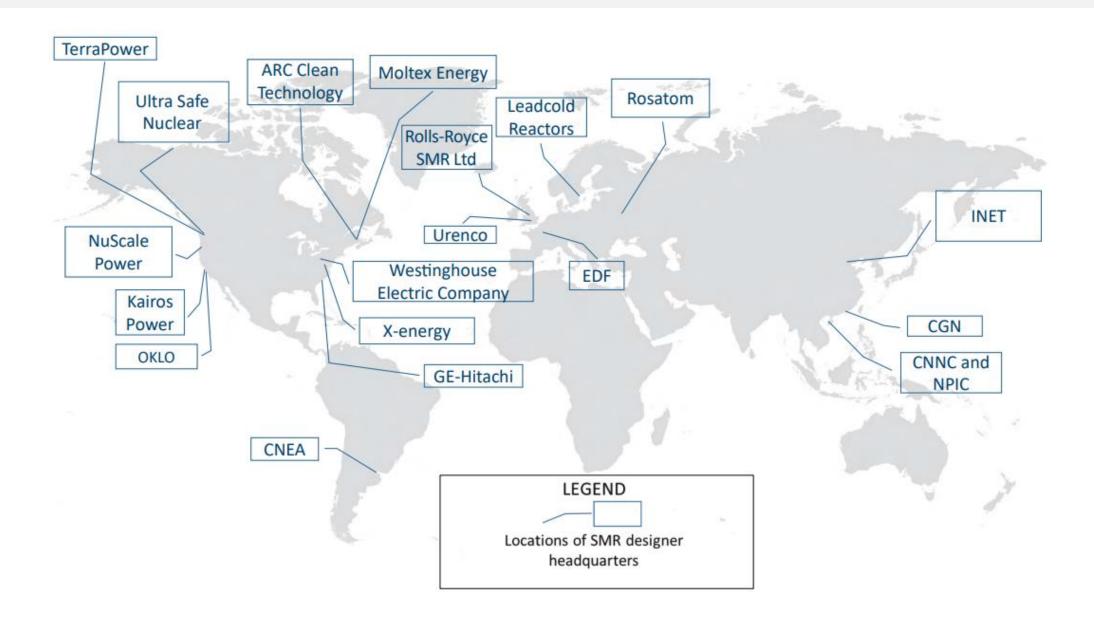
BNLA SMR Conference 22 Sept 2023

International Persectives Introduction

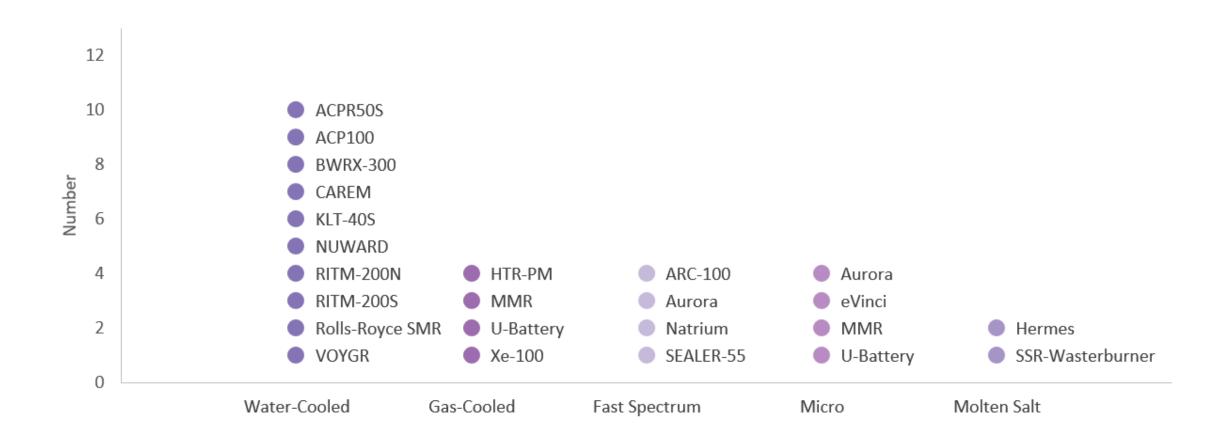
Marc Deffrennes



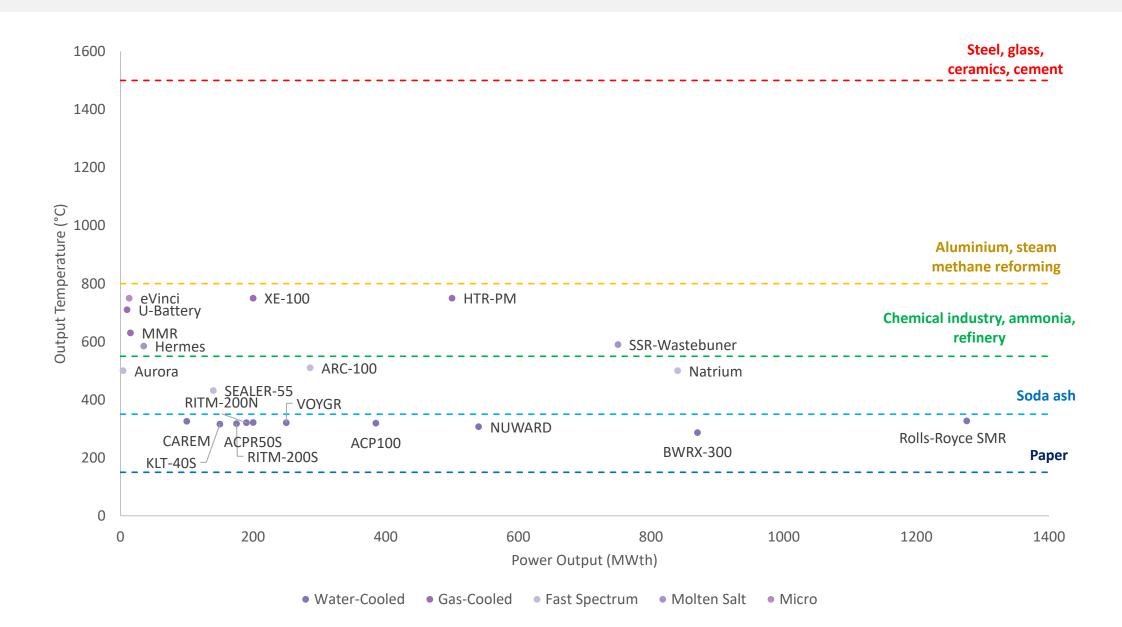
