

GLOBAL RISE

of
Engineering Excellence

PETALS

POWERING

EXCELLENCE

THROUGH

ADDITIONAL

LIFECYCLE

STIMULUS

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Periods of meaningful progress are often defined less by scale and more by direction. Over the past quarter, CORE's engagements and milestones have reflected a steady alignment between engineering capability and national intent—an alignment that is increasingly critical in a world shaped by technological self-reliance and long-term infrastructure resilience. Our presence and recognition at global forums such as the World Nuclear Exhibition reaffirmed a simple truth: Indian engineering, when anchored in rigour and systems thinking, is no longer a participant but a contributor to global discourse. The Business World leadership recognition during this period was similarly reflective—not of individual achievement, but of an organisation maturing in its responsibilities across complex, high-stakes domains.

Equally significant were developments closer to home. The railway simulation mandate represents more than an order; it signals growing confidence in indigenous solutions for safety-critical infrastructure. Such assignments demand foresight, precision, and an uncompromising commitment to outcomes—principles that CORE has consistently sought to institutionalise. Perhaps the most enduring impact of the quarter, however, came through engagement with the next generation. Our interaction at IIT Bombay, focused on nuclear engineering and scientific curiosity, underscored the importance of preparing future leaders not only with knowledge, but with perspective. In strategic sectors, curiosity must be matched with responsibility.

As CORE continues to evolve, our focus remains clear: to build engineering systems that are credible, future-ready, and aligned with the nation's long-term priorities. Progress, for us, is not episodic—it is structural.

Nagesh Basarkar

Chairman & Managing Director

Message from the
CMD



MISSION



To engineer transformative solutions that:

- Strengthen India's technological sovereignty in critical sectors
- Advance clean energy adoption through Indigenous capabilities
- Deliver excellence through innovation and engineering precision
- Create sustainable value for our stakeholders and nation
- Nurture talent and expertise in specialized engineering domains

We achieve this through our unwavering commitment to quality, safety, and continuous innovation while fostering a culture of excellence and sustainable practices.

VISION



To be India's trusted partner in engineering excellence, enriching lives and driving national self-reliance through innovative solutions in nuclear energy, defence, and aerospace sectors, creating a sustainable future for humanity.

Made in India, Engineered for the World.

Innovate Value, Inspire Experience

C

Great achievements come from teamwork. We leverage each other's strengths, share knowledge, and drive progress together.

Collaboration

O

We take responsibility. We take action. Every challenge is ours to solve, every success is ours to own.

Ownership

R

Strength grows through challenge. We adapt, persevere, and emerge stronger- turning obstacles into opportunities. Our resilience defines our legacy.

Resilience

E

We built trust, not just systems. By granting autonomy, fostering growth, and honoring accountability, we unlock potential in our people, our partners, and our purpose.

Empowerment

BUSINESS BUZZ

CORE's Simulation-Led Expansion into Railway Infrastructure

By Team MarCom

India built 46,000 kilometres of railway track. Electrified most of it. Launched Vande Bharat. Opened freight corridors. Now comes the hard part: training people to operate these systems without breaking them. This month, Indian Railways awarded a ₹262 crore contract to CORE Energy Systems for high-fidelity locomotive motion simulators. The scale is substantial. The responsibility is even larger.

Because after two decades of building assets at breakneck speed, India is finally asking the quiet question that separates mature infrastructure economies from ambitious ones: Can our people handle what we've built?

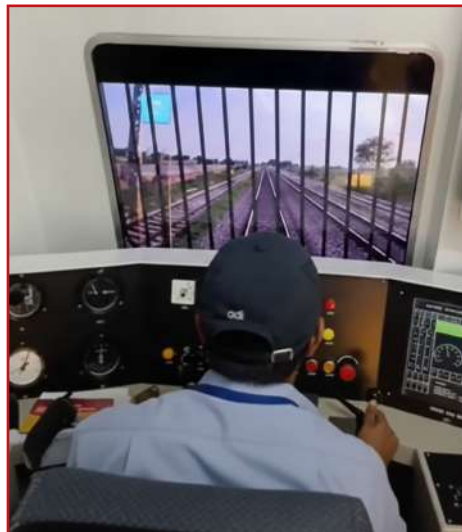
Why Simulation Isn't Optional Anymore

Here's the problem.

You can't train a loco pilot to handle brake failure at 130 km/h on a live track. You can't practice emergency response during a traction motor fire without risking lives and locomotives. And you definitely can't afford the downtime, fuel costs, and insurance exposure that conventional training demands, especially when you're running 13,000 trains daily.

Germany figured this out in the 1990s. Japan baked it into Shinkansen operations from day one. France won't certify a TGV driver without 200+ hours on simulators. India has until now relied mostly on classroom theory and supervised runs. That works for routine operations. It fails catastrophically for edge cases—which is exactly when you need the muscle memory most.

The new simulator contract changes that calculus. Six-degree-of-freedom motion platforms. Immersive cab environments. Digital twins of actual routes, weather conditions, signal failures, and track degradation. The trainers can now crash a locomotive 50 times in an afternoon, learn what went wrong each time, and walk out ready for the 51st scenario, without burning a litre of diesel or risking a single passenger.



What Makes This Different From Past Attempts

India isn't new to simulation. Defence labs have built flight simulators. Software firms have created desktop trainers. Academic institutions run research-grade platforms. But mission-critical infrastructure simulation operates at a fundamentally different level of complexity, assurance, and consequence.

It's not about software fidelity; it's about safety certification. It's not about one-off demos; it's about lifecycle support across decades.

And it's not about pilot projects; it's about national-scale deployment, where failure modes have regulatory, operational, and political consequences. This is where execution credibility matters more than PowerPoint specs.

CORE Energy Systems comes from precision EPC projects and engineering in nuclear power plant environments, where "good enough" doesn't exist. That DNA matters when engineering systems where a software bug can't just crash an app; it could derail training protocols for 50,000 locomotive pilots. The company isn't pivoting into railways. It's applying zero-failure discipline to a new domain. And Indian Railways isn't experimenting; it's institutionalising.

The Horizontal Play Nobody's Talking About

Here's where it gets interesting.

The same simulation architecture that Indian Railways is commissioning works for:

- Defence: Tank crews, Logistics - vehicle operations, naval operators,
- Aviation: Pilot training, air traffic control, ground handling
- Mining: Autonomous vehicle operation in hazardous zones
- Healthcare: Surgical training, emergency response, equipment handling

The underlying challenge is identical: train humans to operate high-stakes systems without risking those systems.

