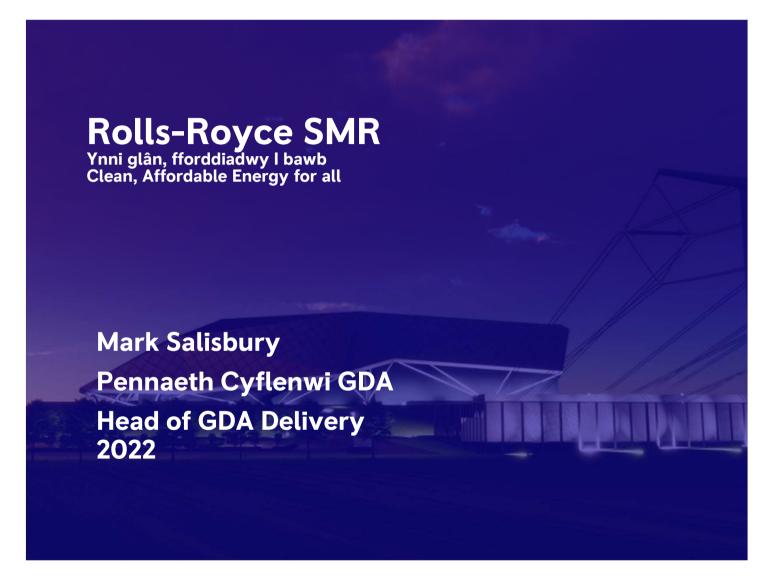


This information is provided by Rolls-Royce SMR in good faith based upon the latest information available to it; no warranty or representation is given; no contractual or other binding commitment is implied

Department for Business, Energy & Industrial Strategy

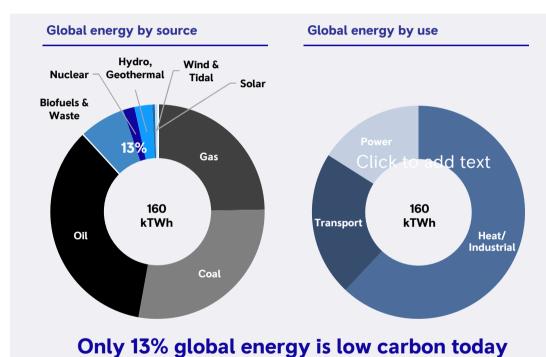


Non-Confidential © 2022 Rolls-Royce SMR | Not Subject to Export Control





Tomorrow's energy market will look fundamentally different – and will need new solutions that can deliver low carbon power 24-7



Key attributes	Rolls-Royce SMR
Design life	60 years
Scalability	1 unit = 470MWe Multiple units per site
Capacity factor	95%+
Security of supply	High
Emissions /MWh	Low
Land coverage / MWh	Low

Proven technology



Rolls-Royce has been designing and manufacturing nuclear power plants for submarines for over 60 years

Latest Gen III + of the Rolls-**Royce Pressurized Water** Reactor (PWR)





UK National Policy











ANT Fund £385m

Sizewell C £100m

Future Nuclear Enabling Fund £120m

3 Non-Confidential © 2022 Rolls-Royce SMR | Not Subject to Export Control





Rolls-Royce SMR Ltd is a technology vendor offering a complete SMR power plant on a turnkey basis.

Our development programme is fully funded with £490m through commercial equity and UK Government grant funding

Rolls-Royce SMR Ltd Shareholders

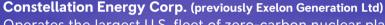


Rolls-Royce Group 60 years designing, manufacturing, supporting and operating nuclear technology



7





Operates the largest U.S. fleet of zero-carbon nuclear plants with over 18.7 GW from 21 reactors at 12 facilities

BNF Resources UK Ltd

Extensive investments in the energy space and represented and advised by BNF Capital Limited, an FCA regulated UK-based investment advisory

Qatar Investment Authority

Invests in the energy transition and funds technologies that enable low carbon electricity generation

UK Government Grant Funding





UK Department of Business Energy and Industrial StrategyRolls-Royce SMR Ltd received the Low-cost nuclear (LCN) grant award by UK Research and Investment (UKRI)

Non-Confidential
© 2022 Rolls-Royce SMR | Not Subject to Export Control



Rolls-Royce SMR is a totally new way of building nuclear to meet Net Zero needs

~470 MWe net output

50 Hz design

Proven PWR Technology & Standard Fuel

Power station turnkey delivery

4 yr on-site Construction (Fleet unit)