SMRs under development around the world



Reactor concepts

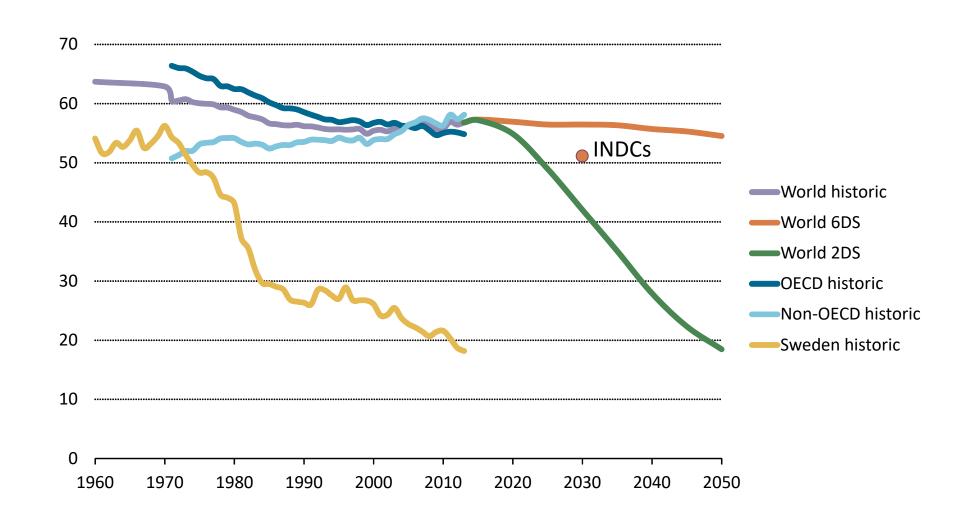


Sizes and temperatures



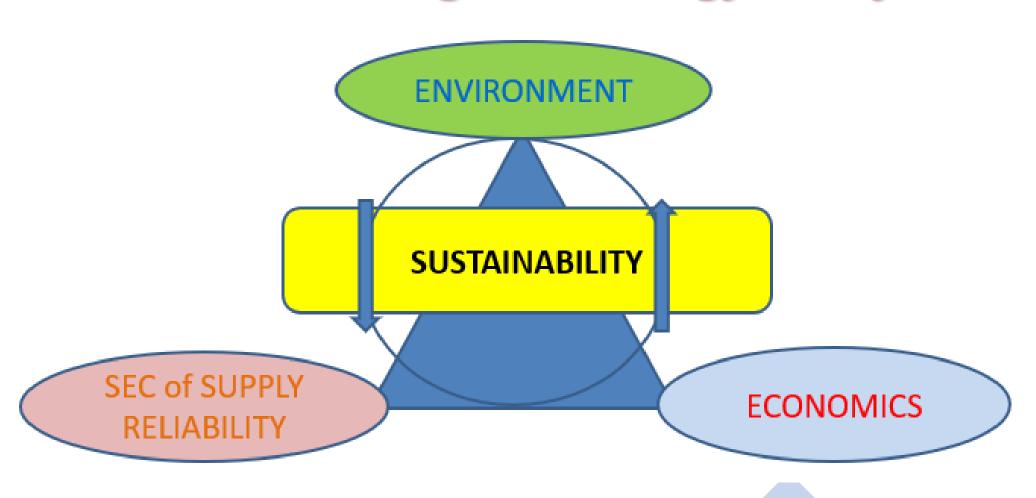
2°C requires a drop in the carbon intensity of primary energy (tco2/GJ)



