



SMR

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# Rolls-Royce SMR

Clean, Affordable Energy for all

## Fermi Energia – New Generation Nuclear Tallinn Feb 2022



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# Rolls-Royce SMR Ltd launched in November 2021 with a fully funded development programme of €559m\* through commercial equity & UK Government grant funding

## Rolls-Royce SMR Ltd Shareholders



### Rolls-Royce Group

60 years designing, manufacturing, supporting and operating nuclear technology



### Exelon Generation Ltd

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 Strategy

Rolls-Royce SMR Ltd received the Low-cost nuclear (LCN) grant award by UK Research and Investment (UKRI)



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

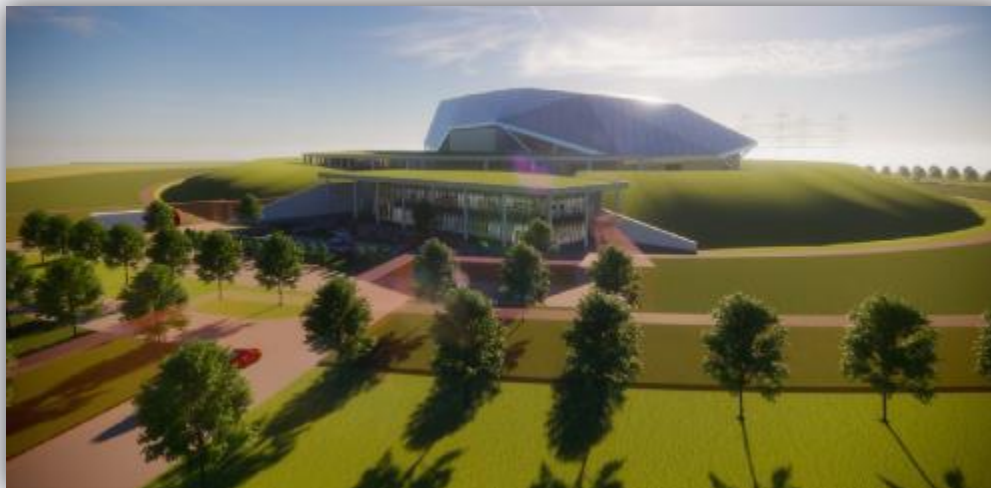
~470 MWe net output

50 Hz design

Proven PWR Technology & Standard Fuel

Power station turnkey delivery

4 yr on-site Construction (Fleet unit)



Enhanced safety and security

1<sup>st</sup> unit on grid early 2030s

Capital cost under €2.3bn\*

Adaptable, multi-use power & heat output

LCOE range €39-€56 per MWh\*\*



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

### ✗ EPC (mega project)

#### Conventional EPC (e.g. Large nuclear)

- Mega project GBP10bn+
- Reactor only, not whole plant
- Government driven
- Commercially complex



Designed for market requirements



Factory Product



Standardization



Schedule certainty



Commercial simplification



### ✓ EMA (factory product)

Engineering  
Manufacturing  
Assembly

- Much lower risk
- Reduced Capital
- Shorter Time to Build

= Reduced financing cost





# SMR Our focus is now on preparing for delivery of the fleet



## Complete Design & Regulatory Approval

UK Generic Design Assessment

IAEA Generic Reactor Safety Review

V&V programme



## Build the Business

Global deployment  
Scalable supply chain  
Regional hubs  
Turnkey delivery  
Flexibility for new markets



## Engage with our Customers:

Governments and State Utilities – Grid

Heavy Industry – Power & Heat

Hydrogen & Synth fuel – Transport



## Prepare for Manufacturing:

Consultation for initial factory sites

Engaging/Contracting with suppliers for complete power station



## Create the framework to realise projects faster:

Bringing together:

Technology

Site

Finance

Operator

Offtake Arrangement

Licencing

**Embedding a culture fit to deliver low carbon power for all**



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**Thank you**



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