



02/02/2023 BCarbon Stakeholder Meeting Zoom Chat

09:00:07 From Robin Rather to Everyone:

Good Morning to all!! Glad you are here. Opening up the chat, feel free to drop your comments and questions here or to raise your hand to speak "live." Either way is great.

09:13:03 From Jack Zietman to Everyone:

Does the Australian soil carbon protocol come out of a government program, or is it a private system?

09:13:33 From AgriProve Team to Everyone:

It's a government regulated program

09:14:17 From Carrie Masiello to Everyone:

Would anybody have a link to the program measurement protocol?

09:14:28 From Andrew Sipocz to Everyone:

A good bit of rangeland in the SE U.S. is planted with a single species of non-native grass.

09:15:01 From Matthew Stahman to Everyone:

I'm really impressed that that sampler has a coffee machine.

09:15:30 From Andrew Sipocz to Everyone:

definitely a necessary component

09:16:37 From Ricky Barton to Everyone:

What's the weight of the unit?

09:17:12 From AgriProve Team to Everyone:

Replying to "Would anybody have a..."

Clean Energy Regulator > Emissions Reduction Fund > Forms and resources > Methods > Resources for agricultural methods > A guide to the estimating sequestration of carbon in soil using default values method > Overview of a soil carbon project

09:17:50 From Aldyen Donnelly to Everyone:

Has anyone had a chance to look at the University of Nebraska's development stage tool that is being designed to analyse photos of grassland and produce a breakdown of plant



species? I have not been able to keep up, but in its earlier stage of development the concept looked extremely promising. I would love to hear the opinions of others.

09:18:24 From Aldyen Donnelly to Everyone:

I think I just broke my chat typo record!

09:23:48 From Andrew Sipocz to Everyone:

Maybe inquire at Chris Helzer's web site (Nebraska prairie guru).

09:30:16 From David Heikkinen (Carbonvert) to Everyone:

What is the maximum depth for sampling?

09:30:27 From Robin Rather to Everyone:

Layer Cake and coffee!

09:30:27 From Julie Curry to Everyone:

Looks like you are focusing on grasslands now. Will cultivated crops be in your future?

09:32:09 From Anthony Colin to Everyone:

Forgive me if you covered it but, how much does your protocol need to vary between the east coast and interior, to maintain accuracy and realism about stabilization/sequestration potential?

09:32:11 From AgriProve Team to Everyone:

Replying to "Looks like you are f..."

we work in both grasslands and cropping but the takeup from grasslands has been faster to date

09:32:51 From Julie Curry to Everyone:

Replying to "Looks like you are f..."

@AgriProve Team Thanks

09:37:16 From AgriProve Team to Everyone:

Replying to "Forgive me if you co..."

The protocol is very detailed! As part of the process, details about the geography, soil types etc are inputted into the calculations of carbon change

09:41:30 From Anthony Colin to Everyone:



Replying to "Forgive me if you co..."

@AgriProve Team Thanks!

09:41:38 From Ricky Barton to Everyone:

Are biochar applications happening in Australia to support microbial growth and groundwater stability?

09:41:40 From susancombs to Everyone:

Wonder how their market prices compare to hereperMT

09:44:58 From Bezaye Tessema to Everyone:

Sorry if it's covered already but how deep do you consider soil samples for the carbon credits so far?

09:45:27 From AgriProve Team to Everyone:

Replying to "Sorry if it's covere..."

we routinely go down to 3.2ft (1 metre)

09:45:34 From Robin Rather to Everyone:

Thank you so much Matthew! Great job.

09:45:36 From Wayne Knight, HMI to Everyone:

What happens with your model is Carbon in the soil declines - for whatever reason?

09:45:52 From Audrey Barrett Bixler (Arva) to Everyone:

Thanks, Matthew. What's the best way to get in touch with you and/or your team?

09:46:26 From AgriProve Team to Everyone:

Replying to "Thanks, Matthew. Wh..."

Hi you can contact us at matthew@agriprove.io or jenni@agriprove.io

09:46:55 From Audrey Barrett Bixler (Arva) to Everyone:

Replying to "Thanks, Matthew. Wh..."

Great. Thx!

09:46:58 From Miguel to Everyone:



Dan you dropped off.

09:49:28 From Robin Rather to Everyone:

Qualitative = fluff. Great quote!

09:52:08 From AgriProve Team to Everyone:

Replying to "What happens with yo..."

Wayne we monitor soil carbon via remote sensing, and apply for credits unless we can show a measurable increase. We work over longer project periods and don't have an interim credit approach. The latest iteration of the soil carbon methodology offers a lot more opportunity with modelling so there's a lot of work on modelling happening at the moment.

09:54:21 From Bryan Hummel to Everyone:

Agreed 100%. For most companies, Net zero is nearly impossible to obtain without carbon sequestration activities.

09:55:58 From Andrew Sipocz to Everyone:

Aren't regional electric grids that are zero C emissions the most important factor allowing companies to reach net zero?

09:56:39 From Robin Rather to Everyone:

A step below terrible. OUCH.

10:00:13 From Bryan Hummel to Everyone:

@ Andrew, There are NO regional grids that are zero carbon emissions if you include the embodied costs of building out the infrastructure for solar or wind or geothermal, or hydroelectric, or nuclear. There are VERY FEW energy projects that are working their way toward carbon neutrality... One of the companies that are doing the best in my opinion, is Silicon Ranch and their Regenerative energy program.

10:02:49 From susancombs to Everyone:

if the demand for offsets is going to escalate, what are the strategies for nonetheless fulfilling that demand?

10:06:04 From Miguel to Everyone:

great question Audrey - same question from me.