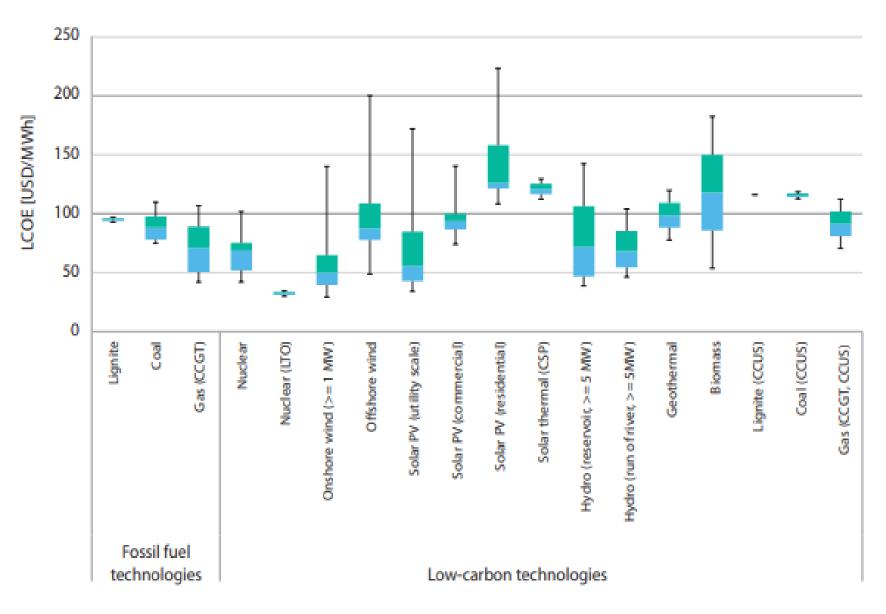


...which has been stable on a global level over the last 50 years.

Beyond CO2... Global Challenges A better Triangle for Energy Policy

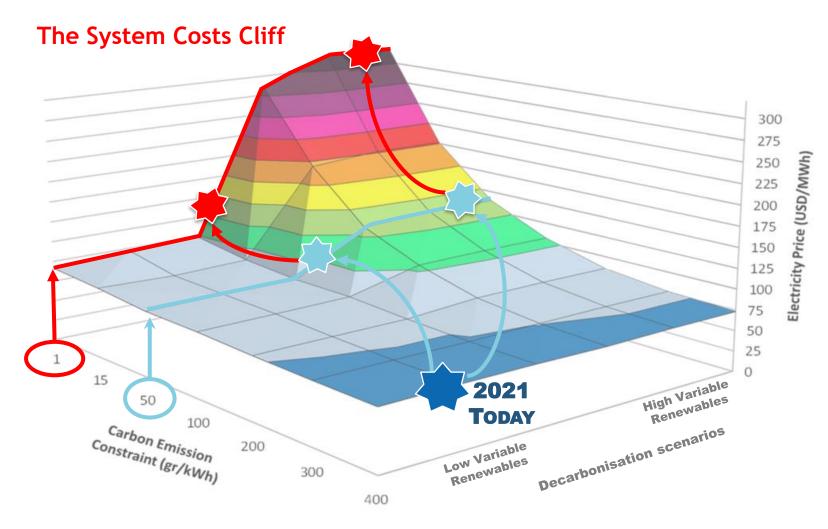


Levelized Cost of Electricity LCOE IEA NEA PCGE 2020



Note: Values at 7% discount rate. Box plots indicate maximum, median and minimum values. The boxes indicate the central 50% of values, i.e. the second and the third quartile.

Charting a Path to Net-Zero Electricity

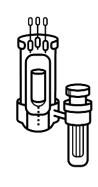


Source: NEA

The Full Potential of Nuclear Energy to Contribute to Emissions Reductions











Long Term Operation

Large Gen-III Reactors Small Modular Reactors

Non-Electrical applications

Complementary nuclear technologies and applications

What About SMRs in this context ???

- International Perspectives
 - Nuclear Energy Agency OECD SMR Dashboard
 - International Atomic Energy Agency SMRs in nuclear role
 - European Commission SMR Research
 - Nucleareurope EU SMR PrePartnership
 - UK Supply Industry
- Technologies
- Legal aspects
- Economics and Financing