1	UNITED STATES COMMODITY FUTURES TRADING COMMISSION
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3	SECOND VOLUNTARY CARBON MARKETS CONVENING
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7	Wednesday,
8	July 19, 2023
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- 1 PROCEEDINGS
- 2 MR. BEHNAM: Morning everyone. We're
- 3 going to get started. Apologies for the late start,
- 4 but name tents, they happen. So appreciate everyone
- 5 being here. And some of you are aware, we had a
- 6 meeting of the Ag (Agriculture) Advisory Committee
- 7 this morning and I'll mention it in my statement,
- 8 but just want to thank the members again from that
- 9 committee for participating. Many are here today.
- 10 As you all know who are part of this voluntary
- 11 carbon market discussion, the ag constituency is a
- 12 hugely important constituency and one that we've
- 13 been working with and talking to for many, many
- 14 months.
- And as we were deciding about today's event,
- 16 it's a long day, get comfortable. We are thrilled
- 17 to have you here with us, but certainly having the
- 18 two meetings on the same day I thought made a lot
- 19 of sense, both in terms of knocking two things out
- 20 with one stone.
- 21 But also having that intersection of
- 22 disciplines coming together with market experts,

- 1 with end users, manufacturers, but also that ag
- 2 community being here with us today.
- 3 So I'm going to jump right in for a few
- 4 minutes with my opening comments and then we're
- 5 going to go down the line and welcome the
- 6 commissioners here and then I'm going to turn it
- 7 over to my colleagues David and Abigail, who will
- 8 kick off the event and we will go through the
- 9 panels throughout the rest of the afternoon and
- 10 hopefully have a great discussion.
- 11 So with that, good morning and welcome to the
- 12 CFTC's second voluntary carbon markets convening.
- 13 Again, I want to thank the commissioners for
- 14 joining today's meeting. I also want to thank the
- 15 members of the Climate Risk Unit, our distinguished
- 16 keynote speakers, members of the CFTC's Ag Advisory
- 17 Committee, moderators and panelists.
- 18 Among them here today, I want a special
- 19 recognition for Dan Berkovitz, CFTC Commissioner
- 20 and former General Counsel. Dan's going to be
- 21 moderating two panels, and Dan, as always, thanks
- 22 for your ongoing service to the American public.

- 1 Finally, I want to thank and extend gratitude
- 2 to David Gillers, the CFTC's Chief of Staff and the
- 3 Director of the Climate Risk Unit, and Abigail
- 4 Knauff, the Special Counsel in my office and also
- 5 the Deputy of the CRU.
- 6 As I said this morning, this could not have
- 7 happened without these two individuals. I know many
- 8 of you have spent hours on the phone in preparation
- 9 for today. They are subject matter experts. They
- 10 did a ton to get us to where we are today. I just
- 11 want to acknowledge and thank them and I hope you
- 12 spend some time today just sharing with them the
- 13 same sentiment.
- 14 Last year, I hosted the CFTC's first voluntary
- 15 carbon markets convening and followed it with a
- 16 Commission Request for Information on Climate-
- 17 Related Financial Risk.
- Both comprised a very intentional first step
- 19 to making greater progress through public-private
- 20 partnerships towards ensuring that the developing
- 21 carbon and carbon-related products and markets have
- 22 integrity and adhere to basic market regulatory

- 1 requirements.
- 2 At that point, we were already on a common
- 3 ground with the understanding that climate change
- 4 presents both risks and opportunities in our
- 5 derivatives and larger financial markets that
- 6 require decisive and cohesive leadership to fully
- 7 realize. The challenge of supporting high integrity
- 8 offsets, resilient and transparent infrastructure,
- 9 and global credibility lay before us.
- 10 Our core question then was what role the CFTC
- 11 should have in the voluntary carbon markets. In the
- 12 weeks and months since the first convening, the
- 13 Commission received comments from over 80
- 14 stakeholders expressing views from the halls of
- 15 Congress to farmers, ranchers, and others along the
- 16 traditional agricultural value chain that serve as
- 17 our historical core constituency as well as from
- 18 traditional financial market participants.
- 19 Two main takeaways from the input we received
- 20 were, one, the Commission should use our anti-fraud
- 21 and anti-manipulation enforcement authority to the
- 22 fullest extent possible; and two, the Commission