As India's regulatory environment is controlled by DGCA mandates for aviation, AERB for nuclear, and upcoming autonomous vehicle norms, the simulation will stop being a "nice-to-have" and become a compliance gateway. Which means this ₹262 crore railway contract, significant as it is, might just be the beginning of something much larger.

What This Reveals About India's Maturity Curve

For decades, India's infrastructure story was told in construction metrics: megawatts commissioned, lane-kilometres paved, terminals opened. Building capacity is table stakes. Building competence is the new frontier, and the bottleneck isn't concrete anymore; it's human readiness at scale. Simulation-led workforce development doesn't solve everything. But it solves the part that conventional training can't: compressing learning curves, standardising responses, and building institutional memory for rare but critical scenarios.



The Quiet Capabilities Shaping Bottom Line Critical Infrastructure

One last point is worth noting. The most visible infrastructure developments capture headlines—mega-ports, expressways, industrial corridors.

But beneath them lies a parallel capability: the control systems, safety protocols, and training infrastructure that determine whether those assets perform under stress. They're the reason India's industries operate at world-class capacity factors. The reason precision manufacturing is finally scaling. And now, potentially, the reason locomotive pilots across 17 zones will train to identical, certifiable standards. That's not glamorous infrastructure. That's foundational infrastructure. And it demands execution discipline that matches the responsibility, because when you're training operators for safety-critical systems serving millions, there's no room for "close enough."

Five years from now, when India's railways are running faster, denser, and safer, when accident rates trend down and operational consistency trends up, this will be one of the decisions that quietly mattered. Because the hardest infrastructure to build isn't made of steel and concrete. It's made of competence, repeatability, and the quiet confidence that comes from training for failure before it happens.

And India, finally, is building that too. Organisations like CORE Energy Systems, forged in zero-failure environments, now applying that discipline to national-scale training infrastructure, represent exactly this shift: from engineering critical systems to building the critical capabilities that national infrastructure depends on.

That's the infrastructure story worth watching.



PROJECT PRISM

Rejuvenating a **Nuclear Lifeline**

By P Padmanabhan, Associate Director - Design & Engineering

TAPS Units 1 & 2 - Primary Recirculation Piping Replacement Project

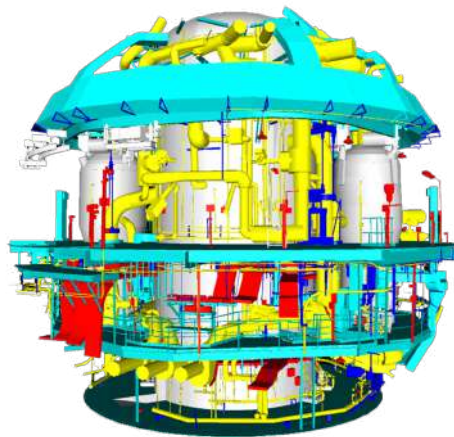
The successful replacement and commissioning of the Primary Recirculation Piping (PRP) systems for Tarapur Atomic Power Station (TAPS) Units 1 & 2 represents a defining milestone in India's nuclear Long-Term Operation (LTO) journey. Executed under stringent nuclear safety, quality, and schedule constraints, the project reflects Core Energy's philosophy of engineering with integrity, innovation, and disciplined execution—from concept to commissioning.

From Concept to Commissioning: Engineering Excellence in Action

The Primary Recirculation Piping System is the lifeline of a Boiling Water Reactor (BWR). It connects the reactor pressure vessel to the recirculation pumps, enabling forced circulation of coolant through the core to ensure heat removal, power control, and safe reactor operation. At TAPS Units 1 & 2—among India's earliest nuclear power units—the original recirculation piping had operated reliably for decades under severe thermal, pressure, radiation, and vibration conditions. With Long Term Operation (LTO) envisaged, replacement of this safety-class system became mission-critical and non-negotiable.

Core Energy's engagement began at the conceptual stage, where multiple replacement strategies were evaluated with a clear objective: to achieve the highest safety and quality standards while minimising outage duration and execution risk. Early emphasis was placed on constructability, radiation dose optimisation, and seamless integration with legacy reactor geometry.

Detailed engineering followed, covering routing optimisation, piping stress analysis, seismic qualification, thermal expansion evaluation, and interface engineering with nozzles, recirculation pumps, and supports. All designs were qualified to ASME Section III Class 1 requirements and aligned with NPCIL's rigorous nuclear QA framework and in strict conformance to AERB framework and guidelines. Advanced analytical tools, combined with Core's deep domain expertise, ensured that potential risks were identified and mitigated well before site execution.



3D Scanning and modeling

Manufacturing was executed under nuclear-grade quality controls with full material traceability. Thick-walled stainless steel nonstandard piping spools were fabricated using qualified welding procedures, with strict control over heat input and residual stresses. Every weld underwent 100 percent volumetric non-destructive examination, supported by comprehensive documentation and hold-point clearances. Precision fabrication ensured dimensional accuracy, enabling smooth installation within the tight spatial constraints of the reactor building.



24.75" ID, 1.055" Thk.
ASME SA 403 SS 316LN Fitting

Site execution represented the convergence of planning, discipline, and teamwork. Activities were carried out within radiation-controlled areas, under strict work sequencing and safety protocols. Controlled dismantling of the old piping, precise alignment of new spools, execution of critical field welds, and progressive inspections were completed without compromising safety or quality. Close coordination between engineering, quality, and site teams ensured adherence to the schedule despite the complexity involved.

Post-installation, the system underwent exhaustive testing, including hydrostatic tests, system flushing, cleanliness verification, functional checks, and final readiness reviews. The successful test run and commissioning of Unit #1 validated the integrity, reliability, and performance of the new recirculation piping system, marking a major milestone in the LTO program.

Core Energy Systems Limited received global recognition

The technical sophistication and execution strategy adopted by Core Energy received global recognition with the Innovation Award for Long Term Operation at the World Nuclear Exhibition (WNE), Paris. This achievement underscores Core's capability to deliver complex nuclear projects that meet international benchmarks.



Innovation Award by World Nuclear Exhibition (WNE) 2025, Paris

This milestone is the result of collective excellence—engineers, designers, quality professionals, project managers, site teams, and leadership working together with a shared purpose. Under the visionary leadership of CMD Shri Nagesh Ji, Core Energy has once again demonstrated its ability to rejuvenate critical nuclear assets with confidence, credibility, and care.

As Core Energy continues its journey, the TAPS Units 1 & 2 PRP Replacement Project stands as a living example of the **PETALS philosophy—Powering Excellence Through Additional Stimulus**—where knowledge, innovation, and teamwork come together to serve the nation.



