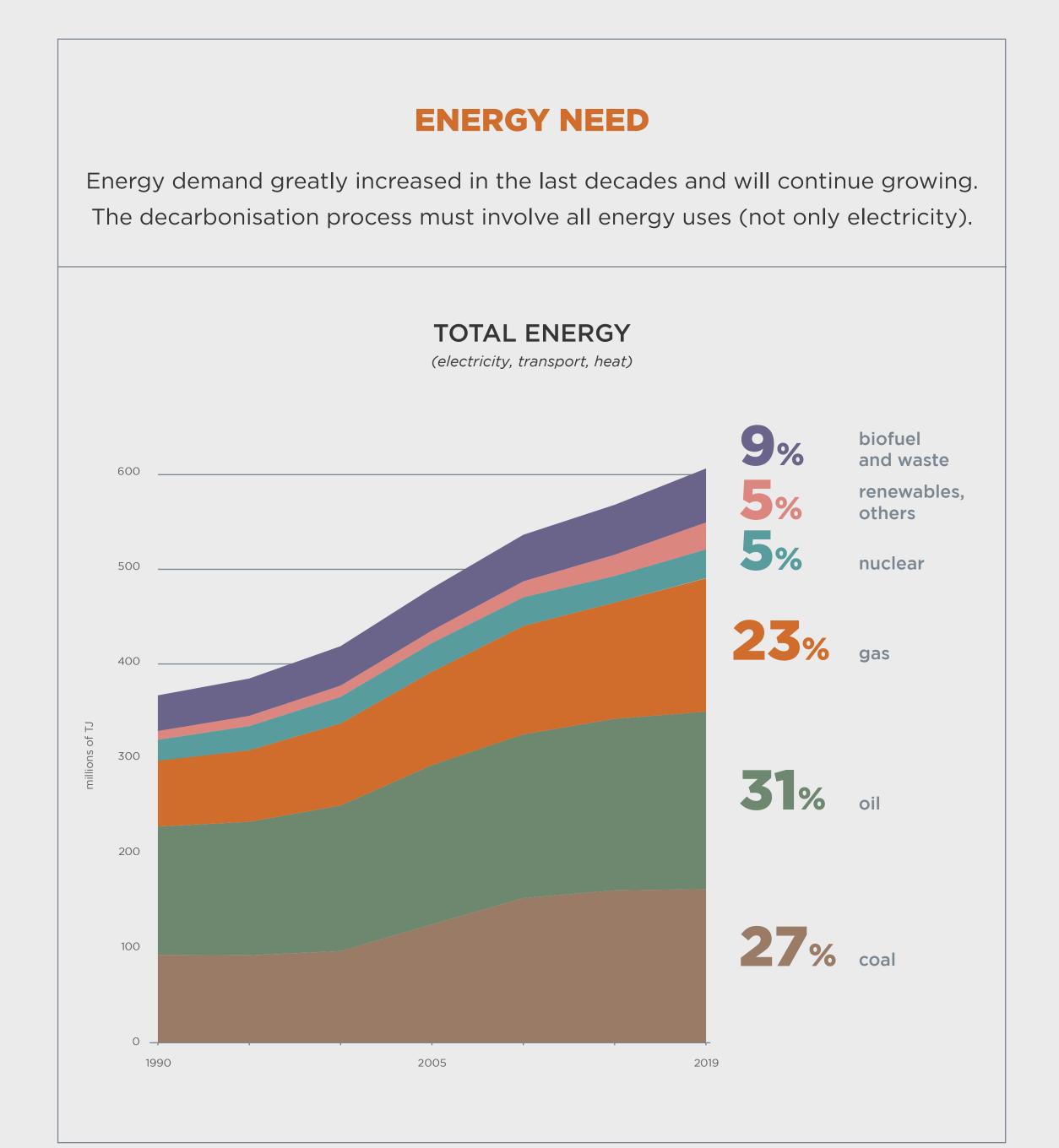


## An innovative nuclear energy company

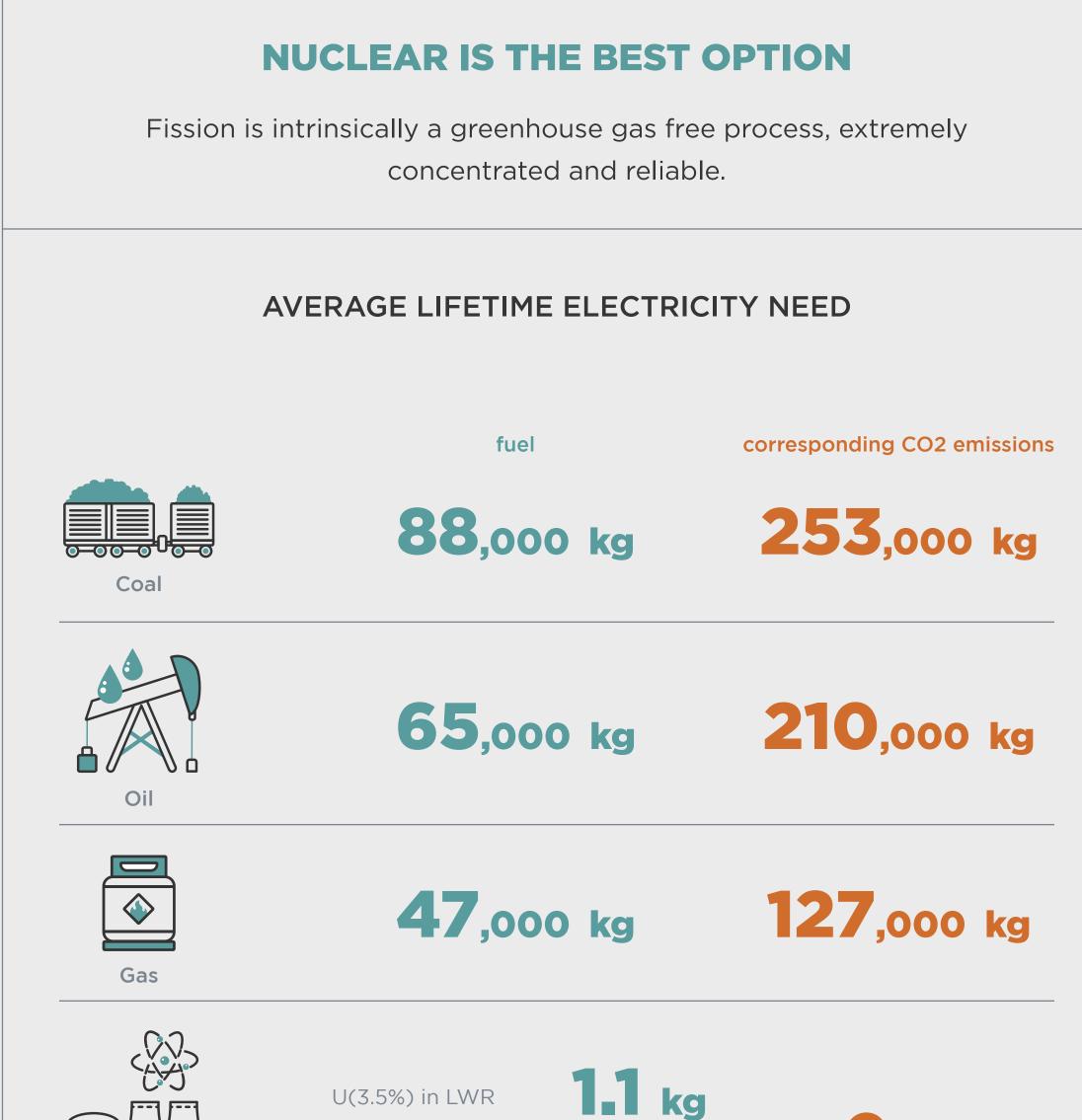
The future of sustainable energy is clean, safe and virtually inexhaustible

### THE CHALLENGE

The world is facing a turning point: meeting its growing energy