- 1 should support the development of standards to
- 2 promote the growth of high integrity carbon
- 3 offsets.
- We recently launched two enforcement-oriented
- 5 efforts, which I will describe in a moment. Today's
- 6 convening serves as the public launch of a
- 7 Commission workstream led by the CRU, the Climate
- 8 Risk Unit, aimed at drafting -- for Commission
- 9 consideration, of course -- agency guidance
- 10 addressing standards in the voluntary carbon
- 11 markets.
- We anticipate that with the Commission's
- 13 support, an issuance for public comment will be
- 14 forthcoming. The voluntary carbon markets are at a
- 15 critical point in their development. The CFTC also
- 16 has an increasingly critical role in policing for
- 17 fraud and manipulation in underlying and related
- 18 markets.
- Building on the work of the private sector, we
- 20 are aiming to support standards for high integrity
- 21 carbon credits and ensure the financial integrity
- 22 of all transactions within our jurisdictional space

1 while protecting market participants from fraud and

- 2 other abuse.
- We are here today at this convening, which
- 4 immediately, as I mentioned followed the Ag
- 5 Advisory Community meeting, because we have
- 6 gathered the information we need. We had a clear
- 7 understanding that there is interest and there is
- 8 an opportunity to ensure that we take intentional
- 9 steps towards supporting standards for high
- 10 integrity offsets.
- 11 Today, our agenda seeks to further explore a
- 12 market overview of the current and forecasted state
- 13 of the voluntary carbon markets, the CFTC's recent
- 14 enforcement announcements, public sector
- 15 initiatives related to carbon markets, recent
- 16 private sector standardization initiatives; current
- 17 trends and developments in the cash and derivatives
- 18 markets for carbon credits, and finally, market
- 19 participants' perspectives on how the CFTC can
- 20 promote integrity for high quality carbon credit
- 21 derivatives.
- 22 Last month, the CFTC announced two initiatives

- 1 aimed at building trust and rooting out misconduct
- 2 in the voluntary carbon and larger environmental
- 3 markets.
- 4 On June 20th, the CFTC's Whistleblower Office
- 5 within the Division of Enforcement issued an alert
- 6 notifying the public on how to identify and report
- 7 potential Commodity Exchange Act violations
- 8 connected to fraud or manipulation in the carbon
- 9 markets.
- 10 On June 29th, the Division of Enforcement
- 11 announced the establishment of two new task forces,
- 12 one of which will focus on environmental fraud and
- 13 misconduct in derivatives and relevant spot
- 14 markets.
- 15 Among other things, the new environmental
- 16 fraud task force will investigate potential fraud
- 17 with respect to purported environmental benefits of
- 18 purchased carbon credits and material
- 19 misrepresentations and misconduct regarding
- 20 environmental products and strategies.
- 21 Later today we will hear from the CFTC's DOE,
- 22 the Division of Enforcement Director about these

- 1 two efforts.
- 2 Throughout the Commission, every one of our
- 3 operating divisions takes its cues from what they
- 4 observe across the country -- what stakeholders,
- 5 what the general public or others are investing in,
- 6 how they are allocating their financial resources,
- 7 and how they are managing risk.
- 8 We are mission focused, and our role as the
- 9 financial market regulator is where our
- 10 responsibilities begin and end. As I've said
- 11 before, the CFTC is not a climate regulator.
- 12 Indeed, it is not within our authority to require
- 13 that market participants comply with a specific
- 14 climate policy or foreclose access to our regulated
- 15 markets based on any such policy.
- We are here to support the integrity of
- 17 developing markets, and to encourage the growth of
- 18 transparent, liquid and robust markets in which
- 19 farmers, ranchers, manufacturers, commercial end-
- 20 users, and investors are able to participate to
- 21 efficiently manage their risk.
- 22 At our last convening, to demonstrate the

- 1 exponential growth of the voluntary carbon markets,
- 2 I cited a November 2021 article indicating that the
- 3 voluntary carbon market exceeded \$1 billion in
- 4 value for the first time. As cited in our recent
- 5 press release regarding the CFTC Whistleblower
- 6 Alert, the VCM market is currently estimated to be
- 7 \$2 billion.
- 8 In other words, at least according to one
- 9 source, it roughly doubled in a little over one
- 10 year. As we will cover today, multiple private
- 11 sector-led voluntary carbon markets initiatives are
- 12 underway to address quality, transparency,
- 13 predictability, measurability, and capacity of
- 14 credits.
- 15 Globally, in addition to ongoing cooperative
- 16 work by the United Nations' Intergovernmental Panel
- 17 on Climate Change, in November, IOSCO's Sustainable
- 18 Task Force Carbon Markets Workstream, which I co-
- 19 chair with Verena Ross of the European Securities
- 20 and Markets Authority, issued a public consultation
- 21 on 14 key considerations that relevant authorities
- 22 may consider as they seek to shape a VCM market

- 1 structure that supports fair, transparent and
- 2 orderly trading.
- 3 As a testament to the great interest in these
- 4 markets, the discussion paper received over 50
- 5 comments, which are currently under review and will
- 6 inform IOSCO's next deliverable in the year ahead.
- 7 As a global marketplace, it's critical that we work
- 8 hand-in-hand with our international counterparts
- 9 through the work of IOSCO.
- 10 Getting back to today's convening, we have no
- 11 time to waste. We have a big day, as I mentioned.
- 12 Our goal today is to really take advantage of the
- 13 space we have created and let's make that a
- 14 meaningful move forward.
- 15 Again, very honored, pleased and grateful to
- 16 all of you for participating and all of those who
- 17 will participate through the rest of the day. We do
- 18 have some individuals with us virtually, but I
- 19 think it's a great day for the agency. It's a great
- 20 day for all of us to be together and to start this
- 21 conversation and build off of what we started over
- 22 a year ago and hopefully come up with policy that's

- 1 going to support, I think collective and mutual
- 2 goals towards transition and ensuring a safe
- 3 environment for all of us.
- With that, I am going to pass it over to
- 5 Commissioner Johnson for her opening remarks.
- 6 MS. JOHNSON: Thanks so much, Chair Behnam.
- 7 Good morning. It's a pleasure to be here at the
- 8 CFTC's second voluntary carbon markets convening.
- 9 As Chair Behnam noted, last year, the CFTC
- 10 hosted a similar convening and issued a request for
- 11 information soliciting comments and feedback from
- 12 many of you, who are gathered with us this year and
- 13 were gathered with us last year.
- 14 As noted in a recent Bank of England report on
- 15 climate-related financial risks, climate change
- 16 affects our world, our economy, and our financial
- 17 system.
- 18 In connection with last year's convening and
- 19 RFI, I noted that, according to data gathered by
- 20 the National Oceanic and Atmospheric
- 21 Administration's National Center for Environmental
- 22 Information, since 1980, the United States has

- 1 sustained more than 300 weather and climate
- 2 disasters, including droughts, floods, severe
- 3 storms, cyclones, wildfires, and winter storm
- 4 events that, in the aggregate, led to costs or
- 5 damage exceeding more than a billion dollars.
- 6 Notwithstanding our long history of navigating
- 7 severe weather-related events, the increasing
- 8 frequency, severity, and intensity as well as the
- 9 rising costs of these events raise important
- 10 questions and remarkable concerns.
- I also called attention to the White House and
- 12 fellow regulators' acknowledgement of these
- 13 concerns, noting that in May of 2021, President
- 14 Biden issued an Executive Order on Climate-Related
- 15 Financial Risk, directing the Secretary of the
- 16 Treasury and FSOC members to consider issuing a
- 17 report on member agencies' efforts to consider
- 18 climate-related financial risks.
- In response to the executive order, the FSOC
- 20 issued the Report on Climate-Related Financial
- 21 Risk. And in that report, identified a number of
- 22 recommendations, several of which I believe would

