

Achieving *net-zero* and relevance of Nuclear Power

During the last 10-15 years, planners and leaders across the world have started having an increased concern regarding the effects of global warming. The global temperature of the earth is expected to be higher by 1.5 °C as compared to the temperatures during pre-industrial days. This has resulted in an increased severity of natural calamities. The rise is expected to continue if the greenhouse gas generation is not checked. Many governments have declared the targets to achieve net-zero. Governments are aiming to achieve the targets by setting up renewable-based plants. However, this may not help in ensuring net-zero greenhouse gas emissions. Many countries are also considering meeting the net-zero target by augmenting electricity generation using nuclear power stations. Among all the countries, India has a very unique challenge of attaining net-zero coupled with realizing a higher human development index. The presentation will attempt to assess the options available with India for augmenting electricity generation using renewables, augmenting nuclear power generation capacity, etc. The presentation shall also mention the use of Small Modular Reactors in the overall energy supply scenario.



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Madhava Lecture Hall, ICTS, 2:30 pm