



**NORMI  
RESEARCH FOUNDATION**



**WORKSHOP – 2025 ONLINE MODE**

**NET  
ZERO  
2070**

**"PATHWAYS TO NET ZERO & ESG: A COMPREHENSIVE  
CAPACITY BUILDING PROGRAM"**

**A 6-day Online Skill building Certificate Program from**

**17<sup>th</sup> to 22<sup>th</sup> January, 2025**



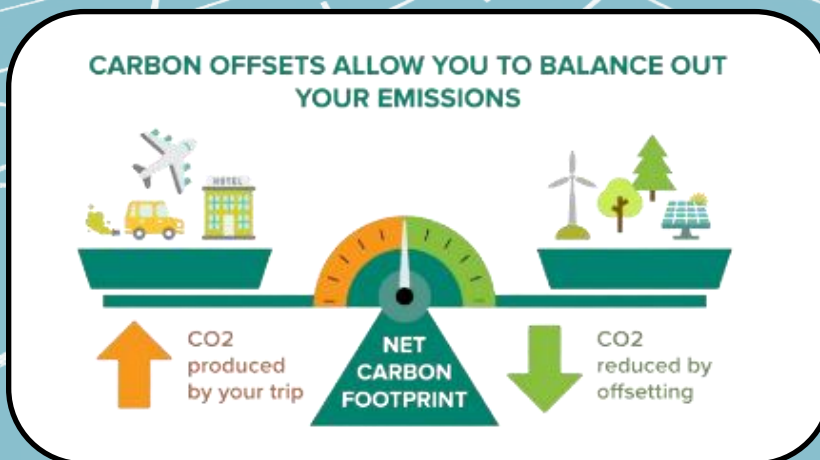
**"17 MILLION NEWER JOBS IN CARBON MARKETING & ESG.**

**2.5 MILLION JOBS ANNUALLY IN INDUSTRIES AND ALL SECTORS WORLDWIDE"**

# Exploring



## Net Zero Foundations Net Zero Job Opportunities



**80% OF GLOBAL BUSINESSES INCORPORATING NET ZERO STRATEGIES INTO THEIR CORE OPERATIONS**

**BY 2030, OVER 90% OF MAJOR INDUSTRIES, RESHAPING TRADITIONAL BUSINESS MODELS WITH NET ZERO**

**60% OF FORTUNE 500 COMPANIES HAVE COMMITTED TO NET ZERO TARGETS, INDICATING A FUTURE WHERE SUSTAINABLE PROCESSES WILL DOMINATE CORPORATE STRATEGIES (\$44 TRILLION BY 2050)**

Source: WEF, Global Reportings

### About the Event:

The workshop on Net Zero Carbon & ESG aims to equip educators and industrial leaders with essential skills to tackle the pressing challenges of achieving a sustainable life for the future generation. The Net Zero Decarbonisation & ESG material mapping is going to revolutionize the global scenario, as in next 10 years world-wide the markets and jobs shall be defined by 50 % of decarbonisation by 2035 and a complete carbon neutrality by 2050. The mandate by Indian government has been extended to 50 % of the decarbonisation by 2038 and complete Carbon Neutrality by 2070. The Universities, colleges and industries requires capacity building for job market which has an enormous future potential, as there shall be 17 million jobs in carbon marketing & ESG and approx. 2.5 million newer jobs annually for the betterment of the future generations in terms of climate recovery and sustainability.

**Key objectives:** It includes fostering and capacity building for newer compliances of all industrial sectors in terms of developing manpower and capabilities for reducing GHGs and related calculations, mandatory preparation of BRSR reports, ESG material mapping, green credits, carbon credits, circular economy and supply chain management.

# WHAT IS NET ZERO

Net Zero refers to balancing greenhouse gas emissions with their removal from the atmosphere. Climate change has spurred a global push for Net Zero, compelling industries and governments to reduce or offset emissions. This transformation will reshape economies, jobs, and processes across sectors, driving demand for skills in sustainability, carbon management, and clean technologies.

