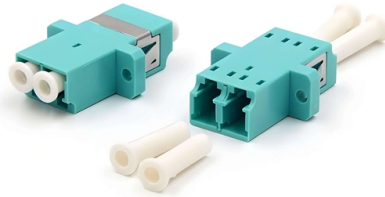


How much does a UK micro-module cost



AI Overview

UK micro nuclear reactors (MNRs) are estimated to cost several hundred million dollars per unit, with exact figures dependent on design, regulatory, and production factors.

Micro Nuclear Reactors (MNRs) in the UK are a distinct class of small reactors, typically under 30 MW electricity and 100 MW thermal output, designed for remote communities, industrial sites, or specialized applications . Unlike larger Small Modular Reactors (SMRs), MNRs are often factory-manufactured, compact, and may integrate the reactor and heat exchange in a single vessel, reducing on-site construction complexity . Estimated Costs:

- While no definitive per-unit cost is publicly available, MNRs are expected to be less expensive than full-scale SMRs due to their smaller size and modular construction.
 - For context, SMRs have an overnight capital cost of \$2,000–\$6,000 per kW, depending on design and location . Applying similar scaling, a 10–30 MW MNR could theoretically cost \$20–\$180 million, though first-of-a-kind units may be higher due to development and regulatory expenses .
 - Costs are influenced by regulatory approval, factory manufacturing scale, learning curve effects, and site-specific requirements. Early units may be more expensive, with subsequent units benefiting from standardization and experience .
- Market Outlook:

- The UK study estimates a potential market of hundreds of MNR units by 2030, with global demand for microreactors reaching up to 2,850 MW (570 units of 5 MW each) by 2030 .

Article Content

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