- 1 be useful to our conversation today: building
- 2 capacity and expanding efforts to address climate-
- 3 related financial risks, filling climate-related
- 4 data and methodological gaps, enhancing public
- 5 climate-related disclosures, and assessing and
- 6 mitigating climate-related risks that could
- 7 threaten the stability of our financial system.
- In a number of speeches over the course of the
- 9 last year, I've noted that we're all increasingly
- 10 touched by the events that threaten environmental
- 11 sustainability and the integrity of our markets.
- 12 I grew up in North Texas, an area that remains
- 13 home to my family and the community that
- 14 contributed to every personal and professional
- 15 success that I have ever enjoyed. In February of
- 16 2021, Winter Storm Uri devastated North Texas and a
- 17 number of parts of the state. The storm contributed
- 18 to 210 deaths.
- 19 And the Federal Reserve Bank of Dallas
- 20 estimated that the state's financial losses,
- 21 because of the storm, would range between \$80
- 22 billion and \$130 billion. During the storm, more

- 1 than two out of three Texans, approximately 69
- 2 percent, lost electricity at some point during the
- 3 storm, for an average of 42 hours.
- 4 The significant financial loss can be
- 5 attributed to the loss of power, physical
- 6 infrastructure, damage and forgone economic
- 7 opportunities. According to the Texas section of
- 8 the American Society of Civil Engineers, some
- 9 engineers estimate that the cost of the storm could
- 10 reach \$300 billion. The financial loss is
- 11 substantially greater than both Hurricanes Harvey,
- 12 \$145 billion, and Hurricane Katrina, \$161 billion.
- 13 The development of sustainability initiatives
- 14 requires our careful consideration and merits
- 15 robust debate. While there may be a number of well-
- 16 supported yet divergent perspectives articulated
- 17 today, our common goal must be to adopt a
- 18 transparent path that effectively prevents double
- 19 counting, ensures additionality and prevents fraud.
- 20 The number of VCMs, as the Chair noted, has doubled
- 21 in the last two years.
- In fact, not just the use of voluntary carbon

- 1 markets, but understanding, discussion, and
- 2 dialogue around the development and quardrails for
- 3 these markets has also increased.
- 4 The rapid growth of these markets requires the
- 5 Commission's careful attention to ensure these
- 6 markets retain their integrity and continue to
- 7 successfully support the reduction of greenhouse
- 8 gas emissions.
- 9 In my capacity as the Sponsor the Market Risk
- 10 Advisory Committee, overall, I inherited from Chair
- 11 Behnam, I reestablished the Climate-Related Market
- 12 Risk Subcommittee. The subcommittee will work in
- 13 support and alongside the Commission to advance the
- 14 initiatives that we discuss here.
- The topics and issues that the subcommittee
- 16 may consider will directly relate to, as the Chair
- 17 has described, regulation, supervision, and
- 18 oversight of climate-related market risks and
- 19 related financial products.
- 20 At the last MRAC meeting, Peter Malyshev
- 21 reported that there are over 200 environmental
- 22 based futures contracts that have been traded in

- 1 carbon markets in the United States. Experts are
- 2 also seeing the development of an OTC market in
- 3 swaps related to environmental products and other
- 4 sustainability related products.
- 5 The Commission has the authority to act as an
- 6 enforcement body in this market, specifically, by
- 7 enforcing anti-fraud and anti-manipulation, as
- 8 relates to offsets. As the Chair has noted, this is
- 9 directly within our mandate.
- I am confident that the Commission -- I'm
- 11 hopeful that the MRAC subcommittee on climate risk
- 12 related to financial markets and all of you will
- 13 help us to contribute significantly to these
- 14 discussions and the development of regulatory
- 15 guidelines.
- I am hopeful that today's discussion will lead
- 17 to a clear description of tangible and actionable
- 18 next steps within our existing authority that the
- 19 Commission may immediately begin to implement to
- 20 address the increasingly detrimental concerns
- 21 described here.
- 22 Today, I look forward to discussing the

- 1 current state of VCMs and all of the issues
- 2 outlined in the agenda for today and at the close
- 3 of the Chair's opening remarks. I want to thank
- 4 Chair Behnam and his counsel, Abigail and David for
- 5 bringing us all together today. I am grateful for
- 6 the opportunity to participate and learn from this
- 7 diverse group of experts.
- 8 I'm excited to learn what we at the CFTC can
- 9 do to support the development, evolution, and
- 10 success of sustainability. I'm excited by the --
- 11 I'm excited to hear the colloquy and exchange of
- 12 ideas that this forum will generate. I look forward
- 13 to hearing from many of you today.
- 14 MR. BEHNAM: Thanks Commissioner Johnson.
- 15 Commissioner Goldsmith Romero?
- MS. GOLDSMITH ROMERO: Good morning and thank
- 17 you. It's so nice to be here with so many of you
- 18 that I have spent the last year talking to about
- 19 voluntary carbon markets and the role of the CFTC.
- 20 Thank you, Abigail and David, in setting this
- 21 up, and thank you Chairman Behnam, for not only
- 22 your continued priority of climate issues, but for

