



# REQUEST FOR INFORMATION / STATEMENT OF INTEREST

## Carbon Dioxide Removal Education and Demonstration in New York's Hudson Valley

“All pathways that limit global warming to 1.5°C, with limited or no overshoot, project the use of carbon dioxide removal (CDR) on the order of 100 - 1,000 GigaTons CO<sub>2</sub> [billion tons] over the 21st century.”

– *UN Intergovernmental Panel on Climate Change*  
(*Global Warming of 1.5 C, 2018*)

“Carbon dioxide removal (CDR) will be necessary to achieve net-negative CO<sub>2</sub> emissions.”

- *IPCC (AR6 Synthesis Report, 2023)*

You are invited to be part of the community that guides formation of a public education and demonstration program for carbon dioxide removal on working lands in the Hudson Valley. This effort aims to provide seed funding of demonstration projects, as well as public education, in order to lay groundwork for larger programs with multiple environmental and economic benefits.

Carbon Dioxide Removal (CDR) is the practice of drawing CO<sub>2</sub> from the atmosphere into safe, durable long-term storage, either in natural formations such as rock or soil, or in durable products such as building materials. As the world's top climate science body makes clear, we need to remove over 10 gigatons / year by 2050 and over 40 gigatons each year of greenhouse gasses from the atmosphere by the end of this century – in parallel with transforming our economy to low-carbon performance – in order to turn the corner out of the climate crisis that puts lives at risk today.

For this initiative, Sustainable Hudson Valley has partnered with three expert groups: Open Air Collective, 4 Corners Carbon Coalition and Tree Media. Our intention is to create a learning community that can guide the development of carbon dioxide removal as an environmentally sound practice in our region. We are primarily interested in processes that work with natural assets such as soil, rock and working landscapes, using low-environmental-impact approaches. These include biochar, made by the pyrolysis of organic materials to create a versatile substance that can store carbon for a century or more; and enhanced rock weathering, which accelerates the natural carbon absorption of rocks by grinding them to expose much more surface area.

Extensive research by Cornell and other major universities is supporting more and more commercial efforts in this space. There is an opportunity to establish this new industry in our region with transparency and community engagement. To lay the groundwork, SHV is drawing on the model of the 4 Corners Carbon Coalition in the southwest, which combines education with local fundraising for demonstration projects, and involves the community in monitoring of project results.

As we develop this new program, we are eager to learn from anyone who is involved with CDR in the Hudson Valley through research and education, business development or investment, as well as local governments and land-owners who may want to host a CDR demonstration on their property. We anticipate opportunities to invest, to apply for project funding, to host demonstration projects and to participate in community education. Please tell us who you are and your interest or connection to CDR by completing an easy form [here](#) by April 30, 2024. We look forward to connecting!

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