

orano

European Energy Forum May 2021



An international leader



CO_2 -free electricity: **the energy** of the 21st century

The need to...

increase electricity generation capacity, to meet growing demand by 2050.

minimize impact on the environment, to protect resources by limiting the uses and by

recycling more and more used materials.

respond to the climate emergency to achieve carbon neutrality by 2050.

The European nuclear leadership benefits the EU's resilience

- Nuclear power is a condition for large deployment of renewables : i) to ensure a reliable electricity system, ii) to keep competitive electricity prices, iii) to reach climate objectives.
- Nuclear sector is a EU-based industry creating EU-based jobs.
- Development of required skills are key to maintain EU's technological leadership while the EU hosts all the facilities necessary for every step of the nuclear fuel cycle and is the most advanced region regarding the ultimate, safe disposal of radioactive waste.
- Strong assets of European industry on the Front End (Conversion and Enrichment markets).

A robust supply and a circular economy approach: strong assets for energy independence

- Diversified and abundant mining resources.
- Reprocessing-recycling technology contributes to the responsible and circular approach for waste management. For Orano, it means:
 - 10% of French nuclear electricity is produced from recycled fuels;
 - 10% of raw materials saved (900t): recycled plutonium;
 - 25% in 2025 (2 000t): recycled uranium and plutonium;
 - Up to 30% in the longer term (2 400t): recycled uranium and plutonium, multi-recycling in reactors of the current generation.



