

Micro Lead-cooled Reactor: MicroURANUS

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What and Why: Micro Nuclear Reactor (MNR)

SMR (Small Modular Reactor):

Power < 300 MWe

MNR (Micro Nuclear Reactor):

Power < 30 MWe (UK)

✓ Full-Life & Transportable

✓ Non-Water: Ultra-Safe

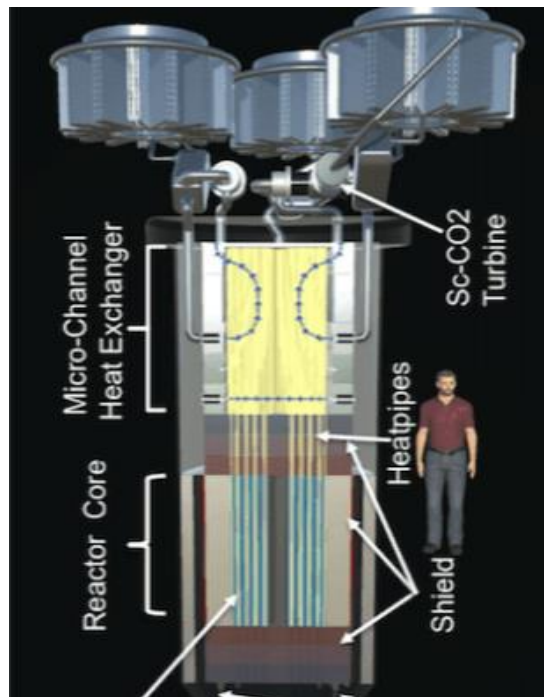
LANL, Westinghouse, NuScale, etc.,

NUCLEAR ENERGY INSIDER 

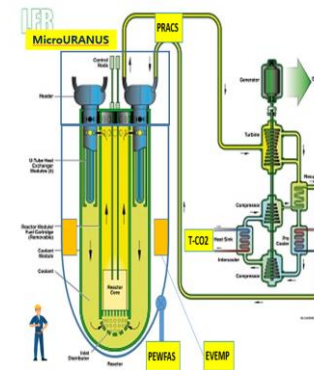
Home New Build Supply Chain Small Modular Reactors Operations & Maintenance D