PROJECT HIGHLIGHTS

Scope:

- » Replacement of Primary Recirculation Piping for TAPS Units 1 & 2
- » Safety-class nuclear piping within reactor building

Codes & Standards:

- » ASME Section III Class 1
- » AERB guidelines & NPCIL Nuclear QA Requirements
- » ISO 9001 & ISO 19443

Key Achievements:

- » Successful test run and commissioning of Unit 1
- » Zero compromise on nuclear safety and quality
- » Innovation Award for LTO at WNE, Paris

LEADERSHIP VOICES



The successful commissioning of TAPS Unit 1 is a proud moment for Core Energy. It reflects our team's unwavering commitment to nuclear safety, engineering excellence, and national responsibility

— Shri Nagesh Ji, CMD



This project demonstrates how deep engineering, meticulous planning, and disciplined execution can rejuvenate legacy nuclear assets and extend their safe operating life

— Project Leadership Team



Mr. P Padmanabhan



FUTURE FUEL

India's Nuclear Decade: From Ambition to Execution

By Dr. Chetan Parkash Kaushik, a fellow of the National Academy of Engineering (FNAE) and Technical Advisor at CORE Energy Systems Limited, and former Director, Nuclear Recycle Group, BARC.

India is entering a new phase in its energy transition. When Prime Minister Narendra Modi called for enhancing nuclear capacity, he set a national goal that prioritises clean, reliable baseload power as central to India's long-term economic growth. The upcoming amendment to India's nuclear framework reflects this change. It seeks to develop a more integrated capability ecosystem, where scientific leadership, operational discipline, and engineering expertise co-evolve to meet the country's growing energy demands.

India's nuclear institutions, under the aegis of DAE, viz. BARC, NPCIL and AERB have built a foundation that is technically rigorous and globally respected. The next phase of growth will need a broader engineering framework capable of delivering scale while maintaining absolute safety. A 100-GW nuclear vision for 2047 will be driven by the combined strength of these institutions and an engineering ecosystem capable of turning national goals into consistent, high-quality results. India's engineering capability is now at a pivotal point, where its development can significantly influence the country's energy future.

Across the country, engineering organisations are steadily enhancing their competencies related to mature nuclear economies. This development is deliberate; it mirrors the increasing demand for advanced, high-assurance engineering solutions as India expands and modernises its nuclear fleet.



Dr. Chetan Parkash Kaushik

Skills in precision manufacturing, complex piping systems, and specialised metallurgy are becoming essential for ensuring long-term plant reliability and safety. The refurbishment of the Primary Recirculation Piping system at TAPS 1 and 2, executed under the stringent regulatory framework of AERB and guidelines of NPCIL by CORE

Energy Systems Limited as the lead EPC organisation, reflects a rare blend of discipline, precision and system-level thinking that defines mature nuclear economies. Its recognition at the WNE Nuclear Summit was not merely an award; it was an acknowledgement that India's engineering capabilities are now contributing meaningfully to the continuity, safety and advancement of the nation's nuclear fleet.

The efforts to manufacture critical systems, such as the Primary Coolant Pump (PCP), locally signify a major shift in India's nuclear capabilities. As the component responsible for maintaining continuous coolant flow in a reactor, the PCP is vital for thermal stability and operational safety.

Its indigenisation is reinforced through CORE Energy's strategic partnership with global technology leaders such as M/s Flowserve, which would facilitate the development and qualification of a domestic supply



chain and create opportunities to train and upskill a new generation of Indian technologists, fabricators, and system vendors capable of supporting long-term reactor operations. Indigenisation will be crucial to India's nuclear expansion. As the fleet expands, the ability to design, manufacture, and service safety-critical equipment domestically will support operational continuity, decrease strategic vulnerabilities, and strengthen the broader aims of India's Nuclear Energy Mission for Viksit Bharat.

Simultaneously, India is cultivating a unique engineering identity. Indigenous precision tools, digital diagnostics, advanced welding controls, alongside AI-enabled inspection and predictive maintenance frameworks, are beginning to influence how nuclear assets are constructed and operated. These capabilities are bringing Indian engineering closer to international standards and broadening the country's role in the global nuclear ecosystem. India is now contributing to the engineering principles that ensure long-term reliability and support the nation's broader net-zero ambitions.

The evolution of India's nuclear pathway will be further strengthened as the Regulator, the Operator and the engineering ecosystem work as a unified capability chain. Such alignment enhances safety oversight, accelerates project execution and reinforces long-term supply resilience. It also advances the vision of Atmanirbhar Bharat by ensuring that capability is built, maintained and expanded within the country.

India's nuclear progress will ultimately be measured not only by the reactors it builds but also by the depth of capability it develops, including scientific, operational, and engineering ecosystems. With the likelihood of Indian industries participating in the development of nuclear technology, the country has an opportunity to shape one of the world's most future-ready nuclear ecosystems. Engineering excellence will be central to this effort, supporting a clean, sovereign and globally confident energy future for a Viksit Bharat.

India's nuclear institutions, under the aegis of DAE, viz. BARC, NPCIL and AERB have built a foundation that is technically rigorous and globally respected

— Dr. C.P. Kaushik



Excellence, When It Is **Built** **Into the System**

By Team MarCom



Business Leader of the Year – Emerging Business (Gold Category) at 7th Annual BW Emerging Business Awards 2025

In critical infrastructure, excellence is never incidental. It is cultivated over time—through choices that prioritise discipline over display, preparedness over pace, and responsibility over convenience. The recognitions received this year by CORE Energy Systems Limited and its leadership reflect such a journey—one shaped by long-term intent and an unwavering commitment to engineering rigour.

The Business Leader of the Year – Emerging Business (Gold Category) award conferred on Nagesh Basarkar, Chairman & Managing Director of CORE Energy Systems Limited, at the

7th Annual BW Emerging Business Awards 2025, acknowledges a leadership approach grounded in substance.

Leading in domains such as nuclear, oil & gas, and defence is not about momentum alone; it is about judgement—about building organisations that can be trusted to deliver where precision, safety, and process discipline are non-negotiable.

At CORE, leadership has translated into enterprise-wide readiness. Readiness of people, through sustained investment in engineering capability.

Readiness of systems, through robust processes designed for complex brownfield and lifecycle projects.

And readiness for the future, through advanced technologies and indigenous solutions that strengthen India's strategic infrastructure ecosystem.

This leadership recognition is complemented by CORE being conferred the Certificate of Merit for Engineering Services & Consultancy at the SME Empowering India Awards 2025—recognising the development of indigenous, end-to-end technical

solutions for complex environments where engineering excellence is measured by reliability, safety, and outcomes that endure.