- 1 working with me to promote resilience to climate
- 2 risk.
- 3 Understanding and monitoring climate risk is a
- 4 critical role for the CFTC. We see the physical
- 5 impacts of climate change, how it poses to serious
- 6 risks to commodities markets and then overall,
- 7 climate change poses a systemic risk to the
- 8 financial system. I have met with farmers and
- 9 producers, reviewed U.S. Department of Agriculture
- 10 reports and NOAA reports, and I've seen and heard
- 11 examples of the impacts that severe climate events
- 12 have on commodities markets.
- 13 Last year, farmers and ranchers experienced
- 14 \$21 billion in total crop and rangeland losses,
- 15 mostly from drought and wildfire. 2023 has seen two
- 16 thirds of the US corn production area in drought
- 17 and harvested winter wheat substantially down. This
- 18 naturally serves as a risk for derivatives markets.
- 19 Once we know the risk, we can plan for it. We can
- 20 manage around it. We can use every tool at our
- 21 disposal to manage risk and promote climate
- 22 resilience.

- 1 And in the end, managing risk is what
- 2 derivatives markets are all about. I've heard a lot
- 3 about farmers and producer's contributions to
- 4 climate resilience through longstanding practices.
- 5 In many ways, they're the originals in
- 6 sustainability. The Department of Agriculture
- 7 announced almost \$3 billion to be invested in
- 8 climate smart commodities projects.
- 9 Some market participants see potential in the
- 10 voluntary carbon credit markets as an opportunity
- 11 to manage climate related risk. And there are
- 12 currently voluntary carbon credit markets trading
- 13 on CFTC derivatives exchanges. And that puts the
- 14 CFTC in a unique position.
- There is much interest in spot voluntary
- 16 carbon credit markets over which the CFTC has anti-
- 17 fraud jurisdiction. Despite predictions of growth
- 18 from a \$2 billion market to a \$50 billion market,
- 19 Bloomberg found that corporations used 4 percent
- 20 fewer credits in 2022. So the carbon credit markets
- 21 continue to face challenges. And I look forward to
- 22 hearing about those and possible solutions.

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1 Well-designed markets help deliver liquidity
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- 2 and price transparency while managing risk, when
- 3 participants are confident that they have credible
- 4 information. One of the biggest challenges in
- 5 carbon markets is fragmentation that prevents that
- 6 market confidence.
- 7 There are different registries and standard
- 8 setters, and much is over the counter. A lack of
- 9 transparency through consistent, comparable data
- 10 with an agreed upon taxonomy can present challenges
- 11 to proper functioning of markets. The recent
- 12 slowdown may reflect concerns over a lack of
- 13 transparency and trust.
- 14 Those interested in participating in markets
- 15 want to be assured that they are purchasing high
- 16 quality carbon credits. And some companies have
- 17 pivoted away from carbon markets entirely out of
- 18 concerns that it leaves them open to accusations of
- 19 greenwashing.
- 20 The market should signal through pricing those
- 21 carbon credits that are high quality. However,
- 22 there is insufficient price transparency. According

- 1 to the World Bank, the price of carbon credits has
- 2 fallen to under \$5 per ton for most categories,
- 3 except credits for carbon removal which trade at
- 4 approximately \$15 per ton. It attributes this to
- 5 the least common denominator effect, where high
- 6 quality projects cannot be distinguished from low
- 7 quality.
- 8 Efforts like the Integrity Council on
- 9 Voluntary Carbon Market are an important and
- 10 welcome attempt to create a common understanding of
- 11 a high-quality carbon credit. Their core carbon
- 12 principles and soon to be released assessment
- 13 framework could help identify credits "that create
- 14 real, additional and verifiable climate impact with
- 15 high environmental and social integrity." I have
- 16 had the fortune a few times of spending time
- 17 discussing the work with Annette Nazareth of the
- 18 ICVCM. I had the pleasure of working with Annette
- 19 at the SEC when she was a commissioner.
- 20 Buyers of carbon credits are also becoming
- 21 clearer about how they will use credits in order to
- 22 avoid accusations of greenwashing. The Voluntary

