

**FOR IMMEDIATE RELEASE**

## **JEEVAN DEPLOYS OPERATIONAL DIRECT AIR CAPTURE PROTOTYPE**

Bethlehem, PA — July 4, 2023 — Jeevan Climate Solutions announced it has built and deployed an operational Direct Air Capture prototype in its laboratory based in Bethlehem, Pennsylvania. The prototype utilizes Jeevan's novel DeCarbonHIX Direct Air Capture technology platform, developed by Jeevan's founding team.

"Today, we have demonstrated that Direct Air Capture can be successfully deployed with a high level of efficiency," said Dr. Arup SenGupta, Jeevan Chief Executive Officer and founder. "Our prototype requires substantially less heat and electricity to operate versus all other known forms of Direct Air Capture. We believe our technology can be deployed at substantially less than a \$100 cost per ton of CO<sub>2</sub> removed today. We view this as a critical and urgent tool in the fight against climate change, and we are excited to further commercialize this technology in partnership with our research partners, including the Department of Energy and Department of Interior."

Jeevan's groundbreaking Direct Air Capture research was [published by Science Advances](#) in March, in the paper titled "Direct air capture (DAC) and sequestration of CO<sub>2</sub>: Dramatic effect of coordinated Cu(II) onto a chelating weak base ion exchanger."

The technology is based on decades of research led by Dr. SenGupta, and has also been deployed in water purification use cases around the world. The technology was developed in association with Lehigh University, with support from the Department of Energy, Department of Interior, and Pennsylvania Infrastructure Technology Alliance.

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About Jeevan Climate Solutions:

Jeevan Climate Solutions is a leading climate technology startup based in Bethlehem, PA. Founded by Dr. Arup SenGupta, an internationally acclaimed chemical, biomolecular, and environmental engineer, the company specializes in direct air capture (DAC) technology. Leveraging the DeCarbonHIX resin technology from the HIX Technology Platform, originally developed for water purification, Jeevan Climate Solutions is pioneering an innovative and highly-efficient carbon capture process to combat climate change and secure a sustainable future.