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Join **Beth Hardy**,  
International CCS  
Knowledge Centre  
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*in conversation with...*



**Claude Loréa**  
Cement Director  
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General Manager  
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## TRANSCRIPT: BETH HARDY, CLAUDE LORÉA, TIM DIXON

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**Beth:** Thanks for joining us today in our series Lead, Care, Adapt. I've got two great guests joining me today Tim Dixon and Claude Lorea. Tim is the general manager for the IEA Greenhouse Gas R&D Programme. He's been at the IEAGHG since 2008 and is responsible for managing the R&D program ensuring IEAGHG activities, provide technical evidenced base to support CCS development and deployment, including the technical studies, research networks, GHGT conferences, and summer schools. Thank you, Tim for being here with us today.

**Tim Dixon:** (0:49) You're welcome.

**Beth:** (0:53) I also have with me Claude Lorea, she's the cement director for the Global Cement and Concrete Association. She leads all the aspects of the work related to cement, calling for practical understanding of its chemistry, production, coprocessing standards, etc. And she also leads the CCUS portion at the GCCA, with sustainability being a key priority. So than k you as well Claude being here today.

**Claude Lorea:** (1:20) Thank you, Beth, for inviting us.

**Beth:** So Tim, for years, IEAGHG has had its finger on the pulse of CCS around the world. Can you tell us what impact you think that COVID-19 will have on the need for CCS in continuing to meet climate change goals set by all the countries?

**Tim Dixon:** (1:42) We're faced with quite a hard question, I think. I mean, we are in very challenging times. I mean, you can't exaggerate this. The impacts of COVID-19 are absolutely terrible. But there are governments who are now thinking about stimulus packages, because we've, as well as the human health impacts, we've seen the impact on the economies as well. And it's very good to get people thinking about how to use the stimulus packages. And we do have an opportunity here. And your previous speakers also said this, stimulus packages can be used very wisely.

The need for CCS as in your question does not go away. Whilst COVID-19 is a very short term, it's a crisis of the short-term immediate nature, but climate change is also a crisis. So both crises should be really addressed with the same amount of enthusiasm and rigor. And using stimulus packages, CCS fits very well into those. Climate change is still happening. We need CCS. You can't

argue it away. It's an absolutely necessary part of the climate change solutions. Fatih Birol, the executive director of the International Energy Agency in Paris, he has been saying this message since March, that the stimulus packages, this is an opportunity to accelerate the transition to clean energy future that we want, low carbon energy future that we want. So we can use the stimulus packages wisely to do that.

**Beth:** (3:11) Claude, now turning over to you, can you tell us a bit about the role that the cement industry can play in stimulus packages, and how CCS fits into that mix?

**Claude Lorea:** (3:21) Before we talk post pandemic, I really want to emphasize safety is today's first priority in our industry, the well-being of our employees, but also the neighborhoods we work in. First of all, we provide an essential material for building infrastructure like we have seen field hospital being built in a few days. But also we have seen a lot of initiatives from our members, such as donating lab masks, or using the concrete mixers to clean streets.

We are also at the GCCA and as a sector working on what's for after the pandemic. And again, the critical role our sector will play and also in stimulus packages. Concrete is an essential material for economic recovery and for ongoing development and the construction industry even more broadly. And in this context, actually, what we are preparing is to tackle this longer, sustainability and climate change challenge. CCUS is definitely part of that equation. And yes, stimulus packages as well to support that transition and the recovery.

**Beth:** (4:47) Thank you so much. So the need for carbon capture and storage is clearly outlined by the International Panel on Climate Change report. Tim, what sectors would you target? And what regions in the world would you target for CCS deployment right now?