- 1 Carbon Markets Initiative announced that COP26,
- 2 developed Claims Code of Practice, which is a guide
- 3 for how companies "can credibly make voluntary use
- 4 of carbon credits," including encouraging companies
- 5 to stop treating carbon credits as "offsets," but
- 6 instead a contribution above and beyond
- 7 decarbonization.
- 8 When it comes to the CFTC's role, first and
- 9 foremost, our role is to regulate derivatives
- 10 markets. The Commission should work with exchanges
- 11 and market participants to ensure the integrity of
- 12 markets and promote responsible innovation in
- 13 products.
- 14 A few weeks ago, I met with CME and ICE to
- 15 discuss their carbon credit products, the markets,
- 16 demand, and the surrounding issues. This builds on
- 17 my proposals in February and March that the CFTC
- 18 work with exchanges on listing standards through
- 19 guidance related to environmental products.
- This would guide exchanges in fulfilling their
- 21 core principles. This could involve looking at the
- 22 standards developed by the ICVCM and the VCMI and

- 1 other due diligence. Additionally, in March at
- 2 ISDA's ESG conference, I proposed that the
- 3 Commission follow a similar approach to
- 4 environmental products as those for digital assets.
- 5 This would include consumer education about
- 6 the qualities of a high-quality carbon credits,
- 7 asserting our anti-fraud legal authority, including
- 8 in spot carbon credit markets, increasing market
- 9 intelligence, robust enforcement, and government
- 10 wide coordination, as well as international
- 11 coordination. And to continue mirroring our
- 12 approach to digital assets, I proposed a heightened
- 13 review of self-certified environmental products,
- 14 including those related to carbon credits.
- 15 Second is our antifraud authority over spot
- 16 markets. In June, the Commission announced an
- 17 Environmental Fraud Task Force, which I advocated
- 18 for and I appreciate Chairman Behnam's leadership
- 19 and working with me on that. I also appreciate the
- 20 Director of Enforcement, who has worked closely
- 21 with me and my office on launching this task force.
- 22 We are working on sourcing cases, including through

- 1 whistleblowers, as recently announced, and I intend
- 2 to keep our sleeves rolled up to combat fraud.
- 3 Thank you to all here today and I look forward
- 4 to hearing all of your views on these important
- 5 issues. I'm very glad to see so many faces of
- 6 people I've been talking about these important
- 7 issues with.
- 8 MR. BEHNAM: Thank you. Commissioner
- 9 Mersinger.
- 10 MS. MERSINGER: Good morning, afternoon. I'm
- 11 not sure which it is, but thank you to Chairman
- 12 Behnam for holding this convening and thank you to
- 13 everyone, both participants in the audience for
- 14 being here today. We have a packed agenda, so I'm
- 15 going to try to keep this brief, you know, and just
- 16 let you know that I appreciate the opportunity to
- 17 listen and learn today.
- 18 One of our constants for our work here at the
- 19 CFTC is that our markets are really linked to the
- 20 real economy, and so, as industry needs and
- 21 consumer preferences change, our markets change
- 22 with them.

- 1 As regulators, it is critical for us to be
- 2 aware of these changes and new innovations, so that
- 3 we can properly apply the Commodity Exchange Act
- 4 and our rules to all markets and market
- 5 participants fairly, while protecting customers and
- 6 ensuring market integrity. This is the mandate that
- 7 Congress has given us.
- 8 We do not favor one market or product over
- 9 another, but as newer products and markets emerge
- 10 and evolve, we have to take the time to learn and
- 11 study the details of how they operate. I sponsor
- 12 the Energy and Environmental Markets Advisory
- 13 Committee and we've held several meetings in which
- 14 we have discussed ongoing changes in the energy
- 15 markets.
- 16 At these meetings, I have seen firsthand the
- 17 importance for regulators to ensure that the
- 18 markets, including the markets we regulate,
- 19 continue to facilitate abundant and affordable
- 20 energy. No doubt that we need to keep a close eye
- 21 on all markets that have a link to energy
- 22 production and events like this are key to that