India, one of the world's fastest-growing economies, the commitment to Net Zero by 2070 will revolutionize industries like energy, manufacturing, and agriculture. To fully leverage its demographic dividend, India must develop a skilled workforce with Net Zero expertise.

# UPCOMING ERA OF NET ZERO



## Gain Skills to Find your Carbon Emissions & Plans to Reduce Them

**Learn To:** Calculate GHG emissions, Life Cycle Assessment (LCA), Blending circular economy in business, distinguish sustainable vs. non-sustainable supply chain practices, enhancing green finance by switching towards green credits, developing energy efficiency plans, identify ESG reporting gaps, review global net neutrality plans, use AI and predictive modeling for net zero optimization, design low-emission food choices and engage in net neutral practices at Refinery, Energy & Automobile Sectors.

## EVERY MINUTE COUNTS: HOW POPULATION GROWTH DRIVES THE RACE TO NET ZERO

### ENERGY WE CONSUME EVERY MINUTE

36.4 Billion Tons of CO2 Annually

### EMISSIONS FROM EVERY VEHICLE ON THE ROAD

2.4 Billion Tons of CO2 Annually

### EMISSIONS FROM INDUSTRY EVERY MINUTE

1.2 Billion Tons of CO2 Annually

### FEEDING THE PLANET: EMISSIONS FROM AGRIWASTE

1.6 Billion Tons of CO2 Annually

### EMISSIONS BURDEN OF LANDFILLS

1.4 Billion Tons of CO2 Annually

### BUILDING TOMORROW: EMISSION FROM URBAN EXPANSION

1.5 Million Acres / year

- JOB Prediction**
- 600 K Energy Management, Design
  - 300 K Transport Planner & Sustainable Policy Makers
  - 500 K Carbon Management Specialist
  - 200 K Agricultural Consultant
  - 400 K Urban Planner, Net Zero Designing experts



From A to Z, every process—from banking to last-mile delivery—will be modified toward achieving Net Zero in the upcoming era. This comprehensive approach will transform industries, ensuring sustainability across all sectors.

# Session Outline



## DAY - 1

<b>Date/Time</b>	<b>Friday ; 17.01.2025</b>	
<b>09:30 TO 10:00 AM</b>	<b>INAUGURATION</b>	
<b>AGENDA-1</b>	<b>From Commitment to Career: Exploring Job Opportunities in the Net Zero Transition</b>	
<b>EXPERT-1</b>	 <p><b>Prof. C. S. Dubey</b> Executive Director, NORMI Research Foundation, Professor Emeritus, Sri Sri University, Ex-VC, K R Mangalam University, Ex-VC, Sanskriti University, Ex-Dean Science Faculty, Delhi University, Ex-Professor and Head, Department of Geology, University of Delhi, Expert Member, EAC Industries &amp; Expert Member River Valley Projects, Ministry of Environment and Forests, GoI, NRDMS, Ministry of Science and Technology, GoI.</p>	<p><b>Expertise:</b> Net Zero Carbon, Green Credits, Green Finance, EIA/EMP &amp; Blue Water, Ground Water &amp; Geo-Physics, Geo-Spatial Technology, Environmental policy.</p>
<b>10:00 TO 11:00 AM</b>	<b>Title 1</b>	<b>Navigating The Journey to Net Zero: Global Commitments and Local Actions</b>
<b>11:00 TO 11:15 AM</b>	<b>TEA BREAK</b>	
<b>11:15 TO 12:15 PM</b>	<b>Title 2</b>	<b>Exploring Career Opportunities in the Net Zero Transition</b>
<b>12:15 TO 01:15 PM</b>	<b>ARTICLE DISCUSSION/HANDSON ACTIVITY</b>	
<b>01:15 TO 02:15 PM</b>	<b>LUNCH</b>	
<b>AGENDA-2</b>	<b>Introduction To Net Zero: Procuring green Strategies and Solutions to Automotive Industries</b>	
<b>EXPERT-2</b>	 <p><b>Prof. Nandini. N.</b> Visitors - President of India, Professor, Bangalore University, Nominee for Central Universities, Ex- Chairperson, Dept. of Environmental Science, Ex-Member MOEF&amp;CC, GoI, Member BMC, BBMP, Bengaluru, GoK, Ex-Member Central Laboratory, Governing Council, Member, KSHEC, GoK, Bengaluru.</p>	<p><b>Expertise:</b> Environment and Climate Sciences, Toxicology, Solid Waste Management, Hydrology, Aerobiology, Microbiology.</p>
<b>02:15 TO 03:15 PM</b>	<b>Title 1</b>	<b>Green strategies for Decarbonization</b>
<b>03:15 TO 04:15 PM</b>	<b>Title 2</b>	<b>Net Zero Solutions to Automotive Industries in Combating Climate Change</b>
<b>04:15 TO 04:30 PM</b>	<b>TEA BREAK</b>	
<b>04:30 TO 05:30 PM</b>	<b>TECHNICAL DISCUSSION &amp; ASSESSMENT</b>	

