PROJECT IMPLEMENTATION PLAN

Reference No.: 421

Date of Issue	3 July 2024
Project Code	24-SN-04-GE-DMP-C-TR01
Title	Productivity Improvement through AI Application in Carbon Accounting and Emission Management
Timing	5 July 2024–5 January 2025
Hosting Country(ies)	Turkiye
Venue City(ies)	Istanbul
Modality	Hybrid In-country
Implementing Organization(s)	Ministry of Industry and Technology, Turkiye and APO Secretariat
Participating Country(ies)	Turkiye
Overseas Participants	Not Applicable
Local Participants	Not Applicable
Closing Date	Not Applicable
Remarks	Not Applicable

Objectives	Establish a demonstration company that leverages AI solutions for enhancing carbon accounting and emission management: showcase the processes and tangible results of AI-driven productivity improvement and innovation: and use the results as benchmarks for other APO members in adopting similar AI systems for productivity improvement.
Rationale	Carbon accounting and emission management are crucial for compliance with environmental regulations, enhancing corporate reputation, and economic benefits through energy efficiency and carbon credits. By tracking, reporting, and reducing emissions with AI support, companies can make decisions for long-term sustainability and contribute to global climate goals.
Background	According to the World Bank, Turkiye is the world's 17th largest carbon emitter, and its emissions per capita remain below the OECD average. The government has made significant efforts to slow increases in emissions including the ratification of the Paris Agreement on Climate in 2021 and commitment to achieving net-zero carbon emissions by 2053. Carbon accounting and emission management are crucial for Turkish organizations to meet this goal. However, the process is challenging, requiring compliance with numerous standards, regulations, guides, and frameworks at local, national, and international levels. This DMP project will help establish a demonstration company that leverages AI solutions for enhancing carbon accounting and emission management, supporting compliance with environmental regulations, optimizing carbon footprints, and improving overall business sustainability and productivity.
Topics	Productivity improvement in the Carbon Intelligence Platform of the participating company; Integration of an AI module with the platform to provide data-driven insights on carbon accounting, emission management, and compliance with regulations to optimize decarbonization efforts and minimize greenwashing concerns; and Awareness of AI applications for productivity improvement.
Outcome	Enhanced productivity and transformed energy management strategies of the participating company, dissemination and promotion of AI solutions in productivity improvement, and a reference benchmark for other APO members in adopting similar AI systems for productivity improvement.
Qualifications	This project will be implemented in the following demonstration company: - Reengen Enerji Teknolojileri A.S.

Please refer to the implementation procedures circulated with this document for further details.

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Secretary-General