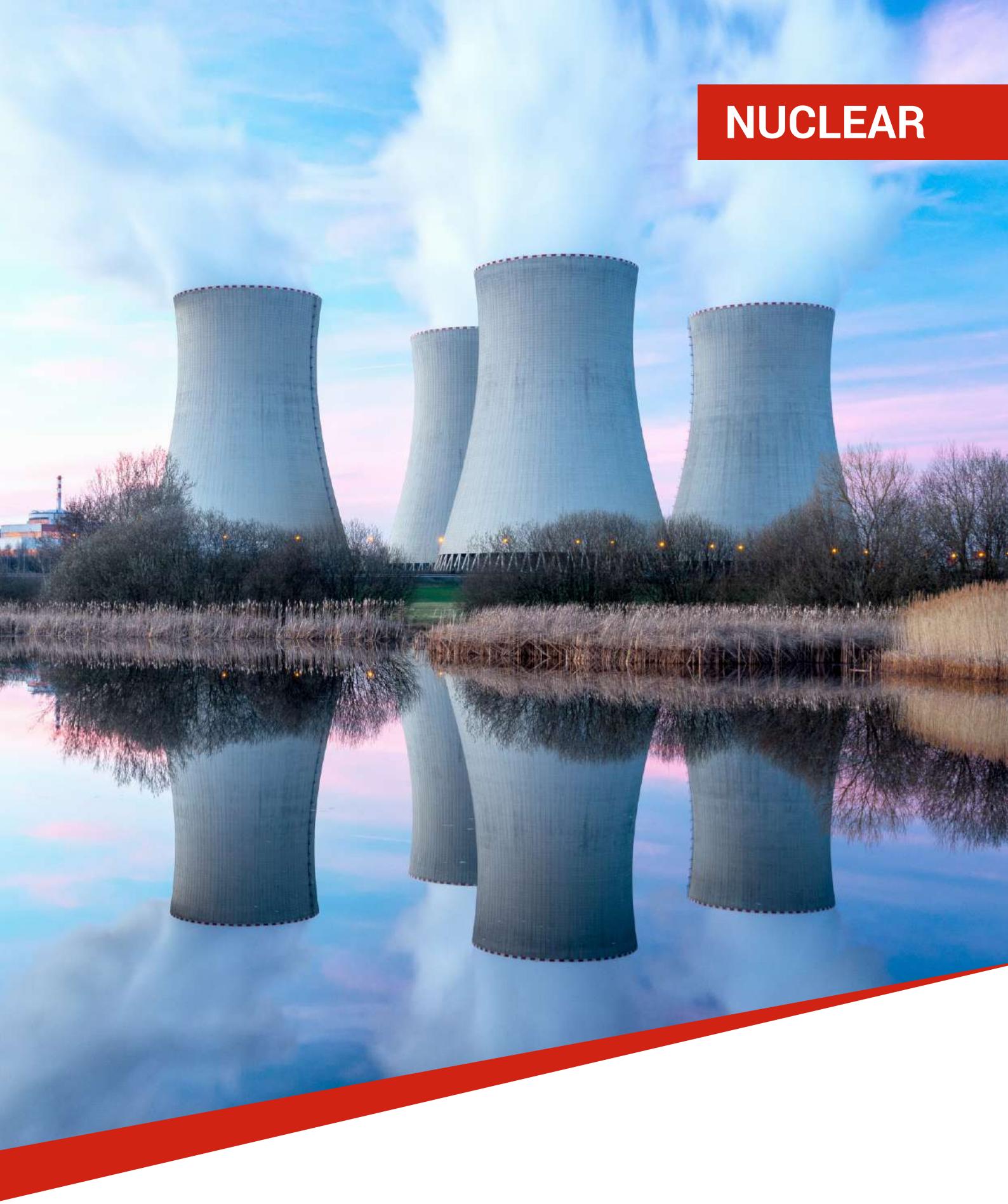
NUCLEAR



www.core.co.in

CORE
Energy Systems Limited

CORE Business Model

Manufacturing of Engineered Packages for Nuclear Industry

TECHNOLOGY GAP IDENTIFICATION

- ✓ Identifying Design and Process Challenges
- ✓ Identifying Technology Gaps
- ✓ Keeping Abreast of Global Technological Advancements
- ✓ Identifying Suitable OEM Partners

COLLABORATION

- ✓ Technical feasibility study of OEM
- ✓ Forging Strategic Partnerships with Reliable OEM and Technology Providers
- ✓ Technology Transfer Agreements
- ✓ Aligning Scope for Localization under Make In India Initiative

DESIGN AND ENGINEERING

- ✓ Research and Development
- ✓ Transforming OEM product for Nuclear Requirements
- ✓ Validation to ensure Process Compatibility
- ✓ Analysis and Simulation
- ✓ Prototype Development





INDIGENIZATION

- ✓ Sourcing of Core components from technology Partners
- ✓ System integration in India using Existing OEM's Setup / Outsourced facility
- ✓ Performance Testing
- ✓ Catering to Indian and Global markets

AFTER SALES

- ✓ Training & Development of Resources
- ✓ Sustained Local and Global Support
- ✓ Operation & Maintenance