# DAY - 2



<b>Date/Time</b>	<b>Saturday; 18.01.2025</b>	
<b>09:30 TO 10:00 AM</b>	<b>SESSION INAUGURATION</b>	
<b>AGENDA-3</b>	<b>Integrating Green Supply Chains with Circular Economy Principles: Strategies for Implementation</b>	
<b>EXPERT-3</b>	 <p><b>Prof. Ajay Deshpande</b> Adjunct Professor, IIT Bombay, Former Chairman, NGT Hazardous Waste Compliance Committee, Member, ADB Compliance Review Panel (2017-2022), Held senior roles in MPCB and SRDC, Worked with AIIB and UN-ESCAP.</p>	<p><b>Expertise:</b> Circular Economy, Economic Instruments as policy intervention for environmental protections, ESG, Extended Producer Responsibility, Policy Approach for environmental restoration, Environment, Energy &amp; Natural Resources</p>
<b>10:00 TO 11:00 AM</b>	<b>Title 1</b>	<b>Integrating Green Supply Chains with Circular Economy Principles: Strategies for Implementation</b>
<b>11:00 TO 11:15 AM</b>	<b>TEA BREAK</b>	
<b>11:15 TO 12:15 PM</b>	<b>Title 2</b>	<b>Green Governance: Navigating Rules, Regulations, and Eco Policies</b>
<b>12:15 TO 01:15 PM</b>	<b>ARTICLE DISCUSSION/HANDSON ACTIVITY: GHG Identification, Circular Economy Integration, Policy Discussion</b>	
<b>01:15 TO 02:15 PM</b>	<b>LUNCH</b>	
<b>AGENDA-4</b>	<b>Sustainability ESG and Compliance data Generation Analysis- A Net Zero direction</b>	
<b>EXPERT-4</b>	 <p><b>Mr. Ravi Mishra</b> CEO &amp; Director, Enva Plax Pvt. Ltd. Former Managing Partner, ShivTriv Tradevise LLP., Former CEO, AmeriBlend Inc. (North American Operations), Extensive experience in procurement, finance, and international business.</p>	<p><b>Expertise:</b> BRSR, ESG, Global Operations &amp; Management, Procurement &amp; Supply Chain, Finance &amp; Business Strategy, Trade &amp; Commerce</p>
<b>02:15 TO 03:15 PM</b>	<b>Title 1</b>	<b>Data Generation and Assimilation for Sustainability and ESG Compliance</b>
<b>03:15 TO 04:15 PM</b>	<b>Title 2</b>	<b>Data Analysis for Achieving Net Zero Goals</b>
<b>04:15 TO 04:30 PM</b>	<b>TEA BREAK</b>	
<b>04:30 TO 05:30 PM</b>	<b>TECHNICAL DISCUSSION &amp; ASSESSMENT Answering Sustainability Reports, Creating Value Chain Processes</b>	