Yet, for CORE, recognition is not an inflection point—it is an escalation of responsibility. In sectors where engineering outcomes carry national consequences, visibility must be matched by accountability.

—not just of delivery, but of foresight, preparedness, and ethical stewardship of technology. This belief shapes CORE’s approach to growth. Investments in people, advanced engineering capability, and future-ready systems are deliberate decisions—made with the understanding that scale brings greater obligation. Whether operating in nuclear, defence, or oil & gas, the organisation measures progress not by expansion alone, but by its ability to remain precise, dependable, and trusted under increasing complexity.

For CORE Energy Systems Limited, the journey ahead is defined not by awards received but by the responsibility to consistently deliver engineering excellence where it matters most.



“Certificate of Merit” for Engineering services & Consultancy at SME Empowering India Award 2025

A Current That *Refuses to Be Switched Off*

By Sandhya Sirsat, Graduate Engg. Trainee (GET)

I grew up in a small village where dreams were fragile things—soft, quiet, and often dismissed before they even found their voice. As a girl, the message around me was clear: study just enough, don't aim too high, don't want too much.

But my father thought differently. He always knew I had the capability to do wonders if I continued studying. He saw a spark in me long before I recognised it myself. Yet he wanted to challenge the fire within me, to push me to rise beyond what anyone around us could imagine. So, one day, with a conviction that shaped my life forever, he said:

“Score 80%, and I will take responsibility for your education.”

That challenge awakened something powerful inside me. It didn't scare me, it fuelled me.

And quietly behind both of us stood my mother—my silent, steady pillar. She never spoke much about dreams or achievements, but she supported mine in ways only a mother can. Every early morning, before the sun even rose, she would hand me a hot cup of tea. That simple cup became my ritual of strength, my boost for long study hours, and a reminder that even silent support can shape destiny.

I studied with a focus I didn't know I had. When the results came, and I saw 90.20%, it felt like the first door I had ever opened for myself. Suddenly, I wasn't just a girl from a quiet village—I was someone who could aim higher, someone who deserved to.

Securing admission into Government Polytechnic College, Aurangabad, felt like stepping into a bigger, louder world.

I was shy, unsure, and carried the weight of proving myself every single day. But piece by piece, I built confidence through completed assignments, tough exams, and small victories that only I knew the value of.



“Every step forward felt like rewiring my life with more courage.”

Finishing my diploma with 89.47%, entering a government engineering college, and completing my Electrical Engineering degree from Dr. Babasaheb Ambedkar Technological University, Lonere, were milestones that shaped me not just academically, but emotionally. Each achievement was a reminder that no starting point is final.

The moment that stays with me forever is the day I received multiple job offers even before graduating. For my parents, it was pride. For my village, it was a possibility. For me, it was validation that all the struggle, doubt, and late-night studying were worth it.

Today, when I walk into CORE Energy Systems Limited as a Graduate Engineer Trainee, I walk in with more than a degree. I carry years of resilience, a father's belief, a mother's unwavering support, and a dream that refused to dim.

Working here has shown me how closely life resembles the circuits I study. I've learned that:

“Dreams don't move unless you power them, like voltage waiting for the right connection.”

I've realised that life's challenges act like circuit breakers. They interrupt you, yes, but only so you can rebuild stronger, safer, and more prepared. And when passion finally meets persistence, the current you create can illuminate not just your world, but the dreams of everyone watching you silently.

“When passion meets persistence, you become someone else's source of light.”

To every young engineer reading this, especially girls who come from places where dreams are treated as luxuries, please hear this from me:

Don't let anyone dim your light. You are the current. You are the spark.

And if I had to sum up everything I've learned so far, it would be this:

“*If you choose to flow, no one can switch you off*”

A Journey of Pride and Possibility: My Experience at WNE 2025

By Nidhi Shelar, Sr. Manager-CMD Office

Standing amidst the bustling halls of Paris Nord Villepinte for the World Nuclear Exhibition 2025, I realised I was witnessing far more than an industry event, it was a global gathering of visionaries shaping the future of nuclear energy. Being part of the CORE delegation at such a prestigious platform was both an honour and a defining professional milestone.

The journey began nearly two months earlier, with meticulous preparation that spanned travel formalities, logistics, materials, and coordination with the WNE organisers. Our Marketing, Logistics, and Admin teams played an extraordinary role in enabling every detail. As the departure date approached, the sense of responsibility grew stronger—but so did the excitement. From the moment the exhibition opened, I experienced international event management at its highest standards. Managing on-ground coordination at our pavilion, supporting visitors, and ensuring a smooth experience for all gave me valuable insight into how global exhibitions truly function. As the days progressed, I realised that the event was shaping not only my understanding of the industry but also my professional capabilities. My key learnings during this journey included:

- *Understanding how large international events are conducted, from operational precision to delegate flow management.*
- *Improving cross-cultural communication through engagement with participants from diverse backgrounds*
- *Observing global working styles and professional etiquettes, offering a broader perspective on collaboration.*

• *Recognising the importance of networking and relationship-building, especially in an industry driven by partnerships.*

• *Balancing multiple responsibilities under pressure, and learning to stay efficient, organised, and calm despite last-minute changes.*



Walking through various country pavilions felt like exploring the future of nuclear innovation. From advanced reactor technologies to AI-enabled safety systems and sustainable energy solutions, every display reinforced how rapidly the sector is evolving. Each conversation expanded my understanding of global priorities and the collective momentum toward safer, cleaner energy.

A moment that will stay with me forever was CORE being honoured with the WNE Innovation Award. Standing with the team as our organisation received recognition on such a prestigious world platform filled me with a profound sense of pride.

It reaffirmed the respect CORE commands internationally and reminded me how meaningful our contributions are.

Beyond the professional exposure, the experience of being in Paris added its own charm.

The culture, the heritage, and the vibrant energy of the city made this journey truly unforgettable.

If I were to capture the essence of this experience in one thought, it would be:

Every time you represent your organisation globally, you become the face of its courage, its values, and its vision for a larger future.

WNE 2025 was not just an event for me, it was a turning point filled with learning, inspiration, and immense pride in representing CORE alongside my colleagues.



The Work That Happens **Before the Applause**

By Kallpana Bhan GM – Strategy & Digital Transformation, Marketing

A journey that began quietly, travelled far, & came home with pride.

There's a kind of work that never shows up in photographs. It doesn't stand on stages or find its way into captions. It lives elsewhere—in draft folders, in long calls, in repeated checks, in the silence after a question is asked and no one answers immediately because everyone is thinking.

