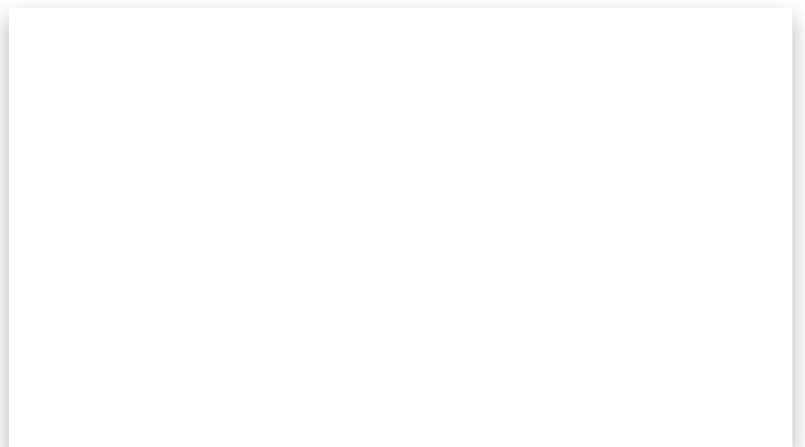


# India's Bold Step Towards Net-Zero with Small Modular Reactors

India plans to deploy 40-50 small modular nuclear reactors to replace captive thermal power plants in its quest for net-zero emissions by 2070. Tata Consulting Engineers and the Department of Atomic Energy are redesigning existing reactors to make them modular and safety-aligned. The initiative highlights the government's commitment to transitioning to nuclear energy.

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Country: **India**

India is set to deploy 40-50 small modular nuclear reactors (SMRs) as part of its strategy to diversify its energy mix and meet its growing demand for electricity.

Amit Sharma, Managing Director and CEO of Tata Consulting Engineers, revealed that the 220-MWe Pressurised Heavy Water Reactor (PHWR) is being redesigned using 3D design platforms. This strategy is intended to standardize the reactors for easier deployment, particularly in older thermal power plants within sectors like steel, aluminum, copper, and cement.

The Department of Atomic Energy and T  
redesigning PHWRs to develop the Bhar  
creating 40-50 reactors within seven to e  
high standardization, safety, and modula  
can be factory-built and are considered c  
change mitigation efforts.