

athlos energy

THE GREEK NUCLEAR INITIATIVE

Nuclear renaissance ***An opportunity for innovation***

Dr. Dionysios Chionis
Athlos Energy founding partner

Nuclear energy in short...



**Energy security
& independence**



**No greenhouse
emissions**



**Geopolitical
relations**



Profits for industry,
state taxes for 60+ years



**Jobs & local
economy upgrade**



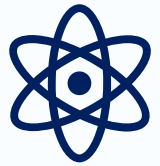
Nuclear industry status



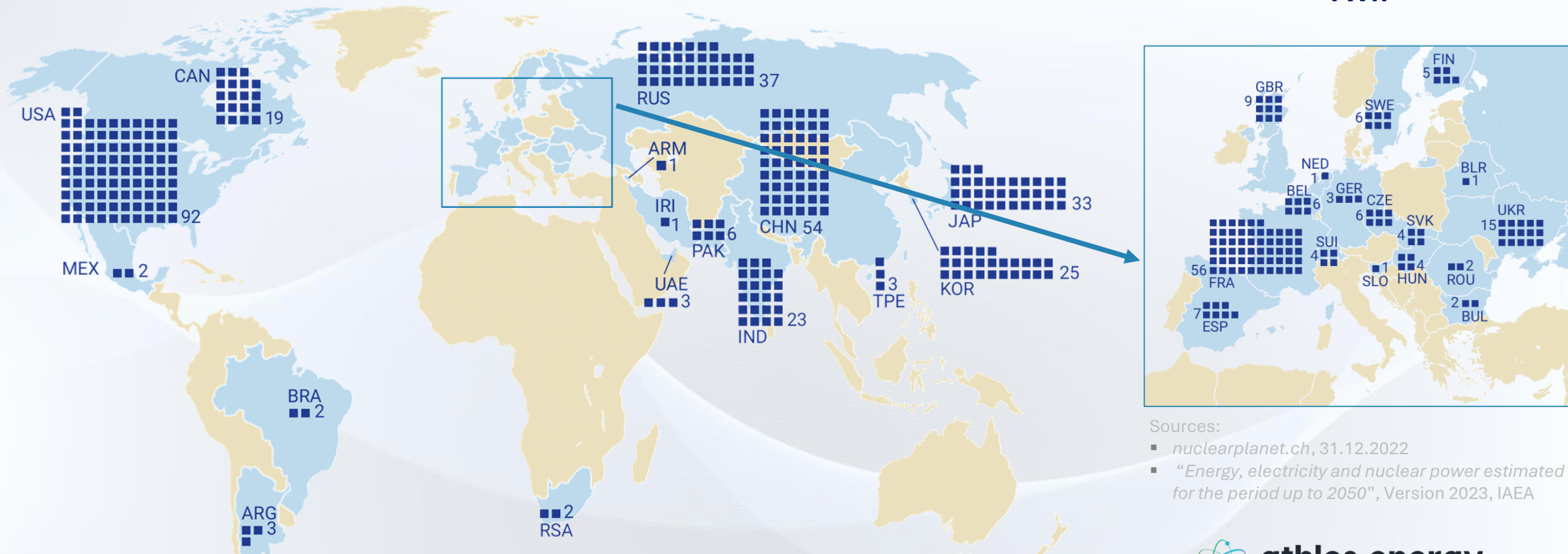
437
reactors



2'602
TWh



9.1%



Sources:

- nuclearplanet.ch, 31.12.2022
- "Energy, electricity and nuclear power estimated for the period up to 2050", Version 2023, IAEA



The new trend: Small Modular Reactors



further **improved**
safety features

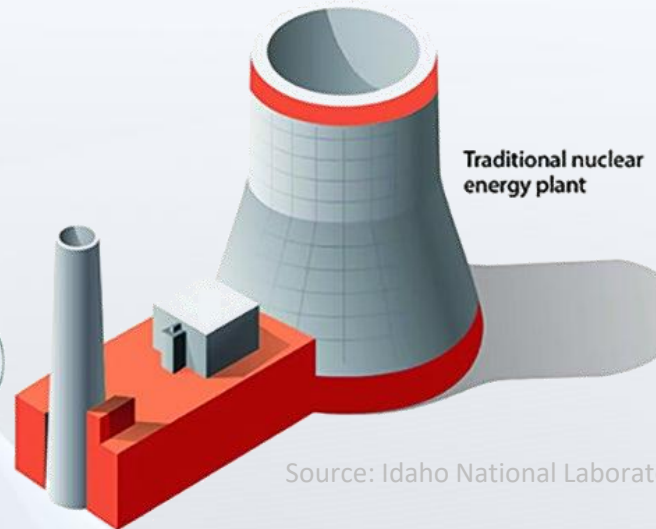
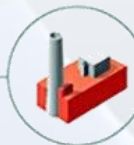