# DAY - 3



<b>Date/Time</b>	<b>Sunday; 19.01.2025</b>	
<b>09:30 TO 10:00 AM</b>	<b>SESSION INAUGURATION</b>	
<b>AGENDA-5</b>	<b>Empowering Net Zero Strategies through Green Energy Innovations</b>	
<b>EXPERT-5</b>	<p><b>Mr. Prashant Kokil</b>                  Head of Corporate Environment and Climate Change, Chief Sustainability Officer (CSO) The Tata Power Company Ltd., Visiting Faculty at Mumbai University's Garware Institute of Career Education &amp; Development., SP Jain Institute of Management and Research for CSR activities.</p>	<p><b>Expertise:</b>                  Sustainability Leadership, Climate Change Strategy, Clean Development Mechanism (CDM), Corporate Social Responsibility (CSR), Carbon Pricing, Environmental Management, Sustainability Training, Climate Impact Management, Green Initiatives, Sustainable Development</p>
<b>10:00 TO 11:00 AM</b>	<b>Title 1</b>	<b>Green Energy Introduction: Driving Forward Net Zero Progress</b>
<b>11:00 TO 11:15 AM</b>	<b>TEA BREAK</b>	
<b>11:15 TO 12:15 PM</b>	<b>Title 2</b>	<b>Renewable Energy Contribution in Net Zero Green Energy Transition</b>
<b>12:15 TO 01:15 PM</b>	<b>ARTICLE DISCUSSION/HANDSON ACTIVITY</b> Industry Certifications, Energy Efficiency Plans, Scope Identification Exercises	
<b>01:15 TO 02:15 PM</b>	<b>LUNCH</b>	
<b>AGENDA-6</b>	<b>Data-Driven Sustainability: The Role of AI and ML in Achieving Net Zero Carbon</b>	
<b>EXPERT-6</b>	<p><b>Dr. Prerna Mahajan</b>                  Professor, Jain (Deemed-to-be University), Bengaluru, AI and Business Intelligence Analyst, Ph.D., Banasthali Vidyapith, M.Phil., MCA, M.Tech., UGC-NET.</p>	<p><b>Expertise:</b>                  Machine Learning, Deep Learning, Natural Language Processing (NLP), Data Science, Research and Publication, Python, AI tools, Nvidia Instructor.</p>
<b>02:15 TO 03:15 PM</b>	<b>Title 1</b>	<b>Leveraging AI and ML for Carbon Footprint Reduction</b>
<b>03:15 TO 04:15 PM</b>	<b>Title 2</b>	<b>Predictive Analytics and Decision-Making for Sustainable Practices</b>
<b>04:15 TO 04:30 PM</b>	<b>TEA BREAK</b>	
<b>04:30 TO 05:30 PM</b>	<b>TECHNICAL DISCUSSION &amp; ASSESSMENT</b> Prediction & Optimization based Projects, Sector based Tools Creation	

# DAY - 4



<b>Date/Time</b>	<b>Monday; 20.01.2025</b>	
<b>09:30 TO 10:00 AM</b>	<b>SESSION INAUGURATION</b>	
<b>AGENDA-7</b>	<b>ESG Reporting - Role of Transparency and Sustainability in BRSR</b>	
<b>EXPERT-7</b>	<b>Dr. Ajay Garg</b> Corporate Lawyer and Registered Valuer at AGB & Partners, Diversified, Professional, Effective Speaker, Technical Author, Mentoring 56+ Indian Startups	<b>Expertise:</b> ESG Reporting, Transparency, Sustainability BRSR Compliance, Corporate Accountability, Responsible Governance, Stakeholder Engagement, Environmental Impact, Social Responsibility, Sustainable Development
		