demands, rapidly reaching net zero emissions and reducing the environmental impact of power production. The current energy source mix is not sustainable.



[rework of IEA: Total energy supply]



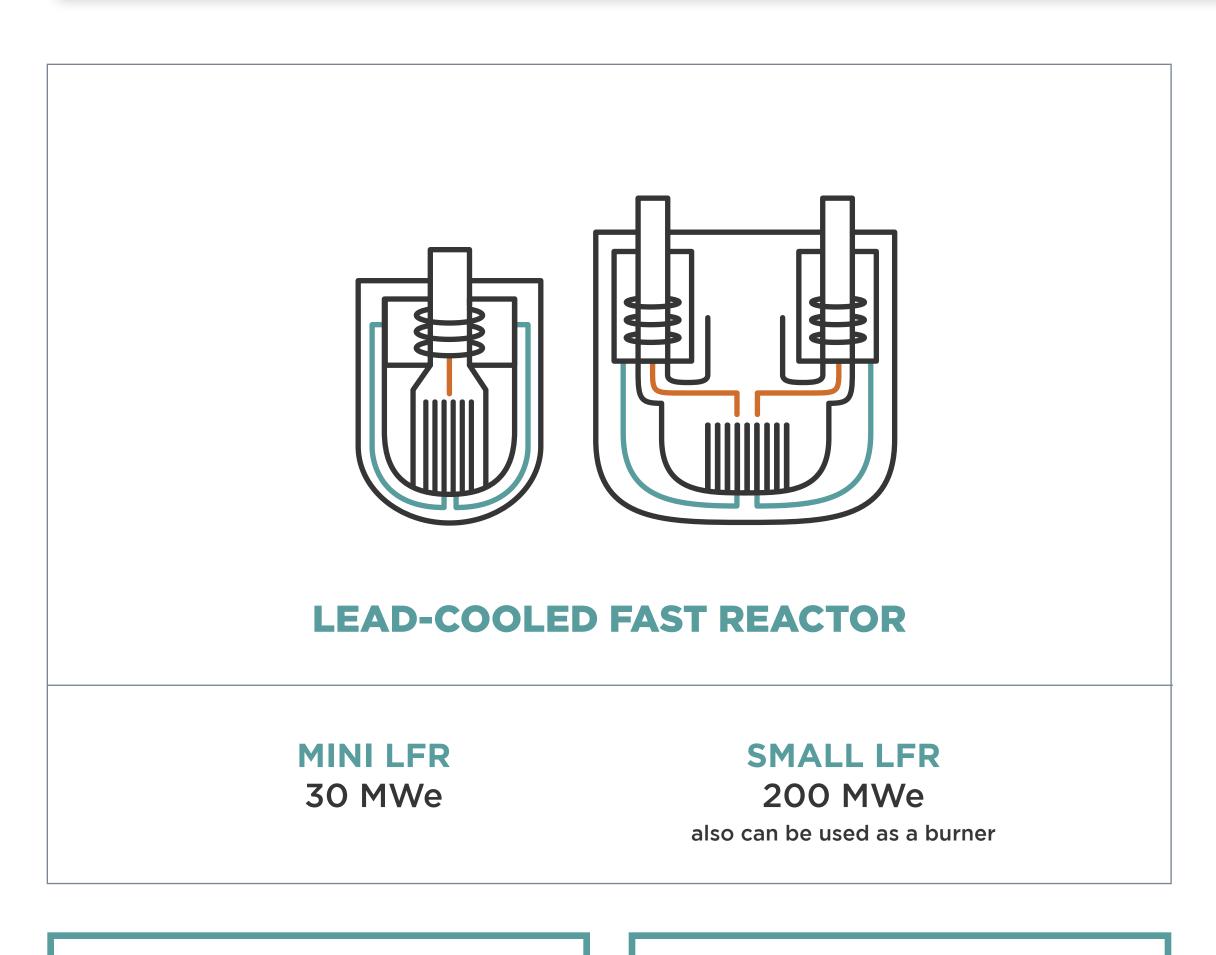
[rework of IAEA: Nuclear Energy compared, 2021]

