



Security of supply for nuclear materials and services

Michael Hübel
Euratom Supply Agency
<https://euratom-supply.ec.europa.eu>

ESA security of supply recommendations (1)

1. Security of supply best practice



- Develop/implement robust *risk management framework*
- *Diversify supply chains at every stage of the fuel cycle*
- *long-term contracts with diversified suppliers* (geographic and economic diversification)

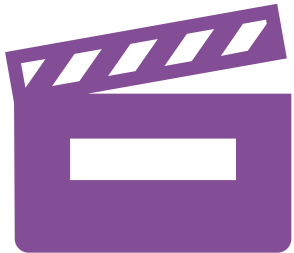
2. Address current vulnerabilities

- Take *crisis management measures*, including *stockpiling*
- *Prioritise supply diversification* (fuel and essential components)
- Contractual due diligence to *determine economic and mining origins, and availability*, particularly for short-term contracts


ESA security of supply recommendations (2)

3. Towards a stable long term supply chain

- *Define strategic and stable policy and clear technological environment at EU, Member State and utilities level*
- *Increase indigenous sources of supply across the supply chain;*
- Strategically plan supplies for new reactors and new technologies (SMRs/AMRs);
- Maintain and advance technology and skills



ESA Annual Report

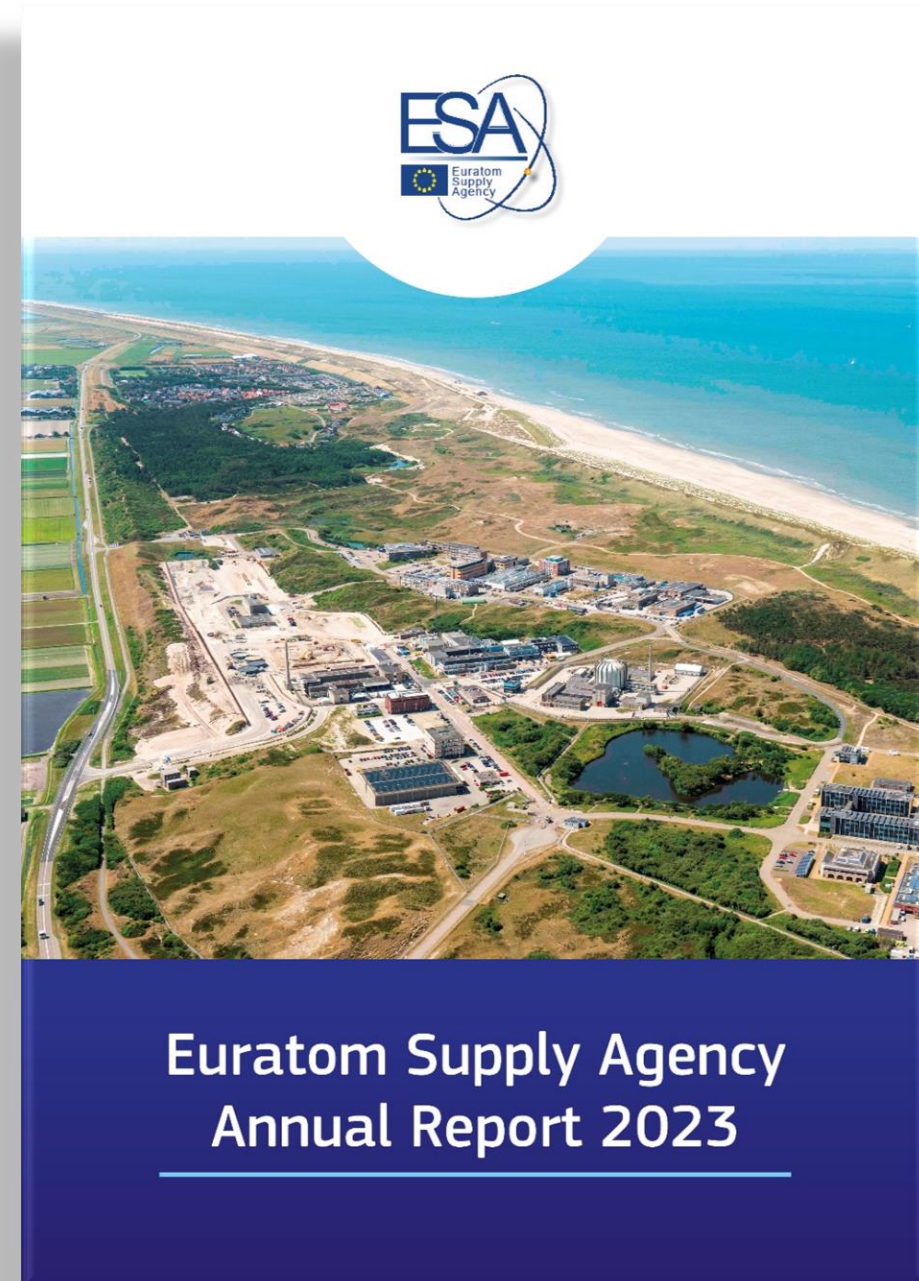
 ESA operations, nuclear fuel market & nuclear energy developments

 ESA findings & recommendations on supply and demand of nuclear fuels

 ESA diversification policy & security of supply

 Security of supply of medical radioisotopes




 ESA Work Programme





Euratom Supply Agency
1, rue Henri Schnadt
L-2920 Luxembourg

@ ESA-AAE@ec.europa.eu

 euratom-supply.ec.europa.eu
 [@euratom_supply](https://twitter.com/euratom_supply)
 [/euratom-supply-agency](https://www.linkedin.com/company/euratom-supply-agency)