

Panel discussion - The potential of SMRs

SMR:

- **S**mall / **M**edium size **R**eactor
- **S**mall **M**odular **R**eactor
- **S**exy **M**odular **R**eactor

SMRs are nuclear reactors, based on nuclear fission, whose operation is CO₂-free

Panel discussion - The potential of SMRs

	Large PWR	SMR
Power	1200 – 1700 MWe	< 300 MWe (classic definition)
Specific investment cost [€/kWe]	Lower	Higher (target: the same)
Total investment	6 – 10 bln €/unit	Lower
Construction time	8 – 10 years (...)	2 – 4 years (target)
Cost of capital	High	Lower
Land required	Larger	Smaller
Units' arrangement	Separated	Modular , integrated



EPR units, Taishan NPP, China (Wiki, EDF Energy)



Teplator SMR concept (Source: UWB + CTU , CZ)