



HYPERFUSION®

TOMORROW, ENERGIZED

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WHO WE ARE

Hyperfusion Private Limited is building India's private nuclear power ecosystem. We develop advanced nuclear energy projects — bringing Generation-IV small modular reactor (SMR) technology from Europe's leading programmes to Indian grids, industry and the digital economy. Our platform model develops each power project as a dedicated venture with its own site, partners and long-term power agreements, working hand-in-hand with state governments and India's nuclear regulators.

200 MWe

per unit — SMR class

24×7

firm carbon-free power

60 yr

asset design life

530°C

heat for industry & H₂

100 GW

India's 2047 mission

THE TECHNOLOGY

- **Generation-IV lead-cooled fast reactor (LFR)** — one of six reactor families selected as the future of nuclear energy.
- **Safe by physics:** atmospheric-pressure primary system, inert molten-lead coolant, passive walk-away cooling.
- **Closes the fuel cycle:** runs on recycled (MOX) fuel — turning used fuel into decades of clean energy and cutting long-lived waste by up to ~90%.
- **Compact & modular:** factory-built, sited close to demand, ~42% efficiency with industrial heat co-generation.

WHAT WE DO

- **State partnerships** — long-term power frameworks, siting programmes and nuclear readiness for India's growth states.
- **Industry & data centers** — dedicated captive clean baseload with decades of price stability.
- **Ecosystem & localization** — building the Indian supply chain and talent base for advanced nuclear manufacturing.
- **European technology bridge** — connecting India to Generation-IV programmes moving from demonstration to deployment.

WHY NOW

India's landmark **nuclear energy reform of 2025 (the SHANTI Act)** opened the sector to private participation for the first time in six decades, in support of the national mission of **100 GW of nuclear capacity by 2047**. At the same time, demand for firm clean power is compounding — data centers alone are projected to grow nearly ten-fold by 2030 — and Generation-IV reactor technology is moving from design to deployment worldwide. Hyperfusion stands at that intersection: European technology partnerships, Indian execution.

PARTNER WITH US

State governments, industrial energy consumers, technology partners and press: partnerships@hyperfusion.energy
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