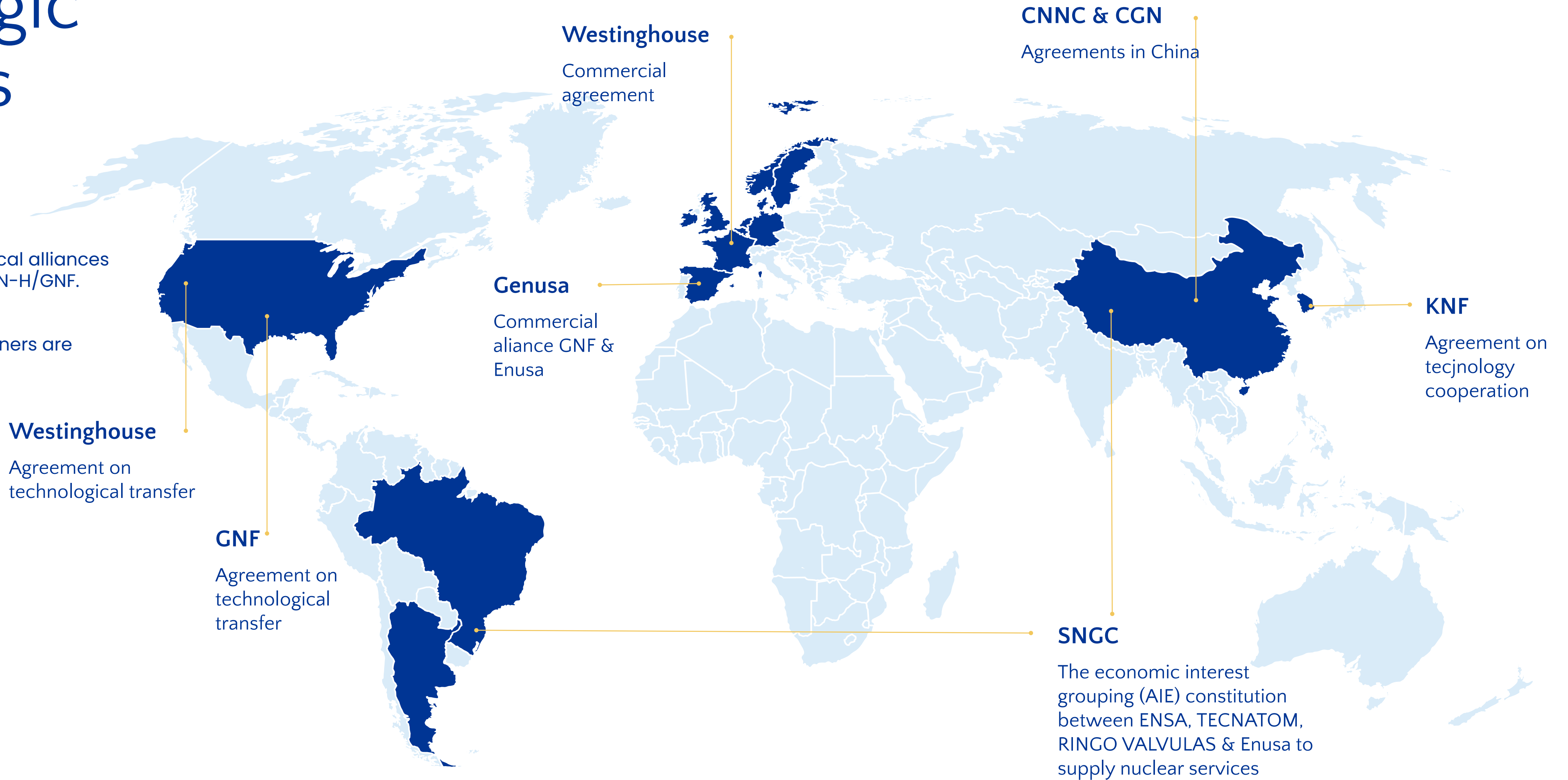
3.1. CTME

Aliances

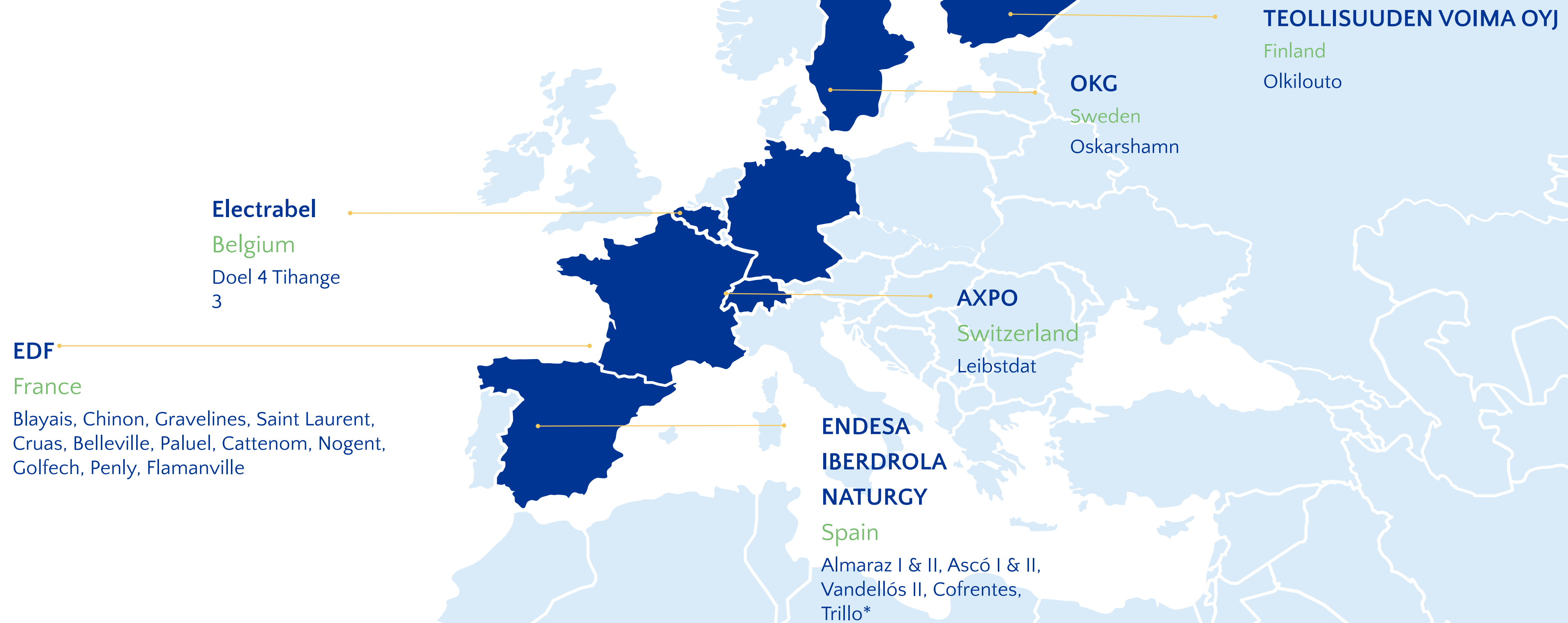
Technological & strategic alliances

Enusa A keeps technological alliances with Westinghouse and GN-H/GNF.

Some other potential partners are being explored.



European nuclear fuel customers



*Only fuel and uranium procurement services are supplied to Trillo nuclear power plant central and in 2016, eight demonstration fuel assemblies (LTAs) by EFC.