Enhanced safety and security

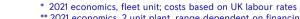
1st unit on grid early 2030s

Capital cost under £2bn

Adaptable, multi-use power & heat output

LCOE range £35-£50 per MWh**



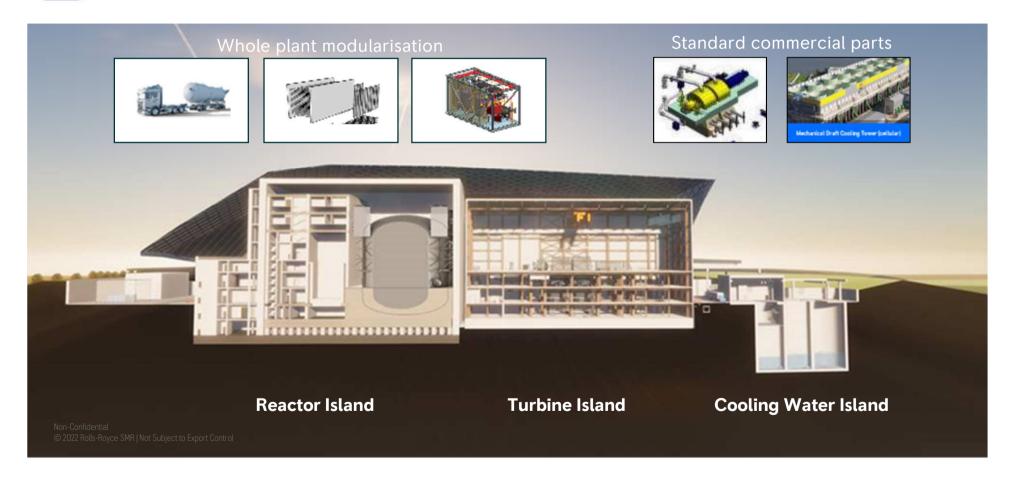






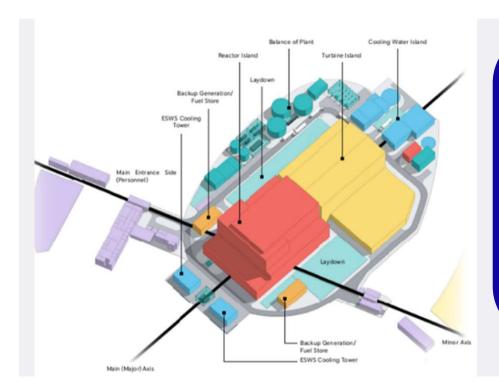


A whole power plant approach focused on standardisation, repeatability, commoditisation





SMR The Rolls-Royce SMR delivers 470MWe (net) in a compact site footprint



Standardized design

Primary Plant area: 0.049km²

Nr of modules: ~1600 (all road transportable)

Largest module: Reactor pressure vessel

Highly energy dense solution: ~3000MW/km^{2*}

(Generated Power: Offshore Wind: ~2.25MW/km²; Solar:~

9MW/ km²)**

^{**} Assumes 50% wind utilisation rate & 20% solar utilisation rate



^{*} Assumes RR SMR operational plant @ 95% utilisation



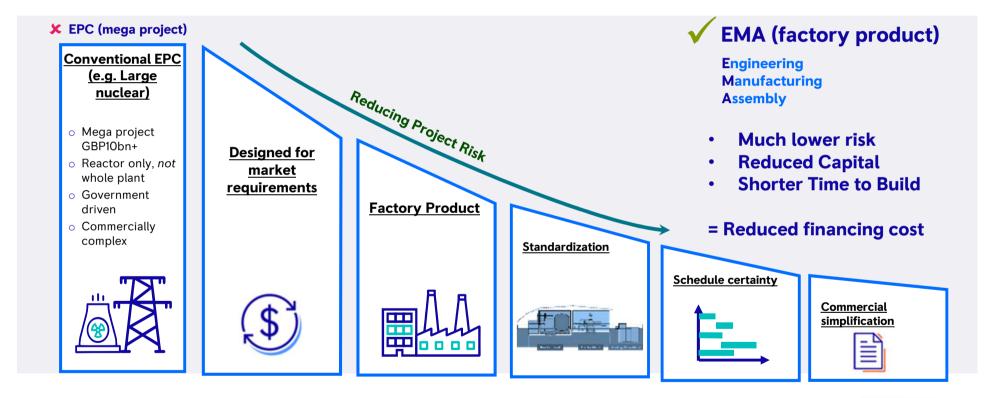
A factory fabricated product - Road transportability of modules is a pre-requisite Modularisation of the whole power station, not just the nuclear island

Module factories Primary modules MEP modules Civil modules Site Assembly Factory





Turning nuclear into a product not a one-off mega infrastructure project







Energy Park

Rolls-Royce SMR's small footprint allows co-location: clean energy located with the industry that needs it

A magnet for industry and high skilled jobs desiring carbon free energy

Removes the need for costly transmission of electrical power over large distances

