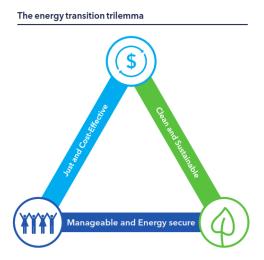






SUSTAINABLE GALS DEVELOPMENT GALS



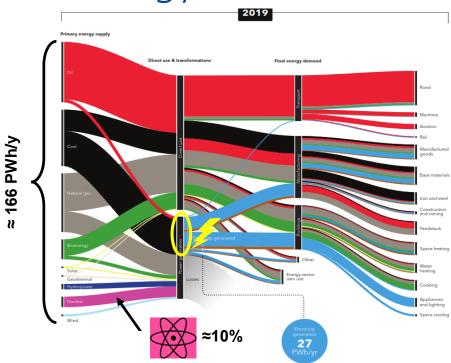


Ensure access to affordable, reliable, sustainable and modern energy for all





Energy outlook & transition

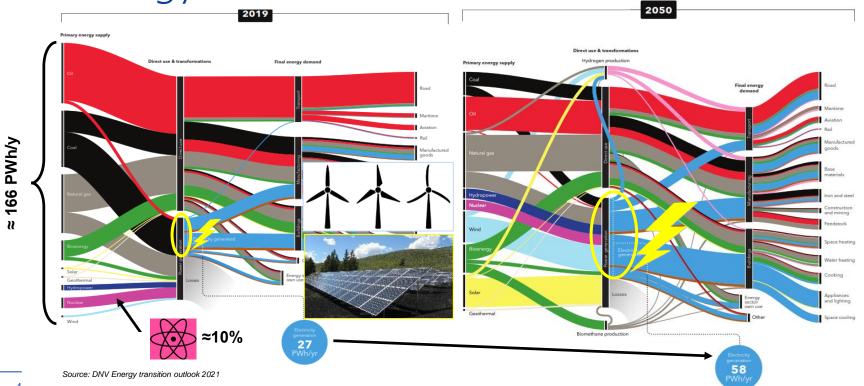


Source: DNV Energy transition outlook 2021





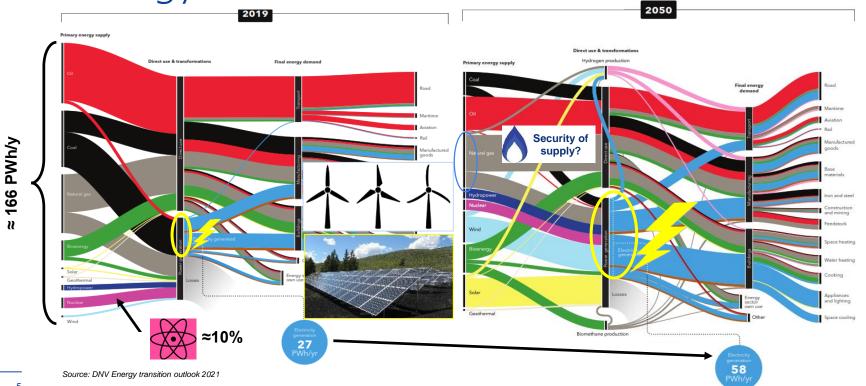
Energy outlook & transition







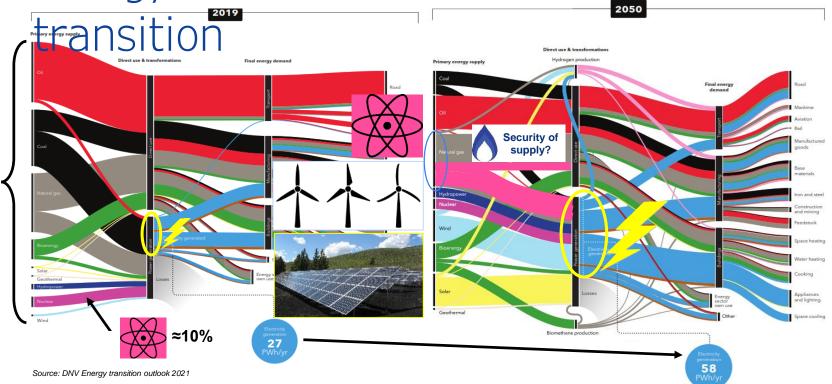
Energy outlook & transition







Energy outlook &

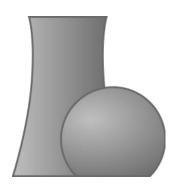


166 PWh/y





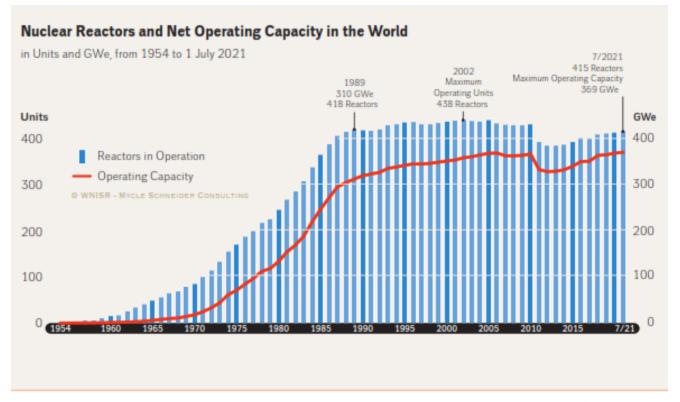
Contribution of Nuclear Power











Sources: WNISR, with IAEA-PRIS, 2021



Innovations in the industry

- LTO 60 80 program development
 - Design Certification / GDA processes
- Modular construction techniques
- (Small) Modular designs