<b>10:00 TO 11:00 AM</b>	<b>Title 1</b>	<b>Supply Chain Vs. Value Chain: Discussion over attributes of BRSR Core and their Role in sustainability and accountability.</b>
<b>11:00 TO 11:15 AM</b>	<b>TEA BREAK</b>	
<b>11:15 TO 12:15 PM</b>	<b>Title 2</b>	<b>Impact of Distribution Channels and Responsible Sourcing on Sustainability Practices: Scope of Professional Opportunities in ESG Reporting</b>
<b>12:15 TO 01:15 PM</b>	<b>ARTICLE DISCUSSION/HANDSON ACTIVITY</b> <b>Creating ESG Reports, Understanding Accountability &amp; Materiality Issues</b>	
<b>01:15 TO 02:15 PM</b>	<b>LUNCH</b>	
<b>AGENDA-8</b>	<b>Achieving Net Zero Carbon Goals: Leveraging Energy Efficiency as a key tool to achieve Net Zero</b>	
<b>EXPERT-8</b>	<b>Mr. S. K. Pati</b> Former Chief of Energy, Environment, and Climate Change, sustainability, Consultant for Tata Steel, Former Board Member, Bhubaneswar Power Private Limited, SME Consultant at E&Y.	<b>Expertise:</b> Energy Transition, Decarbonization, Sustainability Consulting, Energy Efficiency, Environmental Compliance, Strategic Governance, Renewable Energy Solutions, Sustainable Development, Policy Implementation, Stakeholder Engagement
		
<b>02:15 TO 03:15 PM</b>	<b>Title 1</b>	<b>Energy Efficiency as a Key Driver for Net Zero Carbon (NZC) in the Steel Industry</b>
<b>03:15 TO 04:15 PM</b>	<b>Title 2</b>	<b>Sustainability based Energy Optimization: Case Studies on Reducing Emissions in Power Sector</b>
<b>04:15 TO 04:30 PM</b>	<b>TEA BREAK</b>	
<b>04:30 TO 05:30 PM</b>	<b>TECHNICAL DISCUSSION &amp; ASSESSMENT</b> <b>Steel Industry Transition Issues, Case Studies, Energy Intensity Threshold Stats</b>	

# DAY - 5



<b>Date/Time</b>	<b>Tuesday; 21.01.2025</b>	
<b>09:30 TO 10:00 AM</b>	<b>SESSION INAUGURATION</b>	
<b>AGENDA-9</b>	<b>Net Zero Directed Energy Conservation Measures in Refineries</b>	
<b>EXPERT-9</b>	 <p><b>Mr. R. K. Jha</b> Former Executive Director &amp; Refinery Head, Indian Oil Corporation, Barauni Refinery</p>	<p><b>Expertise:</b> Refinery Operations, Safety Management, Carbon Emission Reduction, Green Credit Programs, Sustainability, Environmental Compliance, Pollution Control, Operational Efficiency, Energy Transition, Industry Leadership</p>
<b>10:00 TO 11:00 AM</b>	<b>Title 1</b>	<b>Technologies and Innovations for Energy Efficiency in Refineries</b>
<b>11:00 TO 11:15 AM</b>	<b>TEA BREAK</b>	
<b>11:15 TO 12:15 PM</b>	<b>Title 2</b>	<b>Case Studies of Successful Energy Conservation Measures in Refineries</b>
<b>12:15 TO 01:15 PM</b>	<b>ARTICLE DISCUSSION/HANDSON ACTIVITY</b> <b>Creating Route map in Hard to Abate Sectors, Research Ways to Procure</b>	
<b>01:15 TO 02:15 PM</b>	<b>LUNCH</b>	
<b>AGENDA-10</b>	<b>Viksit Bharat Abhiyan: Catalyzing Carbon Market Growth</b>	
<b>EXPERT-10</b>	 <p><b>Prof. P. B. Sharma</b> PhD (Uni. of Birmingham, UK), VC Amity University Gurgaon, Founder VC-Delhi Technological University (DTU) and RGPV, Former President, Association of Indian Universities (AIU), Former Professor, IIT Delhi and President, Engineering Science Division of Indian Science Congress, President, World Academy of Higher Education and Development, W-AHEAD.</p>	<p><b>Expertise:</b> Expert in Mechanical Engineering, Gas Turbine Technology, Nano Science, New Energy, Environment Tech, Knowledge &amp; Innovation Mgmt. Educational Policy Advocacy, Quality Assurance in Education, Academic Excellence</p>
<b>02:15 TO 03:15 PM</b>	<b>Title 1</b>	<b>Net Zero Strategy: Exploring Opportunities, Confronting Challenges for Developing Countries</b>
<b>03:15 TO 04:15 PM</b>	<b>Title 2</b>	<b>The way forward: An action plan for all stakeholders</b>
<b>04:15 TO 04:30 PM</b>	<b>TEA BREAK</b>	
<b>04:30 TO 05:30 PM</b>	<b>GROUP DISCUSSION (Industry and Academia) &amp; ASSESSMENT</b>	
<b>DAY 6</b>	<b>Event Closing Ceremony &amp; Final Assessment</b>	



