

Nuclear Power: Present and Future

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Abstract

As part of clean & green vision, energy transition and energy security have been highlighted as one of the Priority areas. In India's journey towards Viksit Bharat (developed nation), the Nuclear Energy is expected to form a very significant part of the energy mix. The total nuclear electricity generation is going up from 8.1 GWe to about 22 GWe by 2031-32 and further being scaled up to 100GWe by 2047. India aims to have large percentage of its electricity from nuclear sources by prioritizing energy sources. The much-talked low-carbon energy especially nuclear provides strength to India's overall energy transformation strategy (affordable and clean Energy for all) further. To achieve net-zero emissions, identification of energy mix is required.