

MATT ATWOOD

Founder and CEO of Aircapture

Lucia Sinapi-Thomas, Executive Director of Capgemini Ventures

Now, let us move to pragmatic examples of carbon capture and sequestration solutions and we will start with you Matt. Thank you for travelling from the US to be here with us today. You are the founder and CEO of Aircapture, which by the way is a nice name for a carbon capture solution. Can you tell us what the solution is about?

Matt Atwood, Founder and CEO of Aircapture

I am happy to. First, thank you very much for having us here today. Aircapture is a US-based company that develops direct air capture technology. What we do in the simplest terms is build machines that use a fan which pulls air through the machine and the CO₂, carbon dioxide from the air is collected on a surface of contactor substrates inside the machine. In about 15 minutes the contactors are “full” of CO₂ and we then inject heat, typically in the form of waste steam or low-temperature steam that releases the CO₂ from the contact of surface, which we then collect and try to do something useful with it. We are selling the CO₂ into various different markets and converting it into different products, such as for fuels, beverage carbonation, building materials and agriculture.

Lucia Sinapi-Thomas

Interesting. Matt, at what stage are you in the development of the solution and how fast can you bring it to industrial scale?

Matt Atwood

A good question. At present, what we are doing is we are commercializing the technology, so we have built several commercial machines based on a design-for-manufacturing at large scale development platform and we are working on selling the CO₂ into a variety of different markets. What I like to often say is that the world economy runs on carbon, carbon is in the majority of the products we use, products that run the global economy. Though we are primarily working in beverage carbonation at present, we are also working on geologic sequestration projects, producing dry ice for the cold chain, CO₂ is used very predominantly in agricultural purposes, we have projects converting CO₂ into chemicals and fertilizers, plastics, even battery materials for the energy transition, and e-fuels and energy products such as methanol.

Lucia Sinapi-Thomas

Wonderful. Thank you, we will come back to you in a moment.