NuScale develops new micro reactor designs in fresh SMR push

Apr 17, 2019



Proliferation



Economy

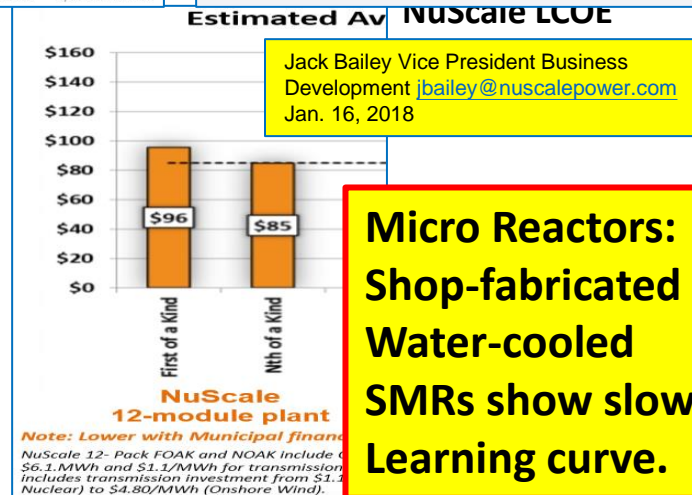
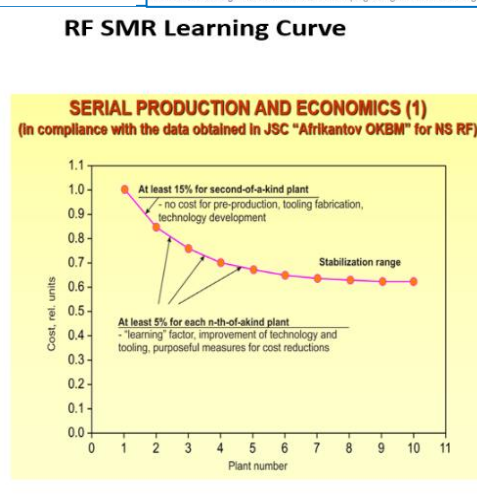
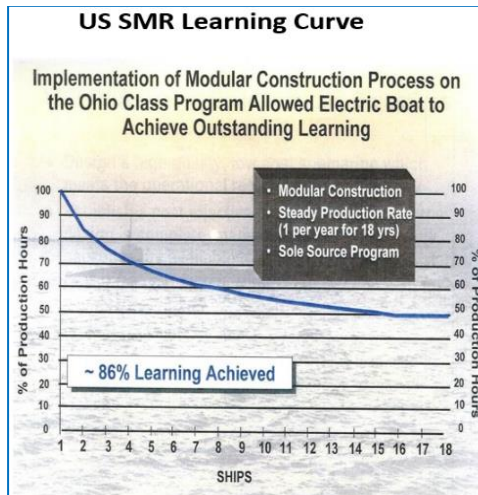
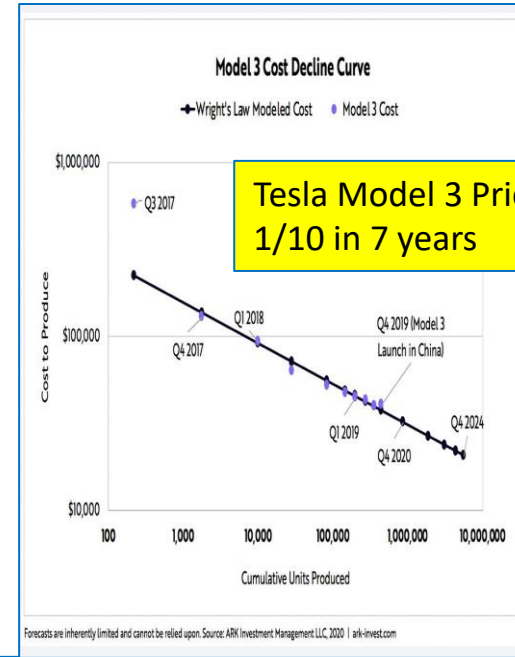
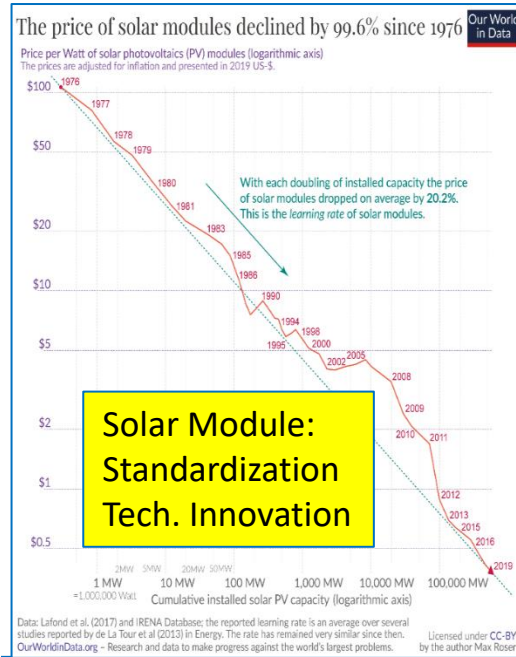
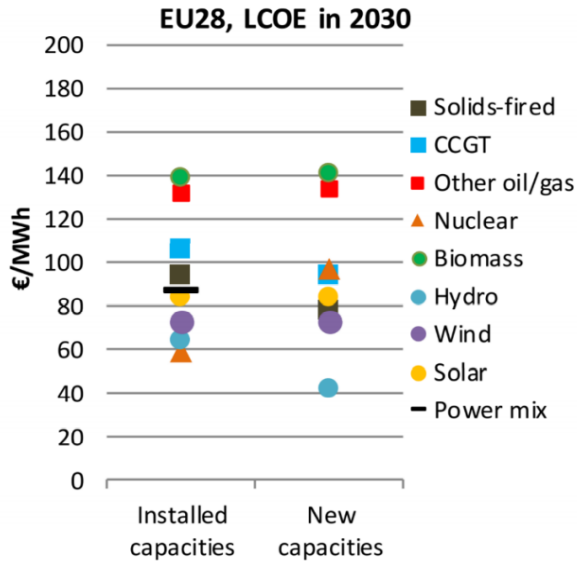
Environment

