

Urban Transitions & CDR Missions Knowledge Exchange

Carbon Dioxide Removal in cities

Date: 6 June 2024 - **Time:** 15:00-16:30 (CEST)

Register here: [here](#)

The [Carbon Dioxide Removal \(CDR\) Mission](#) is a public-private partnership with members from Mission Innovation countries, private sector companies and international organisations. It aims to enable CDR technologies to achieve a net reduction of 100 million metric tons of CO₂ per year globally by 2030. The CDR mission focuses to increase the efforts on research, analysis, and demonstrations in order to enhance confidence in CO₂ removals, understand and address potential environmental impacts, and improve performance while reducing the cost of CDR technologies.

This exchange is dedicated to city experts of UTM Cities (such as sustainability officers or similar roles) considering and engaging with the planning and future implementation of CDR systems.

It aims at helping them understand and evaluate the opportunities of these technologies. An overview of the CDR principles and main technologies will be provided, together with the identification of specific pros and cons of their application in cities in order to support policy- and decision-making.

You are invited to share the invite and the agenda with the most relevant colleagues who would benefit from the exchange.

Please find the agenda below and the link to register [here](#).

Agenda

15:00	Welcome – <i>Giorgia Rambelli, Director, MI Urban Transitions Mission</i>
15:05	<p>Introducing the MI CDR Mission – <i>Juho Lipponen, Coordinator, MI Carbon Dioxide Removal Mission</i></p> <ul style="list-style-type: none"> Attendees will be provided with a brief introduction of the CDR Mission’s purpose, scope, offer and demonstration actions.
15:10	<p>CDR technologies – 1. Direct Air Capture (DAC) – <i>Saviz Mortazavi, NRCan, MI CDR technical track lead on DAC</i></p> <ul style="list-style-type: none"> Overview of the DAC technology Pros and cons of each option
15:20	<p>CDR technologies – 2. Biomass with Carbon Removal and Storage (BiCRS) – <i>Jorild Svalestuen, Gassnova, MI CDR technical track lead on BiCRS</i></p> <ul style="list-style-type: none"> Overview of the BiCRS technology Pros and cons of each option
15:30	<p>CDR technologies – 3. Enhances Mineralisation (EM) – <i>Faisal Qurooni, Ministry of Energy, Kingdom of Saudi Arabia, MI CDR technical track lead on EM</i></p> <ul style="list-style-type: none"> Overview of the EM technology Pros and cons of each option
15:40	<p>Overview of Carbon Dioxide Removals technologies for cities <i>by representatives of the Department of Energy, United States of America, CDR Mission co-lead (TBD)</i></p> <p>A representative of the MI CDR mission will round out the main solutions and technologies presented in the previous sessions</p> <ul style="list-style-type: none"> Potential implications for cities to consider (e.g. costs, workforce, need for community engagement) Opportunities for cities – which technology is best suited in which context? <p><i>Q&A will follow</i></p>
15:55	<p>CDR in action in a UTM City – the experience of Bergen, Norway – <i>Are Børjesson Senior Advisor, Climate Agency</i></p> <ul style="list-style-type: none"> Case study of Bergen in applying carbon capture and removal technologies in the city Experience, challenges and lessons learnt
16:05	<p>Q&A and discussion – <i>All participants moderated by representatives of the UTM and the Natural Resources Canada, CDR Mission co-lead (TBD)</i></p> <ul style="list-style-type: none"> What experience you have so far with carbon capture technologies? What measures are you already implementing to capture or remove CO₂ from the atmosphere? Considering the technological development and deployment, but also legal, management, engineering and logistical aspects, where do you see potential opportunities and roles for cities in the carbon dioxide capture and removal? Which CDR technology do you think would fit in your city’s strategy?
16:25	Wrap up and next steps – <i>Giorgia Rambelli, Urban Transitions Mission</i>
16:30	End

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