

EUROPEAN INNOVATION COUNCIL AND SMES EXECUTIVE AGENCY (EISMEA)

European Innovation Council (EIC) EIC Pathfinder

EIC Pathfinder Challenges Applicants' Day (5 July 2022)

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EIC Pathfinder Challenge 1: Carbon dioxide and nitrogen management and valorisation

1. IS THE CO2 CAPTURE STEP MANDATORY? AND THE CO2 STORAGE ONE?

The different possibilities like CO2 capture, N capture or CO2 storage are by themselves not mandatory, however, a system-integrated approach of a subset of these possibilities is sought for to respond to the challenge.

2. IS A PROPOSAL ADDRESSING CO2 AND N VALORISATION AT THE SAME TIME, EXPLOITING A SINGLE PROCESS A PLUS?

A single step is not a plus per se. And note that it is not a requirement to address both CO2 and N valorisation in the same proposal.

3. OUR PROCESS: CO2 -> BIOMASS/WASTE -> NATURAL GAS (RNG) -> SOLID CARBON -> CARBON CEMENT. THE FIRST STEP CO2 -> BIOMASS IS PERFORMED BY NATURE. ARE WE IN SCOPE?

This proposed process is in scope if it relates to a system integrated approach which means that the CO2 or N management and valorization process is fully integrated along the process chain/steps. The whole process can include many different steps such a CO2 and N capture, CO2 and N conversion, etc.. To be in scope, it should consider a net zero carbon process involving conversion of CO2/N from various sources and streams into renewable fuels or chemicals or net zero materials (including food, leather, etc..) and renewable energy as input.

4. IS SOIL CARBON SEQUESTRATION IN SCOPE FOR THIS CALL ALONG WITH N MANAGEMENT?

It is in scope as long as it refers to carbon farming and sustainable land management.

5. IS SUSTAINABLE POWER PRODUCTION FROM ABANDONED OIL & GAS WELLS USING CO2 IN A CLOSED LOOP AND GEOTHERMAL ENERGY FROM THE WELL WITHIN THE SCOPE?

The proposal is in scope as long as it refers to a system integrated approach and it considers a net zero carbon process involving conversion of CO2/N from various sources and streams into renewable fuels or chemicals or net zero materials (including food, leather, etc..) and renewable energy as input.

6. IS CO2 CAPTURED FROM THE OCEAN WITH THE PHOTOLYSIS AND THEN CONVERTED INTO THE CARBONATE PLATFORM FOR IMPROVED OCEAN DIVERSITY, IN SCOPE?

Yes, if it considers a net zero carbon process involving conversion of CO2/N from various sources and streams into renewable fuels or chemicals or net zero materials (including food, leather, etc..) and renewable energy as input.