

of an advanced modular reactor demonstrator by the early 2030s

- inclusion of nuclear-produced hydrogen in the Net Zero Hydrogen Production Fund and the Renewable Fuels Transport Obligation
- agreement of a new financing model to cut the capital cost for new nuclear projects, and thus the cost of electricity for hydrogen production.

Commenting on the launch of the report, Tom Greatrex, chief executive of the NIA, said, “Nuclear power should be right at the heart of green hydrogen production, alongside renewable technology. Nuclear reactors offer the innovative solutions we need to decarbonize sectors beyond electricity as part of a robust net-zero mix, starting today and going into the future. We are pleased the government has recognized that potential and look forward to working with them and other partners to create a strong framework for green hydrogen production.”

Fiona Rayment, chief science and technology officer at the National Nuclear Laboratory, added, “The transition to a net-zero energy system is an exciting yet significant goal, and none of us should underestimate the scale of the challenge. To enable the deep decarbonization that is required, it is clear that hydrogen will need to play an ever-increasing role. Current and emerging nuclear technology has the flexibility to produce clean, reliable, and cost-competitive energy to address the needs of our industries and markets, whether that is in electricity, heat, or hydrogen. Nuclear-generated ‘green’ hydrogen in particular, alongside other clean energy routes, will enable a plentiful supply to fuel our future economy.”

*Power & Operations continues*

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