Targeting



Practicing



Outcome Attainment/  
Certification



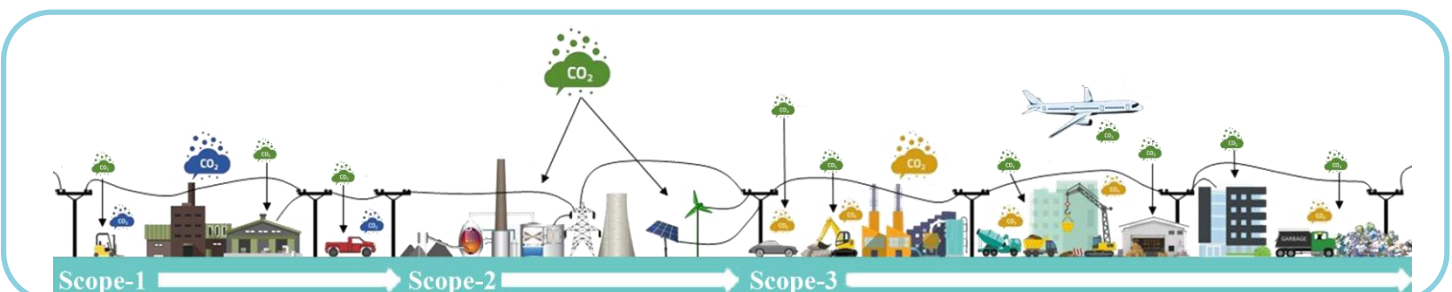
# PEDAGOGY FRAMEWORK FOR THE MDP



- **Research embedded, Collaborative and Outcome-Based Teaching:** Engaging participants through existing research, techniques and experimental methodologies available, role of teamwork, and clear learning outcomes to encourage knowledge circulation.
- **Real-Life Based Examples:** Integrate case studies from various sectors to illustrate successful sustainable practices and policies, providing contextual relevance.
- **Engaged in Software, Demonstrations and Presentations:** Include online demos of sustainable practices, products and presentations for case-study discussions, fostering peer feedback.
- **Research Article Review Discussions:** Discussing key research articles for review and facilitate group discussions to critique findings and link theory to practice.

## KEY LEARNING OUTCOMES

<b>Understanding Net Zero</b> Develop a clear understanding of the Net Zero concept and its significance for global sustainability.	<b>Global and National Strategies</b> Analyze the impact of international commitments, like the Paris Agreement, on India's policies for achieving Net Neutrality by 2070.	<b>Government Initiatives</b> Explore government programs such as Eco Mark, Eco Labeling, and Green Credit, and their role in advancing Net Zero goals.	<b>Practical Case Studies</b> Review real-world case studies from industry leaders showcasing best practices and innovative solutions to Net Zero challenges.
<b>Research &amp; Funding Opportunities</b> Identify funding and Research avenues for faculty and Ph.D scholars in sustainability projects.	<b>Skills for Implementation</b> Acquire practical skills and frameworks to implement sustainable practices within institutions, promoting Environmental responsibility.	<b>Collaboration and Networking</b> Build networks with industry experts and peers to foster collaboration on Net-Neutral initiatives.	<b>Innovative Solutions for Students</b> Inspire students to participate in solution-oriented projects and entrepreneurial ventures focused on sustainability and climate action.



