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Q5

The fusion energy programme in India has steadily evolved over the past few decades. Mention India's contributions to the international fusion energy project - International Thermonuclear Experimental Reactor (ITER). What will be the implications of the success of this project for the future of global energy?

UPSC Civil Services Mains 2025 · GS III · 10 marks · Infrastructure

Infrastructure: Energy, Ports, Roads, Airports, Railways etc.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round. This sheet is for revision, not a substitute for the model answer.

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ITER members

The EU, China, India, Japan, Korea, Russia and the United States share the project in southern France.

Indian in-kind share

About nine per cent of ITER's hardware contribution, including the cryostat, a signature Indian delivery.

Q value

The ratio of fusion power to heating power; ITER aims to show a burning plasma with Q well above one.

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