Nuclear Solutions





NUCLEAR EPC PROJECTS

- Primary Piping Package
- Nuclear Ventilation
- Sea Water Pumping System
- Common Services Package
- Primary Circuit Refurbishment & Decommissioning Spent Fuel Management Facility
- Electrical & Instrumentation project

TECHNOLOGY DEVELOPMENT & INDIGENISATION

- Micro Modular Reactors
- Small Modular Reactors
- Floating Nuclear Power Plant
- Nuclear Battery
- Spent Fuel Handling & Storage
- Radioisotope Heat Source





ENGINEERED SYSTEMS & PACKAGES

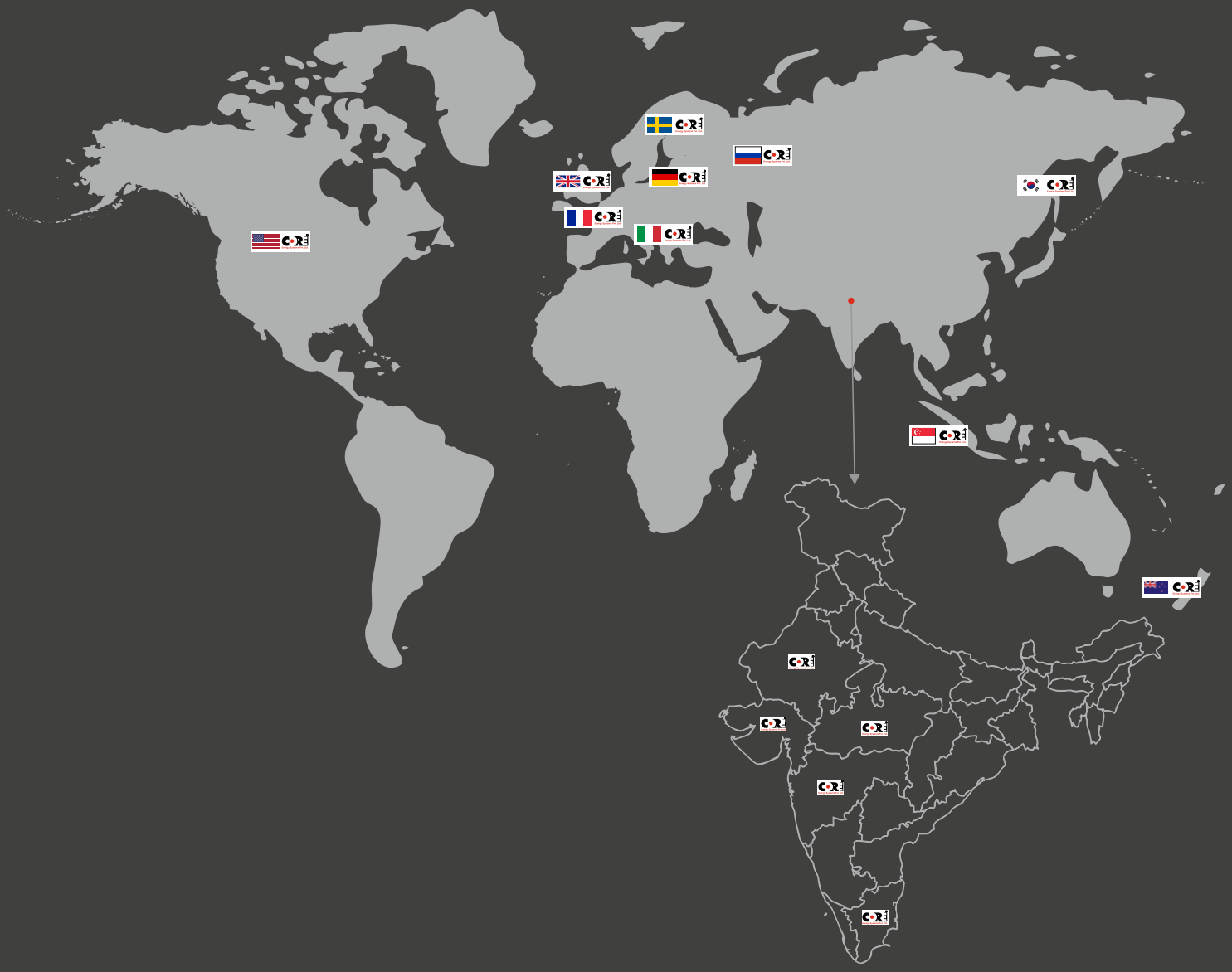
- Compressed Air System
- Safety & Non-Safety Chillers Centrifugal Pumps
- Liquid Ring Vacuum Packages
- Radiation Resistant Camera System
- Class-1 Valves incl. MSIV & MSSV

OPERATION & MAINTENANCE

- Mechanical Maintenance - HVAC, Material Handling. Pumping. Utilities etc.
- Electrical Maintenance & Commissioning
- Operations at Radioactive Laundry, Waste Management Plant. etc.
- Civil construction planning & supervision
- Manpower for various O&M activities in active / non active areas
- Shut down maintenance



CORE Offices and Partners



Energy Systems Limited

GROUP OF COMPANIES

- WESTERN CORE LTD., United Kingdom
- CORE ENERGOATOM MASHINY LLC, Russia
- POMPETRAVAINI CORE INDIA PVT. LTD.

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