The BWRX-300
BWRX300

- 10th generation BWR
- 300 MWe SMR
- World class safety
- LCOE competitive with gas
- Up to 60% capital cost reduction per MW
- Scaled from licensed ESBWR
- Designed to mitigate LOCA
- Reduced on-site staff and security
- Design-to-cost approach: <$1B total and <$2,250/kW
- Capable of load following
- Ideal for industrial applications ... district heating and desal
- Constructability integrated into design

Deployable by 2027
LucidCatalyst independent BWRX-300 cost analysis

- Builds on UK Energy Technologies Institute’s (ETI) study on nuclear cost drivers ... data from 33 nuclear projects & 50+ interviews*

- Database compiled of nuclear project costs and score assignments in eight cost driver categories** ... determined statistical relationships through multiple regression

- Scoring system from -2 to +2 ... 0 is benchmark plant, +2 reflects factors that tend to raise plant costs, and -2 reflects factors that tend to lower costs

- Model calculates expected capital costs for future nuclear plants ... from score assignments across nearly 100 specific indicators within the driver categories

- ETI Nuclear Cost Drivers Study found that a relatively small number of understandable factors drives the cost of nuclear plants

* LucidCatalyst for the Energy Technologies Institute, *The ETI Nuclear Cost Drivers Project*, April 2018

[https://www.eti.co.uk/library/the-eti-nuclear-cost-drivers-project-summary-report](https://www.eti.co.uk/library/the-eti-nuclear-cost-drivers-project-summary-report)

** The eight driver categories are vendor plant design, equipment and materials, construction execution, labor, project governance and development, political and regulatory interactions, supply chain, and post-construction operation
BWRX-300 ... small footprint