

Jan 2, 2024

To Whom It May Concern:

I am delighted to express my enthusiastic endorsement for the proposed CO2 Absorption and Filtering System (CAFS) by Mr. AmirAli Haj-Mohammad Reza in this letter. In general, filtering or capturing carbon dioxide (CO2) from various sources, such as industrial processes or the atmosphere, is often considered as a potential solution to mitigate against climate change and hence reduce greenhouse gas emissions. The potential benefits of CAFS that filters CO2 may include:

1. **Climate Change Mitigation:** CO2 is a major greenhouse gas responsible for global warming and climate change. By capturing and removing CO2 from the atmosphere, these systems contribute to mitigating the effects of climate change.
2. **Reduced Greenhouse Gas Emissions:** Industrial processes, especially in sectors like energy production and manufacturing, contribute significantly to CO2 emissions. Filtering CO2 from these processes helps reduce overall greenhouse gas emissions, aiding in the transition to a more sustainable and low-carbon economy.
3. **Air Quality Improvement:** In some cases, CO2 capture technologies can also help improve local air quality by reducing the release of other pollutants associated with industrial processes. This can have positive impacts on human health and ecosystems.
4. **Carbon Capture and Storage (CCS):** Captured CO2 can be stored underground in geological formations, preventing it from entering the atmosphere. This approach, known as Carbon Capture and Storage (CCS), is seen as a way to permanently sequester CO2 and prevent it from contributing to climate change.
5. **Renewable Energy Integration:** CO2 capture technologies can be integrated with certain types of power generation, such as biomass or natural gas plants, to create carbon-neutral or even carbon-negative energy systems. This supports the development of cleaner and more sustainable energy sources.
6. **Facilitates Transition to a Low-Carbon Economy:** As societies strive to reduce their carbon footprint, CO2 filtering technologies play a role in enabling the transition to a low-carbon economy by allowing existing industries to continue operations with reduced environmental impact.
7. **Research and Innovation:** The development and deployment of CO2 capture technologies stimulate research and innovation in the field of climate change mitigation. This can lead to advancements in technology and more efficient and cost-effective solutions over time.

It's important to note that while CO2 filtering technologies offer potential benefits, they are not a standalone solution. Efforts to reduce overall greenhouse gas emissions, transition to renewable energy sources, and adopt sustainable practices across various sectors are critical components of a comprehensive strategy to address climate change.

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To sum up, I wholeheartedly endorse CAFS proposed by Mr. AmirAli Haj-Mohammad Reza. Please feel free to reach out to me at (701) 777-4127 or via email at hassan.reza@und.edu if you have any further questions or require additional information.

Sincerely,



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