

Expression of Interest

India – Sweden Collaborative Industrial Research & Development Programme 2025

Company Information

1. Company Name: ZERO DECARBON ONE PVT LTD (**ZERO CARBON ONE**)
2. **Company Description:** Zero Carbon One is a DPIIT-recognized climate technology startup, part of the NASSCOM DeepTech Startups focused on advancing the green industrial transition through AI-driven sustainability intelligence and societal impact measurement.

We build integrated digital platforms that quantify, evaluate, and manage the environmental and societal impacts of industrial systems particularly within the steel and cement sectors. Our proprietary technology combines AI, climate modeling and advanced data analytics to automate Scope 1, 2 and 3 assessments, covering energy use, process emissions, water consumption and waste generation.

Our approach extends beyond conventional carbon accounting. Zero Carbon One's platform integrates social, economic, and environmental indicators to quantify the broader societal outcomes of industrial transformation. By linking decarbonization and efficiency measures with their impacts on employment, public health, resource accessibility and community resilience, we provide decision-makers with actionable insights to design strategies that advance climate ambition while ensuring equitable and inclusive growth.

3. Country (India/Sweden): India
4. Sector and subsector: Enterprise Software - Climate / Sustainability Tech
5. Year Established: 2024
6. Company Website: <https://zerocarbon.one/>

Contact Information

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Proposed Area of Project/ Proposal:

The project focuses on developing digital technologies for carbon accounting and societal impact measurement in the cement and steel industries. It integrates Agentic AI as an enabler to automate emissions tracking, process optimization, and data intelligence, while building tools that correlate decarbonization efforts with social and community outcomes such as employment, health, and resource equity creating a unified, data-driven framework that captures both industrial performance and societal transformation during the green transition.

Summary of the Proposed Project/Proposal:

The project aims to develop digital technologies for carbon accounting and societal impact measurement in the cement and steel industries. It leverages Agentic AI to automate emissions tracking, process optimization, and data-driven insights while linking decarbonization actions to social and community outcomes such as employment, health, and resource equity creating an integrated framework that measures both industrial efficiency and societal transformation in the green transition.

Main characteristics and specific technological expertise of potential partner you are looking for:

We seek a Swedish partner with experience in the cement or steel sectors and expertise in digital sustainability, material efficiency and process optimization. Ideal partners would have strengths in AI applications, carbon accounting, life cycle assessment (LCA), or societal impact analysis and an interest in co-developing AI-enabled tools that combine industrial decarbonization insights with social and environmental performance metrics, contributing to transparent and measurable green transition outcomes.

Potential Swedish collaborators include Ecometrix, SentianAI, Normative, Ferritico AB, Doconomy, and other organizations engaged in similar technology domains. The company is particularly inclined to collaborate with startups and innovation-driven enterprises that share a common vision for advancing digital sustainability and industrial decarbonization. Guidance and support from the Technology Development Board (TDB) in identifying and facilitating connections with such suitable Swedish partners are highly appreciated.
