

Session Title: NEDO Moonshot R&D Program Symposium

~ Future Prospect for Direct Air Capture and CO₂ Utilization ~

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Abstract title: Adjusting the Public Perception of CO₂ from a Waste Material to a Raw Material

The key to unlocking the market opportunities of CO₂ and to addressing climate change is a cost-effective way to capture and distribute CO₂ on a global scale. There is an immediate need for massive carbon dioxide removal, as noted in a report by the World Resources Institute, which identified Global Thermostat as one of three companies that have made significant progress on direct air carbon capture technologies.

Global Thermostat, co-founded by Dr. Graciela Chichilnisky in 2010, has the direct air capture industry's most advanced and lowest cost carbon capture solution for commercial applications. Global Thermostat's technology is a fully modular, scalable solution with commercial units capable of capturing from 4,000 ton of CO₂/year to theoretically any amount. Additionally, Global Thermostat's proprietary DAC technology is significantly carbon negative, as it can remove CO₂ from the atmosphere even when powered by coal-fired heat and electricity.