reduced
construction **cost**



reduced
construction **time**

Small modular reactor



Traditional nuclear energy plant

Source: Idaho National Laboratory, USA



modularity for higher
installed capacity



smaller installed
capacity up to 300MW



A new market full of opportunities



68

designs

18

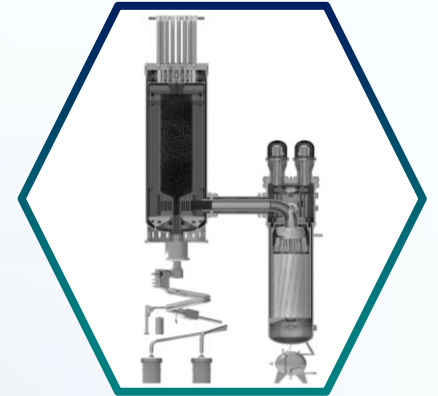
countries

**scaled-down
conventional
reactors**



Source: <https://rolls-royce-smr.com/>

**high temperature
designs**



Source: <https://x-energy.com>



**nuclear
maritime**

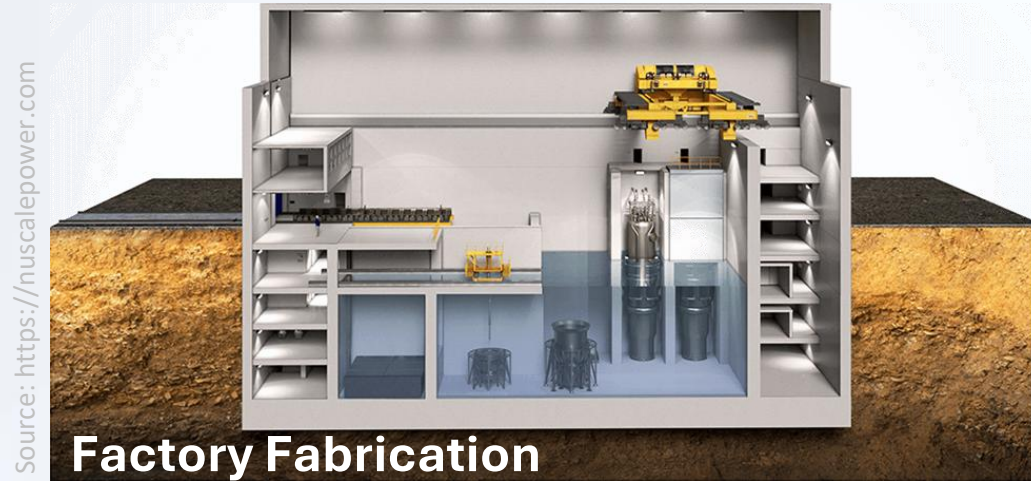
Source: <https://corepower.energy/>



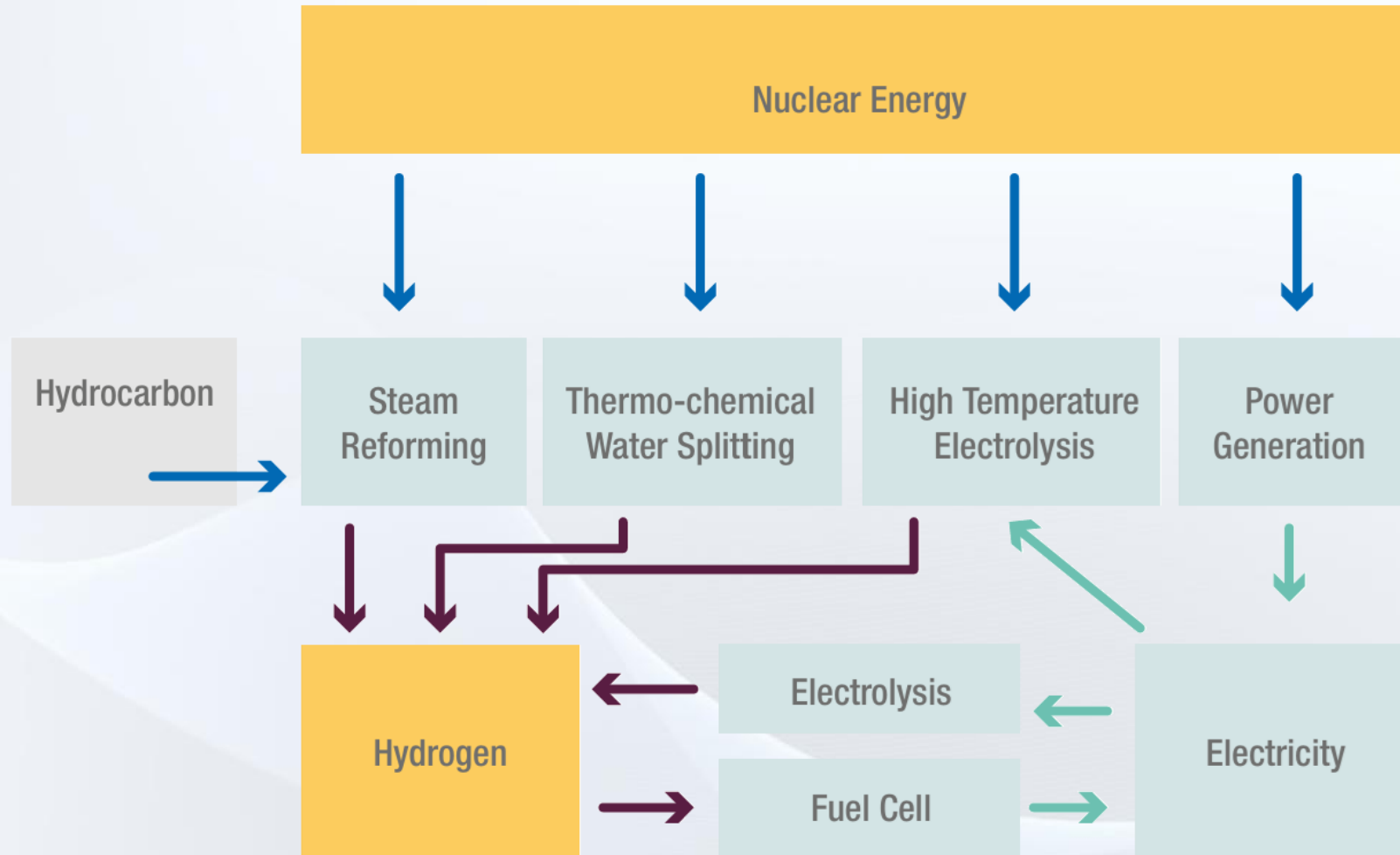
**advanced
designs**

Source: <https://newcleo.com>

SMR recent developments



SMRs for Non-Power Applications



Source: <https://iaea.org>

Addressing an actual **need**
by creating a
new market opportunity



athlos energy

THE GREEK NUCLEAR INITIATIVE

Dr. Dionysis Chionis



Athlos Energy Founding partners



Dr. Stathis Vlassopoulos



Athlos Energy

Mission

Provide a realistic and pragmatic **alternative** to achieve the ambitious Greek energy and climate goals for 2050 via **Nuclear Energy**



Vision

Development & execution of the first Greek **Nuclear Program**

Nuclear opportunities for Greece

- ✓ Coal to Nuclear transition for base load
- ✓ Electrification of remote communities (islands)
- ✓ Data centre support
- ✓ Maritime (floating or propulsion)
- ✓ Big industry support
- ✓ Non-electric applications
(pink hydrogen, district heating, etc.)





athlos energy

THE GREEK NUCLEAR INITIATIVE

Contact details



<https://athlos.energy/>



dionysios.chionis@athlos.energy
efstathios.vlassopoulos@athlos.energy



<https://www.linkedin.com/company/athlos-energy>