For CORE Energy Systems, the World Nuclear Exhibition 2025 was never just three days in Paris. It was a journey that began much earlier—in April—when a decision slowly turned into responsibility, and responsibility turned into a shared rhythm: do it right, even if it takes longer.

Because those who work in nuclear engineering know this: WNE is not just a place where people gather. It is where work is quietly tested, patiently examined, and—when it truly deserves it—recognised. Here, innovation is not admired for how new it sounds, but for how deeply it has been thought through and how responsibly it has been executed. Claims are not taken at face value; they are weighed against the complexity of the design, criticality and execution skill, safety, regulatory requirements, impact, and the promise of long-term performance.

Every two years in Paris, the world's most serious nuclear minds come together—not to be impressed easily, but to understand carefully.

That understanding quietly shaped everything that followed.

The Questions That Made Us Go Deeper

The Innovation Award did not begin with a trophy.

It began with questions. Many of them. Not the easy kind.

Why was this done?

How was it executed?

What truly changed because of it?

So, the teams collaborated across engineering, design, and project execution.

What emerged was a direction shaped by leadership thinking, planning that sustained the effort, and the courage to venture into uncharted territory in the Indian subcontinent.

It was a Primary Recirculation Piping Loops Replacement in an ageing Boiling Water Reactor. Indigenisation was never featured as a headline. It was explained solely through effort—through every weld, every cut, every joint, and every activity carried out under the strictest safety and quality norms governed by AERB and NPCIL.

The work was captured and described exactly as it was done, not as it was wished to be seen.

This was not just about answering a questionnaire. It was about telling the truth of the entire project—its context, its impact, its sequencing, and the physics, science & logic behind every operation. About making a global jury, with no background or familiarity, understand not just what was done, but why it mattered. And how it quietly shifted perceptions around what home-grown solutions can achieve in one of the world's most demanding industries.

The journey of submissions and interactions was not without its moments. There were language barriers. Interpretations. Revisions. Long pauses after everything had been sent—when the waiting felt heavier than the work itself.

But the work never stopped. It simply moved forward to the next stage, with a clear focus: to deliver the very best of what we knew, and to stand by it.



The People Behind the Pages

Long before the stage, there were documents.

And behind those documents, there were people.

Abhay worked relentlessly, tracking every form, every questionnaire, every compliance detail. Each question from the jury was examined, consolidated, refined, and answered with depth by our Paddy Sir, who stood firm through the technical detailing, ensuring every response reflected engineering truth.

The marketing team—Kaushtubh and Vipul—examined every creative aspect and front-facing element for WNE, ensuring nothing was overlooked, and each visual was curated correctly. From the CMD's office, Nidhi ensured alignment and preparedness at every stage, noting each line item in trackers and rechecking inter-departmental readiness and giveaways. From Admin, Sheela ji quietly ensured nothing slipped through the cracks—managing bookings, visas, stays, collaterals, and every small matter that becomes large when it goes wrong.

Not mentioning the names would leave the story incomplete. Suppliers, partners, and service providers supported tirelessly, answering calls, adapting repeatedly, and staying aligned until every detail was addressed. And over it all was the constant overview and guidance of the CMD, ensuring that the standard never dropped.

Because this was never about one person.

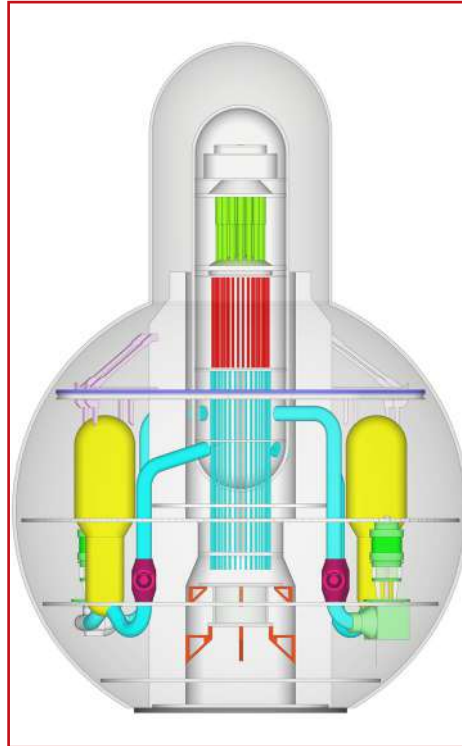
It was about what happens when everyone stands in collaboration.

Engineering, Brought to Life

At the heart of everything was the engineering story itself.

The 3D model, built from scratch, captured every weld, every joint, every replacement with precision through a design lens. Sh. Rajeshwar Rao / Sh Laxman Rao, who worked

through the technical detailing, reviews, and refinements that gave the model its accuracy.



Sh. Padmanabhan connected design to execution—through innumerable calls with suppliers, visits, corrections, ensuring every replacement of Primary circulation pipes was right, and making certain the video and 3D model spoke the same language. Technical zoom calls, Endless refinements, unless it stood apart, a model that reflects the effort of hundreds of engineers at the site as the first Primary recirculation replacement model, first of its kind in the nation. We mention these names deliberately. Because years from now, when someone reads about this historic win, they should connect not just to the achievement, but to the people behind it.

The Invisible Mountain of Compliance

Even teams inside CORE, and visitors who walked into the stall with curiosity and admiration, would never fully realise how much it takes to make a single space at WNE stand there.

Long before panels went up or lights were switched on, there were forms—many of them.

Architectural and technical regulations to be studied and submitted.

Fire safety clearances to be obtained.

Declarations for equipment in operation.

Certificates of good assembly.

General Coordination Plans for Safety and Health Protection—prepared, reviewed, and certified.

Exhibitor certifications.

Audio-visual system requirements and approvals.

Furniture layouts, positioning calls, and confirmations.

Each line item came with its own set of documents.

Each document came with its own questions.

Each question came with a follow-up.

The work stretched across languages, time zones, and calendars that refused to align neatly. There were innumerable calls with suppliers. Endless clarifications. Back-and-forth exchanges that tested patience, but never intent.

Because at a platform like WNE, nothing is casual. Everything must be right.

This was the kind of effort that takes months but disappears in seconds—noticed only if something goes wrong. And the only way to honour it is to ensure that, when Paris opened its doors, everything worked.

Through it all, Vipul's readiness videos became small sparks of shared energy. They reminded everyone—midway through forms and fatigue—why the work mattered. They kept the momentum alive, turned preparation into anticipation, and transformed pressure into collective adrenaline.

The stall may have looked effortless.

The effort behind it was anything but.



The Email That Changed the Mood

At WNE, where hundreds of companies gather, being shortlisted itself carries weight.

So when the message arrived confirming that CORE Energy Systems Limited had been nominated, the air changed. The work was far from over—but now it carried a different energy. A quiet confidence. The sense that the effort had been seen.

It wasn't a celebration yet.

It was an acknowledgement.

And that mattered.

Paris Felt Familiar

When the team finally arrived in Paris, it didn't feel like an arrival. It felt like a continuation.

The stall stood ready, shaped by months of preparation. Conversations flowed because the answers had been thought through long before the questions were asked. Discussions were technical, grounded, and meaningful.

The ribbon-cutting ceremony—led by His Excellency Mr Sanjeev Singla, Ambassador of India to France—was a moment of recognition. He later publicly acknowledged the win on X, highlighting the transformative role of the private sector in India's 100 GW Nuclear Energy Mission by 2047, and congratulating CORE for showcasing India's growing excellence in the global civil nuclear industry.

It was a moment that quietly said: "Indian engineering belongs here."



When the World Walked In

For three days in Paris, the CORE stall became a conversation.

Representatives from the Global Nuclear fraternity stopped, stayed, and engaged. Discussions moved from strategy to execution—For the CORE technical team, these three days quietly established that indigenous engineering doesn't need qualification. It stands on merit, speaks with authority, and earns respect through substance.

When global leaders engage as equals, the narrative shifts.

And it shifted, visibly, over those three days in Paris.

The Moment on Stage

The award ceremony carried the familiar rhythm of global excellence—lights, names, applause.

But for those standing there, time moved differently. When the host said that the innovation submissions had made it extremely difficult for the jury to decide, the room seemed to hold its breath.

And then came the words:

"The final winner is CORE Energy Systems Limited."

On stage stood the CMD, Mr. Nagesh Basarkar, Mr. Badrinath Sawant, Senior Vice President – Projects, and Mr. Dheeraj Hegde, AGM – Sales, not as individuals, but as representatives of a journey that had started months earlier, far from Paris.

Holding the trophy, the CMD dedicated the win to the client NPCIL, which trusted CORE with one of the most complex and challenging BWR projects, and to the teams whose courage and discipline made it possible. He thanked the jury for acknowledging the project as a landmark innovation. The project is a remarkable example of operational excellence, indigenous engineering tools, and uncompromising safety and quality norms.

Those words, spoken on the WNE stage in Paris, were not rehearsed.

They lived.

When the Journey Came Home

Some victories arrive twice.

Once on stage.

And once again, when they return home.

Back at the office, the celebration was different. Not loud—just warm. Smiles that carried relief. Messages that carried pride. A shared sense that something meaningful had been achieved—not by one function, but by many. Design. Engineering. Admin. Logistics. Procurement. Leadership. The CMD's office. All moving, at different times and in different roles, toward the same goal.

Holding the award brought joy.

Bringing it home brought belonging.

What This Means for All of Us

Here's what this journey truly represents:

For India, it was a moment of quiet national pride. To be the only country to receive this innovation award at a global stage in France is not just a milestone—it's a statement. Indian engineering can compete, innovate, and lead in one of the world's most regulated and demanding industries. That indigenisation is not just policy, it's proof.



For the nuclear fraternity worldwide, it was a reminder that innovation is not always about reinvention. Sometimes it's about execution at a level so rigorous, so disciplined, that it shifts what's considered possible. CORE's BWR replacement project set a precedent, not because it was loudest, but because it was truest.

For every individual who contributed, from the person managing visa paperwork to the engineer refining the 3D model at midnight—this award says: you mattered, not in abstract terms, but in the most concrete way possible. Your diligence, your patience, your refusal to let standards slip, that's what stood on stage in Paris.

Because here's the truth: global excellence is not built by extraordinary people doing extraordinary things. It's built by ordinary people doing ordinary things extraordinarily well, day after day, choice after choice.

What WNE Really Demands

Winning at the World Nuclear Exhibition is unlike any other platform. Here's why:

Zero tolerance for safety – Every claim is verified against the industry's most stringent benchmarks.

Regulatory awareness – Work must meet not just national standards, but global nuclear norms.

Long-term relevance – Innovation is judged not by novelty, but by sustainability and scalability.

Institutional credibility – The jury looks for depth, not dazzle.

Winning at WNE is not about visibility. It is about trust.

A Story That Stays

Yes, engineering excellence is a pride. But it is also a responsibility.

WNE 2025 reminded everyone involved that global platforms reward not just brilliance, but also planning, collaboration, patience, and persistence. This journey—from April to Paris and back—became a living example of how world-class outcomes are built: quietly, collectively, and with respect for detail.

And that is why this story will be remembered—long after the photographs fade.

Not because we won.

But because of how we won.

And who we became along the way.

This is what it means to represent a nation. Not with noise, but with work.



The Question That **Changed Everything**

By TeamMarCom

When Sh Narayana Murthy inaugurated TechConnect 2025 at IIT Bombay, he spoke about the power of academia-industry collaboration—not just knowledge transfer, but genuine capability building that advances the nation.

Over three days at CORE's pavilion, we saw that vision come alive. Visitors, students, faculty, and industry leaders—all connected around one theme: "A real collaboration; theory meeting execution. Questions meeting answers. Curiosity meeting capability."

"Sir, what exactly IS nuclear engineering? What do you actually do?"

The question came from a Class 10 student. It was the first of hundreds of such pertinent queries from inquisitive and intelligent visitors. Sh P. Padmanabhan Padmanabhan, our Associate Director (Engineering) Paddy sir would answer with encyclopedic patience.

"Is India actually working on nuclear technologies, or just buying from abroad?"

This assumption surfaced repeatedly. Paddy, sir, would pull up refurbishment schematics. "See this primary circulation piping? It carries reactor coolant at 300°C under extreme pressure. When these pipes need replacement in ageing plants, international suppliers quote lengthy timelines and high costs. We engineered indigenous solutions, designed, created mocks, fabricated, mapped each unit, and installed by Indian engineers. Not licensed. Not imported. First of its kind in Asia."

Students' eyes widened. We're doing this.



"But what IS primary circulation piping?"

"Think of it as the reactor's circulatory system," Paddy sir explained. "If it fails, the reactor can't cool itself. Precision matters—in millimeters, under extreme nuclear radiation., at high temperatures."

A girl from NMIMS pushed deeper: "How do you work in radioactive environments?"

Twenty minutes later: mockups, remote handling, radiation shielding, precision welding. She took notes. Asked for follow-ups. Challenged assumptions.

Girls consistently dug deeper, stayed longer, asked tougher questions.

