

The Horizon Europe project titled 'REPAIR - Removing non-CO₂ greenhouse gas emissions to support ambitious climate transitions', led by KTH Royal Institute of Technology is a four-year collaboration between universities research institutes, as well as industries and small and medium-sized enterprises spread across seven countries in Europe.

The REPAIR project goal is to develop and implement technologies that remove non-CO₂ greenhouse gases from the atmosphere and the agricultural sector. Removal of the potent non-CO₂ greenhouse gases methane (CH₄) and nitrous oxide (N₂O) can potentially mitigate global warming in the coming decades. "We can remove more than 50 percent of methane emissions in the EU, and if these technologies are implemented worldwide, they have the potential to avoid global warming by 0.3°C," says Shareq Mohd Nazir, Assistant Professor and Project Leader.

Methane and nitrous oxide are very potent greenhouse gases, mainly emitted from the agricultural sector. They are generally present at low concentrations in the atmosphere and are difficult to remove. The project focuses on emissions from the dairy sector, but ultimately, there may be multiple areas where the technique may be applied.



WWW.REPAIR-EU.COM

The work is part of the project "Removing non-CO2 greenhouse gas emissions to support ambitious climate transitions (REPAIR)" (Project number: 101069905) funded by the European Commission via the European Climate, Infrastructure and Environment Executive Agency (CINEA) within the Horizon Europe framework.







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