- Increased power output
- Passive systems & state of the art safety concepts
- Digitalization of MMI
- Accident Tollerant Fuel
 - Additive

manufacturing

Advanced Numerical Modelling & Simulations



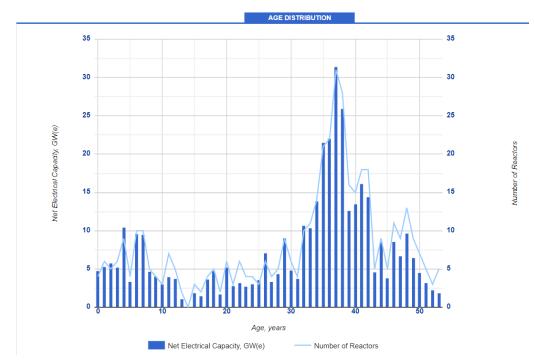
However...





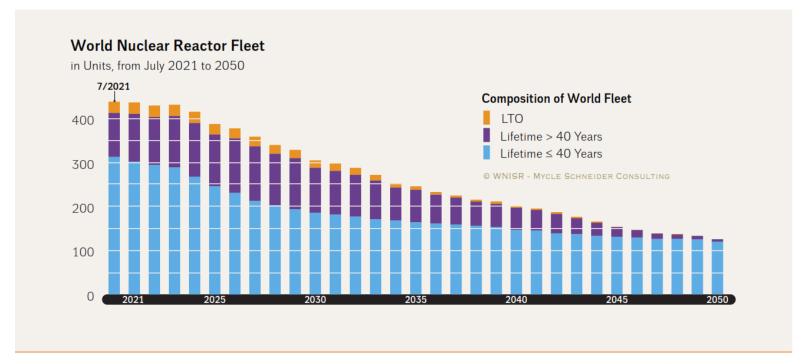
Age of current fleet of reactors

Age Distribution



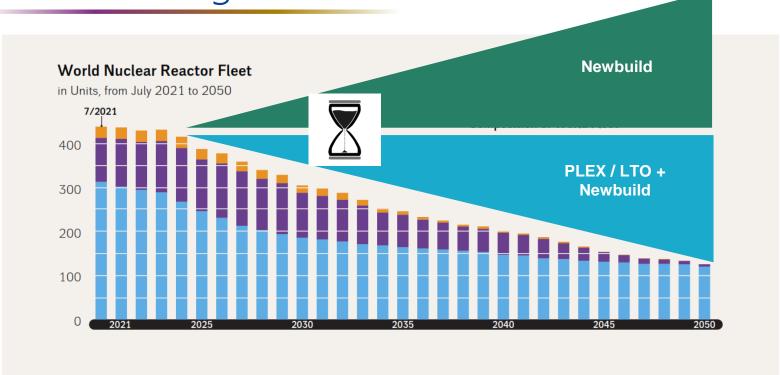


Projection of ageing NPPs





The challenge





Paradigm shift

Initial topic: What is the potential value of nuclear technology?

Current challenge:









Why are we bringing you all together?



ENERGY



HEALTH



INNOVATION



SOCIAL RELEVANCE

We believe that advanced nuclear solutions will create future breakthroughs in healthcare and energy. It is our responsibility to ensure safety of the entire nuclear lifecycle. We advance nuclear solutions in the interest of people and planet.



Common challenges...or opportunities?

LTO



- Safety demonstration
- Obsolecence
- Maintaining qualified and motivated personnel
- Ageing of components
- Scoping

Newbuild



- Licensing
- Financing
- Building competent workforce
- Ageing mgt
- Construction mgt

• ..

Advanced

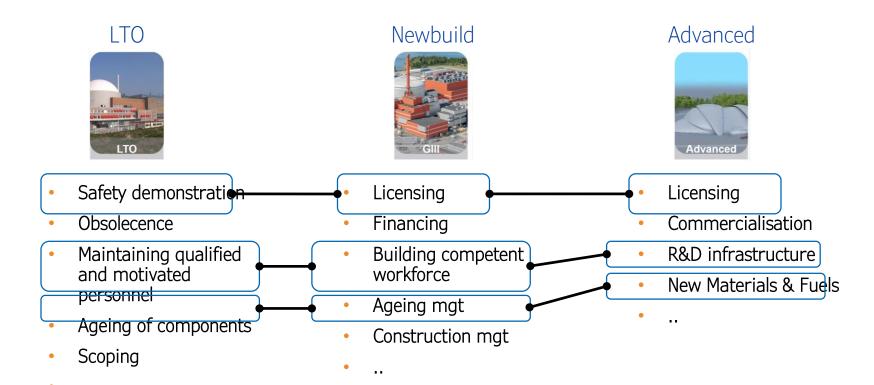


- Licensing
- Commercialisation
- R&D infrastructure
- New Materials & Fuels

.



Common challenges...or opportunities?





Let's align to accelerate nuclear innovations!



