

# Systematic Review on Public Perception and Acceptance of Small Modular Reactors: Challenges and Strategies

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## **Abstract**

Small Modular Reactors (SMRs) have emerged as a promising alternative for decarbonization, with significant advantages in terms of flexibility, safety and cost. Their success depends on technical feasibility, an adequate regulatory framework and public acceptance. Based on a comprehensive systematic literature review, the aim of this study is to analyze public perception and acceptance of Small Modular Reactors. For its development, the PRISMA methodology (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) was used in the scientific databases Scopus and Web of Science, using descriptors related to the subject under investigation. The results were synthesized systematically, identifying patterns, trends and gaps in the literature related to public perception and acceptance of SMRs. The main concerns raised by the studies were highlighted, as were the factors that positively or negatively influence the acceptance of these technologies, as well as the implications of the evidence for public policy, regulation and the practice of the nuclear industry.