"Are Indian companies really deep in this, or just BARC?"

"Both," Paddy sir replied. "BARC does phenomenal R&D. But execution—of complex engineering like refurbishing of ageing plants, that's increasingly private sector, developing capabilities through indigenous problem-solving."

"How do we compare globally?" a BITS student asked.

"That's why meaningful dialogues with partners like Westinghouse, EDF, Framatome, Nukem Technologies and Rosatom matter," Paddy sir said thoughtfully. "When global leaders express interest in knowledge exchange and mutual learning, it validates that India has developed capabilities worth discussing at the highest technical levels."

The Collaborations That Emerged

Professor Vikram Vishal from IIT Bombay saw something deeper. After extended discussions, he proposed structured workshops and complete project walkthroughs with students to give them a real-world perspective beyond textbooks. "Your team's experience combined with our



academic framework—that creates the learning students desperately need,” he said.

The first workshop is scheduled soon at IIT Bombay, where we’ll walk through the entire refurbishment project—from engineering challenges to execution realities.

The Moment of National Pride

When the Army team visited, their response was visceral.

“This is what makes us proud,” one officer said, studying the indigenous refurbishment process. “Home-grown solutions. Indian engineering solving critical challenges without external dependence. When we think about national security, energy security through indigenous capability—this is foundational.”

It was a reminder: nuclear engineering isn’t just technical—it’s strategic sovereignty.

“What’s the future of nuclear in India?”

“Net Zero 2047 requires massive clean baseload power,” Paddy sir explained. “We’ll need thousands of engineers over 30 years.”

“Why choose nuclear over AI or fintech?” an IIT student challenged.

“Because securing a nation’s energy backbone is civilizational work.”

Neerja Landge, the eighth grader who won our quiz, captured it perfectly: “If we don’t, we’ll keep depending on others. That’s not the India we want.”



Saurabh asked if small-town students belonged. Ritisha challenged us on communication. Girls from Elite Public School, NMIMS, B.K. Birla College stayed longest, questioned hardest.

What Comes Next: A Movement, Not an Event

What Narayana Murthy envisioned in his inaugural address—that academia-industry platform for genuine capability building—we saw it unfold in real-time. Faculty proposing collaborations. Army officers recognizing strategic value. Students demanding deeper engagement.

India is adding new reactors to meet Net Zero commitments. Building them is one challenge. But maintaining them—keeping decades-old facilities operating safely, efficiently, reliably—that requires a different kind of engineering depth. And Indian engineers are ready for this challenge.

CORE’s commitment extends beyond our projects:

Immediate: IIT Bombay workshop—complete project walkthrough for students

Expanding: Connecting with BITS, NITs, and top engineering colleges nationwide

Long-term: Building a generation of nuclear engineers who see this field not as legacy infrastructure, but as revolutionary capability that secures

the nation’s future

Because self-reliance isn’t just about building new reactors—it’s about Indian engineers mastering the complete lifecycle: design, construction, operation, maintenance, refurbishment, and innovation.

When we solve problems, others said required foreign expertise, we’re not just completing projects. We’re proving a generation’s capability. We’re building a field. We’re securing a nation.

An Invitation to Build the Future

To every student who stopped at our pavilion, asked tough questions, stayed curious—this conversation continues.

To every college we haven’t reached yet—we’re coming. Let’s collaborate.

To every young engineer wondering if this field has space for them—it doesn’t just have space. It needs you.

The workshops begin. The collaborations deepen. The movement grows.

India’s energy future isn’t being built by the generation before you. It’s being built by you—starting now.

A Decade of Running: From a Beginner to an Endurance Athlete

By Rajendra Senapati, CFO

In January 2015, I stepped into the world of running without any prior experience, knowledge, or guidance. My 1st ever half marathon in Ahmedabad was a leap of faith—I had no idea about pacing, hydration, or training. Yet, I pushed through and crossed the finish line in 2 hrs 45 mins. That race unknowingly became the foundation of a journey that would redefine my life.

From Health Struggles to Finding a Path

Since 2004, I have been living with diabetes, dependent on medication 3 times a day, with a lot of food restrictions. While I managed my condition with prescriptions, I knew I needed a bigger change, something that would not just control my health but transform it.

I moved to Pune in 2016, and things took a positive turn. I joined Free Runners, a running group that became my support system. Under the guidance of Jitendra Nair Sir, Badrinath Sir, and Dr Nitin Sir, I learned the fundamentals of running, proper breathing techniques, posture & endurance strategies. With consistent effort and structured training, I started improving & running slowly became an integral part of my life.

From a Single Race to 75+

Over the past 10 years, my journey has been nothing short of incredible:

- 75+ half marathons, each one a new experience, teaching me patience and resilience.
- 8 full marathons, proving to myself that limits exist only in the mind.

- 2 ultra-marathons (50km), challenging my endurance beyond what I once thought possible.

The Biggest Victory of All

I no longer take any medication for diabetes or blood pressure. Running, combined with a disciplined lifestyle, has helped me reclaim my health in a way I never imagined.

A New Chapter: Freedom & Passion

In 2019, I made another life-changing decision: I left my corporate job & started my own consulting and auditing practice in Pune. This shift gave me the flexibility to fully embrace my passion for running. With more control over my time, I could train consistently, explore new challenges & push my limits even further.

The Next Big Goal: Ironman Training Begins

Now, as I celebrate 10 years of running, I am ready for the next adventure, training for the Ironman.

This endurance race, which combines swimming, cycling & running, is a new challenge that excites me. The journey ahead will be tough, but if the past decade has taught me anything, it's that perseverance always pays off.

As I look back, I feel immense gratitude for that first race in Ahmedabad, for the mentors and friends who have supported me & for the strength that running has given me. To anyone wondering whether they can start, my message is simple: Take that first step. Your journey might just change your life.

Here's to the next decade of pushing limits, chasing dreams & embracing the endless road ahead. See you at the finish line!



Forged in Discipline: *Five Days of Gasshuku*

By Mohan Singh, E.D. Corporate Strategy & People Management, HRD

Every individual carries certain sports, hobbies, interests, or passions from childhood; some stay with us for life, while others evolve with time. For me, sports have always been an inseparable part of my journey. From a very young age, I was deeply enthusiastic about both outdoor and indoor sports, which helped shape my physical energy, discipline, and mindset.

At the early age of 14, I discovered my true calling in combat sports, particularly martial arts (Karate & MMA). What began as an interest soon became my core strength and lifelong passion, driven by three simple yet powerful objectives: maintaining good health & discipline, synergy with people around, and developing strong self-defence skills. This dedication led me to earn my Black Belt in Karate at the age of 18.