10:09:33 From Bryan Hummel to Everyone:

the ROI of a carbon sequestration investment become much easier to assess if you look at the Carbon PLUS ecosystem services. This is a marketing issue that people are definitely starting to make... This becomes even more powerful when we can show that the company gets various risk reductions to their OWN operations through their carbon investments. (For



example having a company/city invest in soil health upstream from the most flood prone areas of their operations/community). FEMA, HUD, USACE, USDA, EPA, EDA, and others are looking at how soil health can help mitigate risk, and increase resilience to companies and communities while enhancing outcomes for people, planet, and profits.

10:10:54 From Kelly Cain - National Indian Carbon Coalition to Everyone:

Recent example of Reputational Risks on Supply & Demand Side = <https://www.ftm.eu/articles/south-pole-kariba-carbon-emission?share=eLV7CrbCerBKx4Krgos%2BuXwpLi61SGmo%2Bx%2BMflgaUZmMkjXitUR%2FbT6SuFVqPjY%3D>

10:11:03 From Miguel to Everyone:

Measurement based protocols tracking carbon stocks could be used for offsets or insets potentially.

10:12:42 From Bryan Hummel to Everyone:

YES, several companies (and entire countries) are investing in carbon for marketing purposes. But I agree with Dan on companies are "cheating" on their net zero claims.

10:14:11 From Beth Bader to Everyone:

I'm intrigued on the intersection of voluntary markets and inseting, for example the climate smart commodity work by ACR: <https://americancarbonregistry.org/news-events/news/acr-to-lead-20m-usda-climate-smart-agriculture-commodities-and-markets-project>

10:14:30 From Bryan Hummel to Everyone:

Reacted to "I'm intrigued on the..." with 👍

10:26:23 From Matthew Stahman to Everyone:

Are there any particular O&G fields in the country that CH4-Zero is focusing on initially? West or North Texas, for example?

10:27:48 From Bryan Hummel to Everyone:

I much prefer the main previous focus on the nature based solutions for carbon sequestration through trees, plants, and soil.

10:28:44 From Roxsan Okan-Vick to Everyone:

Definitely worth taking a serious look.

10:28:51 From Audrey Barrett Bixler (Arva) to Everyone:

My initial reaction is YES. It would help provide a more holistic approach to GHG reductions for projects & project developers, since they will likely already be working on lands where these unplugged wells exist.

10:29:45 From Beth Bader to Everyone:



Some of the most permanent and low risk carbon offsets are a bit "unsexy" like destruction of Ozone Depleting Substances.

10:29:52 From Bryan Hummel to Everyone:

If Methane is 130 times more damaging than carbon dioxide, how would you rank these methane credits when compared to carbon credits... any idea as to pricing per ton of credits? Have you been looking at the crypto miners who are using abandoned wells to run generators for portable crypto mining trailers?.

10:29:53 From BrianThomas to Everyone:

Plenty of stacking opportunities from my experience, most companies can roll into Asset Retirement Obligation (AROs) and crediting offers a discount/incentive on the ARO. I've seen many examples of ecological restoration in tandem with the well P&A on large scale in some O&G fields. These projects often overlay nicely with native prairie restoration in states like TX, OK Dakotas.

10:30:15 From John Brooks to Everyone:

Reacted to "Plenty of stacking o..." with 👍

10:31:26 From Bryan Hummel to Everyone:

How long do these "Plugs" last? How deep does the concrete plug go down the well? how do these plugs respond to earthquakes?

10:31:30 From Ricky Barton to Everyone:

How do you account for fracking leakage in coal-bed methane.

10:31:45 From Bryan Hummel to Everyone:

Reacted to "How do you account f..." with 👍

10:32:34 From Miguel to Everyone:

Conversion rate would do the trick.

10:32:57 From Jschwartz to Everyone:

It isn't nature-based, per se, but stacking restoration of the well fields with the plugging of the wells, would certainly qualify as nature-based.

10:33:36 From John Brooks to Everyone:

We need to have a multi-prong approach, and Methane reduction through well capping should be considered. GES is working on this in other states, and we are not only capping the well, but also ecologically restoring habitat once the capping is complete. We have restored wetlands, streams, meadows and other habitats based on the landscape position and eco-region.

10:34:00 From Miguel to Everyone:



What is the average size of the reclaimed land per well? At volume, could be significant acreage.

10:34:26 From Beth Bader to Everyone:

There is some interesting work on how to measure methane GWP using GWP* instead of GWP100 to account for the properties of methane as a short-lived climate pollutant.

10:36:30 From Bryan Hummel to Everyone:

Thanks Darrin! the EPA has some rules and some funding for abandoned wells. I can help you connect to these regulatory folks in several regions, Especially R6 and R8.

10:38:56 From Sarah Swackhamer to Everyone:

Reacted to "There is some intere..." with 👍

10:45:34 From Darrin Prescott to Everyone:

Thanks Bryan! — let's connect offline — darrin@grenian.com / 203-561-8672

10:45:49 From Sarah Swackhamer to Everyone:

the link again from Kelly : <https://www.ftm.eu/articles/south-pole-kariba-carbon-emission?share=eLV7CrbCerBKx4Krgos%2BuXwpLi61SGmo%2Bx%2BMflgaUZmMkjXitUR%2FbT6SuFVqPjY%3D>

10:48:26 From Ryan White to Everyone:

Thanks robin for the continued push for quantitative. Been doing this for 20 years and see too much risk in the qualitative certifications, verifications!

10:48:32 From hannibal anderson to Everyone:

Thank you all

10:48:33 From Audrey Barrett Bixler (Arva) to Everyone: