

*new*cleo's projects for clean, safe and sustainable energy

April 2024

Our solution to the global energy supply challenge

- The world needs clean, sustainable, GHG-free, reliable, and abundant energy source to satisfy a steadily growing demand
- We believe that nuclear power has the capacity to satisfy these requirements today in a sustainable way

Our company

The project is the result of **decades of research**, building a new competitive standard in nuclear energy that quickly and efficiently addresses the main concerns of our industry today: **waste**, **safety** and **costs**

Our product: AMR (Gen-IV SMR LFR) and MOX

*new*cleo is working to design, build, and operate Generation IV Small Modular Lead-Cooled Fast Reactors using MOX fuel, with the objective of providing **safe**, **clean**, **economic** and practically **inexhaustible** nuclear energy





newcleo, a new, innovative player in nuclear energy



Reactor technology: Lead-cooled Fast Reactors

- use of fuel
- simplicity and compactness

Design: Small Modular Reactors

- Economies of scale \rightarrow economies of series

Fuel: MOX

SAFE

Patented lead-cooled technology benefits from natural radiation shield and passive safety features

CARBON-FREE

Zero-carbon baseload dispatchable generation to complement growing renewables

Unique solution of waste-asa-fuel, eliminating the need for further uranium mining and enrichment and **significantly** reducing long-lived waste



• Fast reactors enable recycling reprocessed spent fuel and allow for a more efficient

• Lead's intrinsic characteristics, together with our design provisions, enhance safety,

• Smaller than conventional nuclear reactors (<300 MWe) • Designed to be manufactured at a plant and transported to a site for installation

• *new*cleo is investing in MOX fuel manufacturing, which is obtained from byproducts of the current nuclear industry, enabling the fuel cycle closure

CIRCULAR

ECONOMIC

Affordable design benefitting from modularity, portability and standardisation

A fast growing company

*new*cleo was incorporated in September 2021 with €100 million, later in June 2022 raised an additional €300 million of seed funding, and has recently launched a capital raise of up to €1 billion.

The company counts on two acquisitions and around **700 employees**, growing up to 1000 by 2024, across Europe:













What sets us apart

WE WANT TO DEPLOY OUR REACTORS AND SELL ELECTRICITY

We aim at installing our fleet using only our own private funds, progressively consuming plutonium

VERY HIGH LEVEL OF PRIVATE FUNDING

- Founded in 2021 with 100 M€ followed in 2022 by a 300 M€ capital increase
- €40 million turnover in 2024

newcleo LEAD-COOLED FAST SMALL MODULAR REACTORS

Lead features enable higher efficiency and improved intrinsic safety. Our simple and compact design minimises costs and deployment time

MOX

Using as fuel what today goes to *waste* (Pu, depleted U), reducing the high-level nuclear waste volume, reducing uranium mining and boosting energy independence



The future belongs to those who have the energy to imagine it. And build it.