**Tim Dixon:** (5:01) So the short answer is all and everywhere, And I think Claude was probably, you know, she would want to talk about, and she made very good point there about cement and concrete being part of infrastructure development. But the other one, of course, to mention is the oil and gas industry as a sector. I mean, they are being really hit at the moment by the economic downturn and the oil prices in the US and the Brent crude price as well. Record lows there, and they've been really impacted. But they are really an important sector. I mean, the oil and gas industry, you know, we travel, the movement of goods and people around the world is based upon, on their products. But they also have the key expertise for CCS. For the transport and storage parts, they have the geological knowledge and the experience and the decades of use of subsurface practices. So I would say the oil and gas sector as well.

**Beth:** (6:05) Awesome. Thank you. Claude, the cement industry represents 8% of global emissions. With net zero commitments beginning to become more prominent, what movement have you seen by the cement sector globally to invest in CCS?

**Claude Lorea:** (6:22) We have a long-held commitment on reducing our emission, reducing environment footprint. Since 1990, we have reduced emission by 80% per ton product. And we have also delivered a quite substantial increase in substituting fossil fuel by alternative fuels. And there are many roadmaps developed for our sector and many have been developed by our sector itself, many studies as well. And actually, all those studies and roadmap converge where all levers are important and we know we have several levers to reduce emission. CCUS has the greatest potential to reduce our sector emissions. And according to the IEA roadmap, CCUS will contribute to 48% of the plant reduction. So, it's almost half of the plant reduction that's going to come from CCUS.

So to my view, the role that CCUS will have to play remains unchanged past pandemic. We need the recovery to be sustainable. We have seen in over the last year CCUS project flourishing in our industry. And just before this conversation I counted again on the GCCA slides showing all the

projects and we're almost at 15 projects and yes, there is uncertainty, but to my knowledge, all these projects are proceeding according to plan.

**Beth:** (8:20) So, now I just want to turn it over to you guys to talk a little bit about how coronavirus has affected your organizations in terms of has anything been postponed for you or actions that your organizations have taken. Tim, I'll turn it over to you.

**Tim Dixon:** (8:36) Our job is knowledge generation and knowledge sharing. That's our day job as IEAGHG. And as part of that, we've been together international experts on CCS and stimulate knowledge sharing. And those are events and activities that we do. And so, we have to put the health and well-being of the international CCS world first with these, we acted early. We had a summer school this year working, you know, with you, Beth. We were going to be in July in Indonesia, great to take it to Indonesia, and Southeast Asia. But we've moved that because of COVID-19, we've moved that to December this year and notified the students and everybody else.

And then as you mentioned earlier, we do organize the biggest CCS conference that there is globally, the GHGT series, and this year is GHGT 15. And it was scheduled to be in October this year. And just last week, working with our hosts Khalifa University, we made the tough decision, tough but necessary decision to move it from October this year to March 2021. We've got to put the health and well-being of all the attendees first because these are the people who are going to make CCS happen, we've got to look after them as well for that reason.

**Beth:** (10:03) GHGT is definitely the go-to CCS event. So thank you for postponing it and not canceling it. We will be there with bells on. And Claude, to you.

**Claude Lorea:** Yes, Beth, at our end we haven't really canceled anything. For example, the Global Cement and Concrete Research Network planned a full kick off-week, just before the summer, and we have now moved onto a complete online event.

We have some more activities related to the COVID. GCCA as a body usually provided members with guidelines and guidance or practices on a certain number of issues and health and safety and well-being is one of the topics we are usually covering. And actually, as a member and CEO-led organization, we want to ensure through the crisis that we assist our member to learn from each other's some plans are still operating and share best practices on that new disease and have to operate plans with social distancing measures in place.

**Beth:** (11:27) Wonderful. Well, thank you both so much for being here. I really appreciate you taking the time. And if you could please share with your stakeholders, that'd be fantastic. And all the highlights of this will be on our website.

**Claude Lorea: (11:40)** Thank you so much, Beth, and I hope – it was great initiative to organize this and I hope we can meet again physically soon.

**Tim Dixon:** (11:53) Thank you very much, Beth. It's been fun. Thank you.