MOX in LFR

## **OUR SOLUTION**

Gen-IV reactors: an even better nuclear energy production

newcleo is building the next generation of nuclear energy production that is safe, clean and sustainable. We are working on an innovative combination of existing technologies to innovate the nuclear sector, operating intrinsically safe reactors and dramatically reducing existing and future nuclear waste.



## **GEN-IV SMR**

most mature technology, simpler design, versatile commercial use

## USING MOX,

use of spent fuel (plutonium and minor actinides)

NO MINING

## LEAD COOLANT

enhanced passive safety and higher thermal efficiency

**KNOW-HOW** 14 international patents and large team experience

# **CLOSING THE FUEL CYCLE** Using as fuel existing waste

## MOX FUEL MANUFACTURING

extracting energy from the current nuclear industry waste in developed countries, supporting energy independence

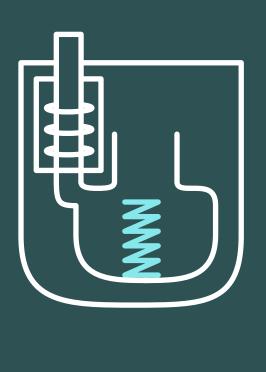
## REDUCED RADIOTOXICITY

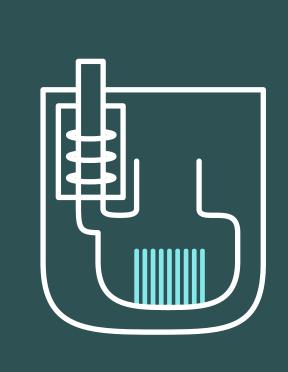
drastically reduced amount of minor actinides produced

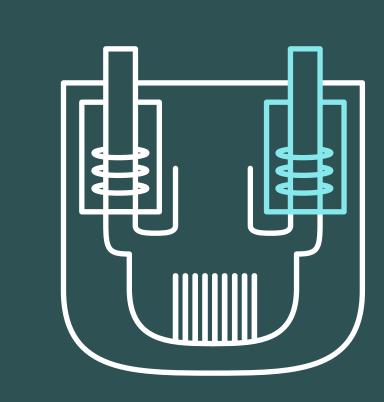
## **BETTER USE OF FUEL**

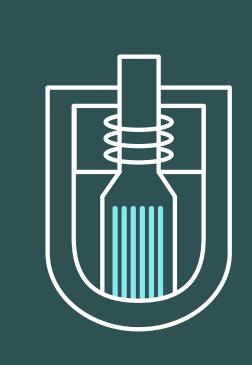
More efficient fuel exploitation thanks to fast neutrons; possibility to use various fuel types, including reprocessed spent fuel (plutonium/minor actinides) from existing plants. Significantly limits need to mine for new fuel. Natural reduction of high-level waste, hence less volume to be disposed in a geological repository.

## Delivering decarbonised power at scale: **OUR FAST-PACED PLAN**









2026 **PRECURSOR** non-nuclear industrial prototype

2030 **AS-30** 30 MWe nuclear test reactor and demonstrator

2032 **AS-200** 200 MWe First-Of-A-Kind (FOAK) reactor

2032 **TL-30** 30 MWe nuclear battery, also for maritime use