# TARGET AUDIENCE






## ➤ Education Sector:

- Academicians, Faculty Members, Professors, Vice Chancellors, Registrars, and IQAC Departments.
- University leaders, Multidisciplinary Ph.D./PG, Research Scholars.

## ➤ Industry Sector:

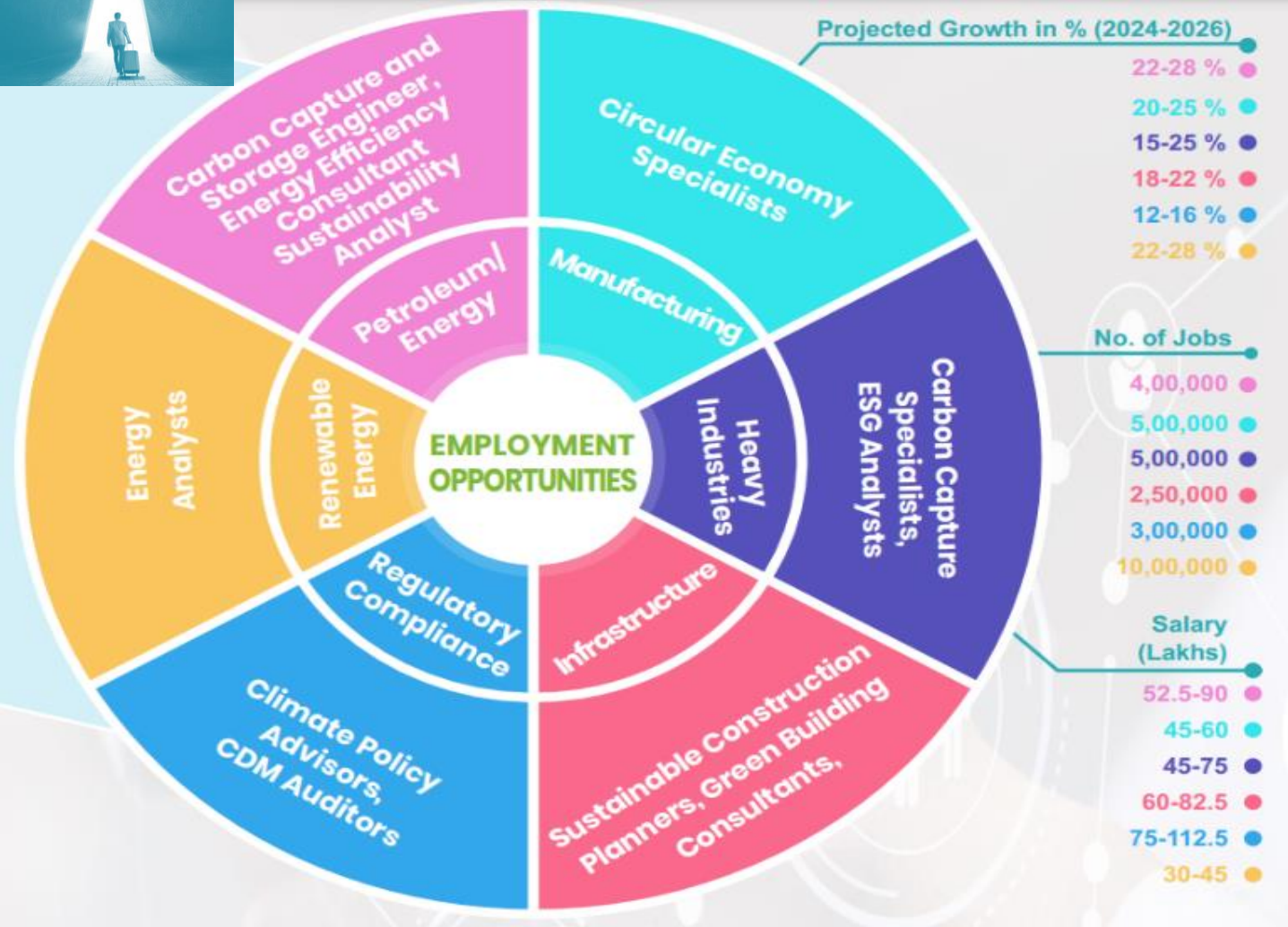
- Business leaders, sustainability officers, Corporate Executives (from industries such as energy, mining, petroleum, cement, Executives from manufacturing sectors looking to align their business strategies with Net Zero goals and ESG compliance).
- Environmental Consultants and Sustainability Experts, Leaders and managers from organizations focused on climate action, sustainability, and social wellbeing, seeking to implement strategies aligned with SDG goals. Young Professionals and Graduates, Government Officials and Policy Makers.

