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Department for Business, Energy & Industrial Strategy

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Rolls-Royce SMR

15th November 2021

Rich Everett – Group Head of Supply Chain



Who we are: Technology vendor: design, manufacture, supply and assembly/ commissioning of total SMR power plant on a turnkey basis

Rolls-Royce SMR Shareholders







Rolls-Royce – 60 years designing, manufacturing, supporting and operating PWR plants for the UK Royal Navy

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Exelon Generation - Exelon Generation operates the largest U.S. fleet of zero-carbon nuclear plants with more than 18,700 megawatts from 21 reactors at 12 facilities.

BNF Resources - extensive investments in the energy space. The company is represented and advised by BNF Capital Limited, an FCA regulated investment advisory business based in the UK.



Rolls-Royce SMR is a completely different way of building nuclear; factory fabricated, road transported and site assembled.

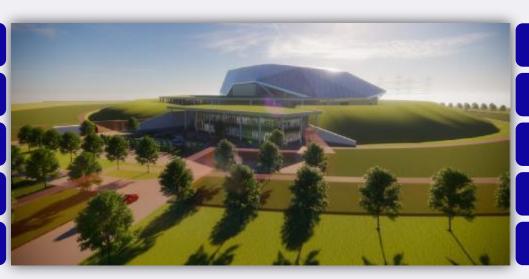
~470 MWe output

50 Hz design

Proven PWR Technology & Standard Fuel

Power station delivery as a turnkey project

4 yr Construction (Nth unit)



Enhanced Gen III+ levels of safety and security

1st unit on grid early 2030s

Capital cost under €2 Bn*

Adaptable, multi-use power & heat output

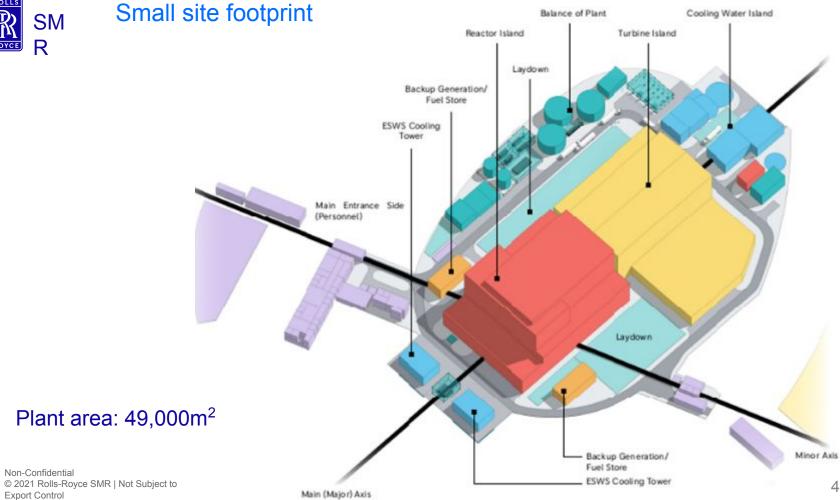
LCOE €50 per MWh*

Rolls Royce SMRs – Low cost, Deliverable, Investable Low Carbon Power

*2019 economics

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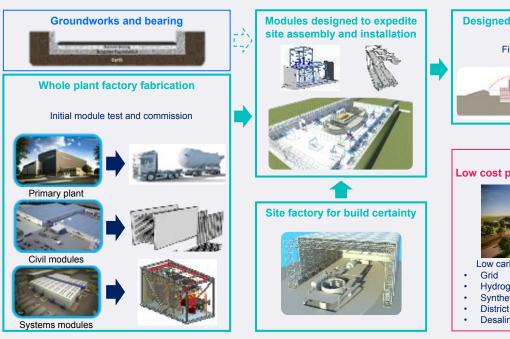






Our product approach represents a completely different way of building new nuclear power plants

- SPV will provide a full turnkey solution to the market
- Aseismic isolation
- Road transportable modules
- 90% of the plant is factory fabricated
- Site factory to reduce risk







Operation

- Low carbon power for
- - Hydrogen production
- Synthetic fuels
- District heat
- Desalination





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



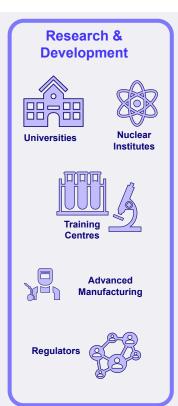
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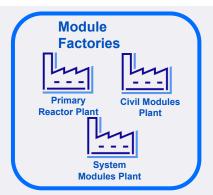
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Rolls-Royce SMR is a factory fabricated product requiring regional capacity and capability is a requirement

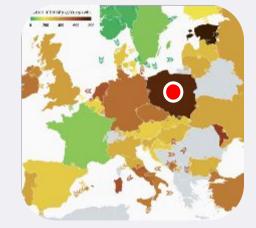






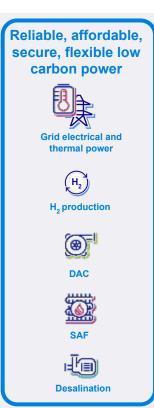


We need a significant fleet with regional hubs to decarbonise total energy











Advancing UK manufacturing











Raising your capabilities

Manufacturing innovation

- Improving cycle time and quality.
- Reducing lead time, cost and risk.
- Developing innovative techniques and technologies.

Supply chain development

- Raising quality, capability and cost competitiveness.
- Helping companies meet nuclear industry requirements and expectations.



Supply chain development

Targeted support for manufacturers

Helping manufacturers raise quality and develop capabilities to meet nuclear needs.

Building links between manufacturers and the nuclear top tier.

- Fit For Nuclear.
- F4OR and other sectors.
- Nuclear Sector Deal delivery.
- Demand modelling.









Fit For Nuclear

Test and develop your nuclear readiness

- •Free online self-assessment.
- •Site visit.
- •Expert analysis and action plan.
- Ongoing support.

Assessment categories

- Strategy & leadership
- Design & project management
- People excellence
- Process excellence
- •Health & safety culture





namrc.co.uk/services/f4n