Climate & Air

Accident

Micro Nuclear Reactor: Economies of Innovation

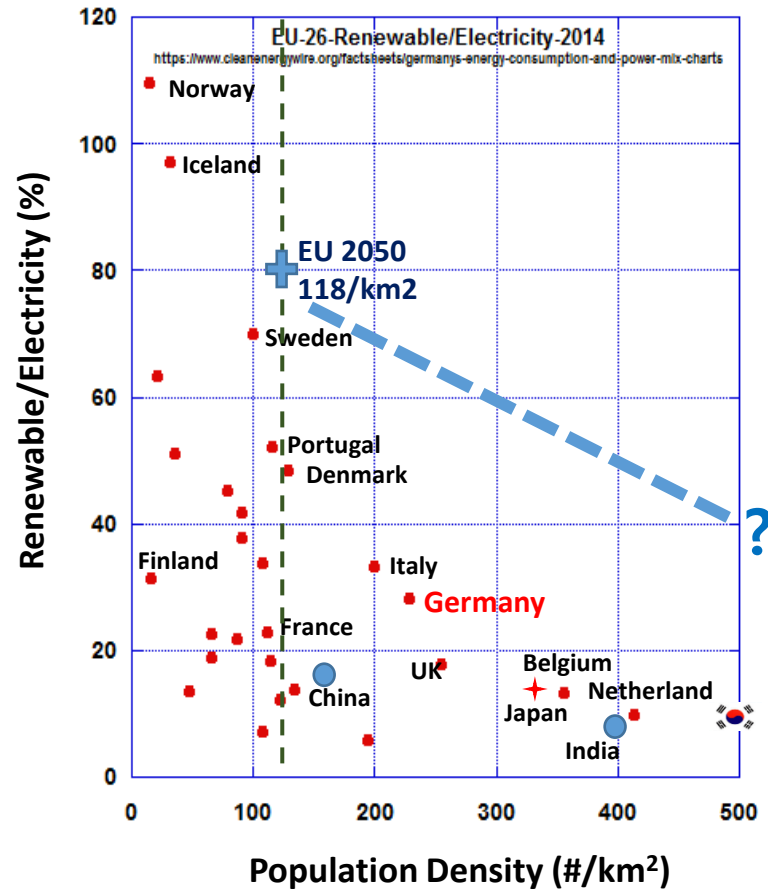
Figure 3.2-5. Levelised cost of electricity in the EU²⁵



Nuclear would enable Net-Zero Emission in ROK

Densely-populated Regions with Growing Industries need Reliable Power with Safety and Affordability

World nuclear power **~3X up by 2050**, Safety, Fuel supply, Waste, Safeguards and Symbiosis with Renewable Energy