# REGISTRATION INFORMATION

NATIONAL REGISTRATION FEES (inclusive of 18% GST)	INTERNATIONAL REGISTRATION FEES
Education Sector: ₹5000 Industry Sector & Others: ₹8,000	Education Sector: \$150 Industry Sector & Others: \$200
PAYMENT QR CODE	REGISTRATION FORM
	 <p>Either Click or Scan</p> 

1. Fill out Registration Form → Upload Payment Receipt in Registration form → Will be added to What's App Group for further details.
2. Participant Certification: Certification will be provided upon submitting feedback, meeting 80% attendance, and passing the final assessment on the 6th day.
3. Meeting Platform: ZOOM Online Meeting will be Used.
4. **Account Transfer Details:**  
Account Number: 921020043101821,  
Axis Bank IFFCO Chowk Gurugram,  
IFSC CODE: UTIB0003683

# JOB OPPURTUNITIES



## #1 Economic Growth

Net Zero companies see an 18% revenue boost.

## #2 Global Market Leadership

75% of consumers prefer eco-conscious brands, prioritizing Net Zero market presence.

## #3 Investor Confidence

ESG-focused funds hit \$2.7 trillion in 2022, attracting more investments to sustainable businesses



## #4 Competitive Edge

Access to a \$12 trillion market in sustainable products and services by 2030 for Net Zero adopters.

## #5 Global Partnerships

Net Zero-focused companies form strategic alliances, fostering international cooperation for a greener future



## ABOUT US



**NORMI Research Foundation** is a non-government trust committed to driving sustainability, combating climate change, and promoting social wellbeing. As a registered trust by law and listed on the governmental **NGO Darpan**, we are recognized for our dedication to making a difference. As an advanced, technology-driven research institute, we are powered by a dedicated team of experts who work tirelessly to develop carbon, odour and eco-friendly related net zero solutions for pressing environmental challenges.

Our mission is to become a pioneering global education, training, and research hub in the fields of Green Credit, Net Zero Carbon, and Odour Management. In addition to our cutting-edge research and public awareness initiatives, NORMI Research Foundation is dedicated to supporting the **Sustainable Development Goals (SDGs) for 2030**. We particularly focus on providing effective solutions for odour mitigation and carbon reduction, ensuring a sustainable future for all.

**Technical Strength:** NORMI Research Foundation (NRF) is backed by a diverse and highly qualified Governing Body, including eminent scholars from IIT Bombay, Bangalore University and similar institutes of repute, as well as the Chancellor of MREI. Our team comprises super experts, patent holders, the former Director of C-DAC, senior scientists from NEERI, and the former Chairman of IOCL, alongside former members of the National Green Tribunal and senior officials from the Ministry of Environment and the Central Pollution Control Board. Additionally, our Governing Body includes hospital and industrial lab owners, environmentalists, and a distinguished advisory team of engineers, technocrats, and corporate leaders. Collaborating with renowned sustainability experts, NRF is well-positioned to offer capacity building, internship opportunities, and job support for our participants.

## CONTACT US



[netzero@carbonnormi.in](mailto:netzero@carbonnormi.in)



[www.normirf.in](http://www.normirf.in)



Unit B-417, EMAAR Digital Greens, Gurugram, Haryana- 122011