Martial arts have remained a constant companion throughout my life. I continued to practice and impart martial arts training even after joining the corporate world at the age of 21. Over the years, this discipline has given me far more than physical fitness; it has instilled focus, discipline, resilience, confidence, humility, and a strong balance between personal and professional life. These values continue to guide my decisions, leadership style, and approach to challenges at work and beyond.

To stay updated and offer the best possible training to my student community, I continue to train rigorously every day. With a sense of responsibility towards society, I also established a full-fledged martial arts and fitness training centre close to my home.



Here, I spend quality time coaching and learning from students across all age groups, from young children as young as 4 years to adults over 60 years. Training them has been a deeply enriching experience, as it allows me to prepare individuals not only for physical fitness but also for facing difficult situations in life with confidence, discipline, and mental strength.

To further enhance my own skills and remain aligned with global training standards, I travel abroad every year to train under my Grandmasters and visit peer training centres across different countries. I strongly believe in “walking the talk,” and therefore actively participate in world championships held across various continents along with our team of the best athletes. These experiences constantly push me beyond my comfort zone and help me evolve as a learner, coach, and leader.

Recently, I had the privilege of attending an intensive 5-day advanced martial arts training program in South Africa from 12th to 17th November 2025. In Japanese, this kind of focused residential training is known as a “Gasshuku” which means learn and grow together.

During Gasshuku, I got the opportunity to learn under the guidance of my Grandmaster, Shihan Chris Thompson (10th Degree Black Belt).

We trained for nearly six hours every day. The sessions were centered on understanding advanced techniques, body dynamics, refining combat strategies, and deepening our mental discipline. This experience was both physically demanding and mentally enriching, reinforcing the importance of continuous learning, global exposure, and humility in mastery.

Currently, I hold a 6th Degree Black Belt in Shukokai Karate and am working towards achieving my 7th Degree in 2028. My next major goal is to participate in the World Championship in the UK in June 2027. Such goals keep me energized, focused, and committed to self-improvement.

I strongly believe that every individual must nurture at least one passion or hobby that truly energizes them. When pursued sincerely, it becomes a powerful tool to manage stress, resolve complex challenges, and maintain balance, both in personal life and professional careers.



LIFE AT CORE

CORE Sports Fest - *Beyond Work, Into Team Spirit*

By Team HR

At CORE, Sports Fest isn't a pause in our work—it's where our spirit trains, our bonds strengthen, and our best work begins. Planned with intent and driven by participation, the fest brings people together across functions, roles, and experience levels. It creates space for movement, laughter, and shared energy—reminding everyone that high-performing teams thrive on balance.

Chess - Thinking Three Moves Ahead

The Chess matches introduced the fest with calm intensity and deep focus. Each game reflected strategic thinking, patience, and respect for the opponent—qualities that mirror CORE's professional culture. The silence around the boards spoke volumes, as colleagues tested not just skill, but composure and foresight.



Carrom - Skill, Smiles, and Shared Moments

Carrom added a lighter rhythm to the Sports Fest. Friendly competition, quick reactions, and plenty of laughter filled the space around the boards. Teams bonded over perfect strikes and near misses, proving that some of the best workplace connections are formed when competition meets genuine fun.

Table Tennis - Speed with Spirit

Table Tennis brought fast reflexes and high energy into play. Every rally drew cheers, every point sparked excitement. Players pushed their limits while spectators fueled the momentum, turning each match into a moment of collective enthusiasm and healthy challenge.



Badminton - Endurance, Agility, Determination

Badminton showcased pure athletic energy. Long rallies, sharp smashes, and determined footwork kept the matches intense and engaging. What stood out most was the encouragement exchanged across courts—teammates and opponents alike, motivating each other to give their best.

Tele-Matches - When Collaboration Becomes a Game

The tele-matches truly captured the spirit of togetherness. Loud cheers, synchronized effort, and shared excitement transformed these games into powerful team-building moments. Boundaries dissolved, communication flowed, and collaboration came alive reinforcing that teamwork is strongest when it's enjoyed together.

The Momentum Continues

With **Cricket and Swimming** lined up next, the CORE Sports Fest is far from over.

The excitement continues to build, participation grows stronger, and the sense of belonging deepens with every game played.

For anyone new to CORE, the Sports Fest is a glimpse into who we are—a workplace that values energy, connection, and people just as much as performance. Here, teams don't just work together. They play together, grow together, and celebrate the journey as one.

“The CORE Sports Fest is a reminder that wellbeing, collaboration, and engagement are not add-ons—they are central to how we work and win together.”

- Mohan Singh, E.D. Corporate Strategy & People Management - HRD



Explore. Upskill. Move Forward, with CORE

By Team HR

At CORE Energy Systems Limited, learning isn't something you do once in a while. It's something we actively encourage, support, and invest in, because the challenges we solve demand continuously evolving skills.

That's why we've strengthened our learning ecosystem with two focused initiatives that put growth directly in the hands of our people.

Continued Education Program (CEP)

The Continued Education Program is designed for those who want to go deeper, whether through higher education, professional certifications, or advanced technical and management programs.

CEP supports employees who are ready to expand their capabilities, prepare for future roles, and build long-term expertise aligned with CORE's evolving business needs. It's structured, transparent, and built around shared commitment, your growth, supported by the organization.

“

“The CEP made it possible for me to pursue a certification I had been planning for years. What really stood out was the support, from my manager to HR, every step of the way.”

- CORE Team Member

”

5K Learning Boost - Small Learning, Real Impact

Not every learning journey needs to be long-term. Sometimes, a short course can make a big difference.



With the 5K Learning Boost, every employee receives an annual ₹5,000 allocation to pursue certified short-term courses, technical, functional, behavioural, or domain-specific. It's simple, flexible, and designed to help sharpen the skills that matter in our day-to-day work.

Why This Matters at CORE

These initiatives reflect how we see learning, not as a checkbox, but as a shared responsibility and a strategic advantage. Knowledge gained is meant to be applied, discussed, and translated into better outcomes for our teams, projects, and clients.

If you've been thinking about upskilling, exploring a new domain, or strengthening your current expertise, now is the time.

At CORE, we don't just build complex energy systems; we build careers that keep moving forward.



New Talent



Anita Salla

Ashish Raut

Dikshay Chavan

Manoj Kumar Das



Nikhil Pawar

Omkar Khawnekar

Prajwal Mishra

Pratik Patil



Sandhya Sirsat

Sandip Girnar

Vivek Shelar

Yogesh Farad



Innovation Award

World Nuclear Exhibition, Paris 2025