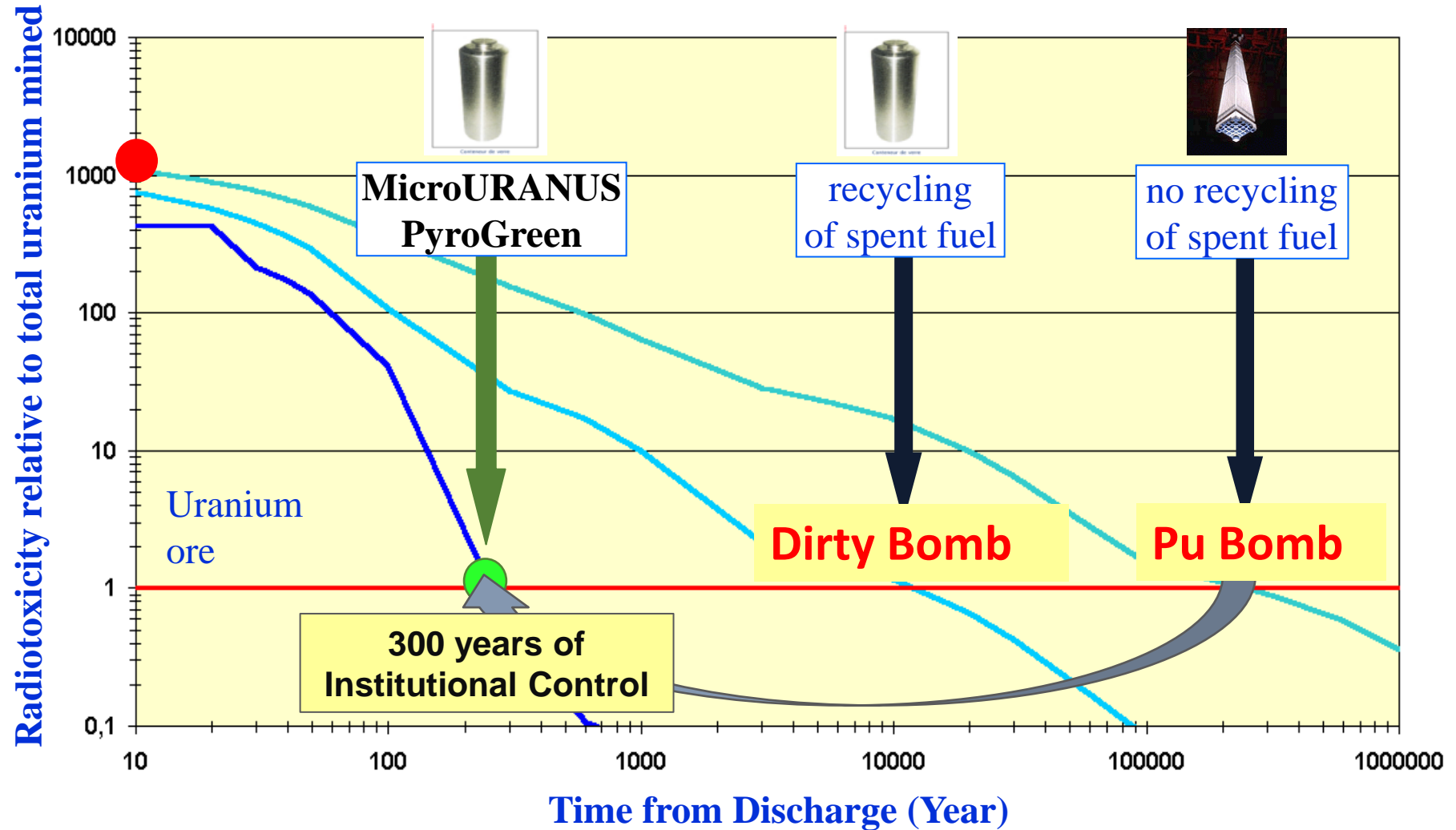
PROS AND CONS of nuclear energy

PROS	CONS
Carbon-free electricity	Uranium is technically non-renewable
Small land footprint	High upfront costs
Reliable baseload electricity source	Nuclear waste

<https://www.energysage.com/about-clean-energy/nuclear-energy/pros-and-cons-nuclear-energy/>

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Sustainable with **No High-Level Wastes**



MicroURANUS Life Cycle