- 1 understanding.
- Whether it takes the form of a roundtable, a
- 3 convening, requests for information, requests for
- 4 comment, or advisory committee meetings, I think
- 5 any opportunity for us to hear from stakeholders is
- 6 an opportunity to learn.
- 7 I appreciate the efforts of the Chairman's
- 8 staff in putting this together today, and I look
- 9 forward to hearing from all the participants on
- 10 today's panel. Thank you.
- 11 MR. BEHNAM: Thanks, Commissioner Mersinger.
- 12 I'm now going to turn it over to Abigail Knauff,
- 13 who is going to talk about some logistics before we
- 14 get going. Abigail.
- 15 MS. KNAUFF: Thank you, Chairman. Just as few
- 16 logistical and administrative reminders for
- 17 participants here in the conference center. Please
- 18 press the button to activate your microphone when
- 19 you speak. This meeting is being simultaneously
- 20 webcast and it's important that your microphone is
- 21 on so the webcast audience can hear you. Also,
- 22 please lean into the microphone when you speak and

- 1 keep your phones away from the console.
- 2 If you would like to be recognized during the
- 3 discussion, please change the position of your tent
- 4 card so that it's vertically on the table or can
- 5 you can raise your hand and the moderator will
- 6 recognize you.
- 7 Virtual participants, please use the raise
- 8 hand feature in Zoom if you would like to
- 9 interject. Please identify yourself and your
- 10 organization. Please note that during the
- 11 convening, the Zoom audio feed will be live to
- 12 those participating in person, as well as those
- 13 listening to the public webcast in real time.
- 14 Please ensure that you're muted unless you are
- 15 presenting or engaging in the Q&A, including during
- 16 the breaks.
- 17 To all of our participants today, there will
- 18 be a transcript of this roundtable, which will be
- 19 posted on the CFTC website. If you use
- 20 abbreviations or technical terms, please explain
- 21 them the first time they are used.
- 22 As a disclaimer from our Office of General

- 1 Counsel, additionally, before we begin today, we
- 2 would like to remind participants and attendees
- 3 that this is a public convening for which the
- 4 purpose of today's event is for the CFTC to receive
- 5 information and opinions from individual panelists
- 6 on issues related to voluntary carbon markets. The
- 7 CFTC is not seeking consensus advice from the
- 8 panelists, and this convening is not a meeting
- 9 under the Sunshine Act.
- 10 Additionally, none of the statements made
- 11 during this meeting should be construed to
- 12 constitute or imply endorsement, recommendation, or
- 13 favoring of any organization, products, or services
- 14 by the United States Government, the CFTC, or any
- 15 of the CFTC employees.
- 16 As noted in yesterday's press release, there
- 17 will be a public comment file open until August
- 18 18th for the public to submit comments on today's
- 19 discussion on the CFTC's website.
- 20 I will now turn it back to the Chairman.
- MR. BEHNAM: Thanks, Abigail. So we're going
- 22 to get started. I'm very pleased to welcome Ian

- 1 McGinley, who's the Director of the CFTC's Division
- 2 of Enforcement. We've heard a lot about the actions
- 3 that we've taken in the past few months.
- 4 So Ian's going to provide brief remarks on the
- 5 Division's recent announcements, specifically as
- 6 they pertain to the carbon market. So with that,
- 7 Ian, hand it over to you.
- 8 MR. MCGINLEY: Thank you, Chairman, and good
- 9 afternoon. It's my pleasure to be here as the
- 10 Director of the CFTC's Division of Enforcement. I'd
- 11 like to thank Chairman Behnam for the opportunity
- 12 to speak and your leadership.
- 13 I'd like to thank the commissioners as well
- 14 for their thoughtful guidance and insight,
- 15 particularly when it came to establishing the task
- 16 force, which I will discuss. And I'd also like to
- 17 thank David Gillers and Abigail Knauff, the co-
- 18 heads of the Climate Risk Unit.
- 19 I'd like to do two things in my brief remarks
- 20 this afternoon. First, I'd like to discuss the
- 21 CFTC's jurisdiction in this space. And then I'd
- 22 like to discuss some efforts we are taking to

1 examine potential misconduct in the carbon markets.

- 2 So as we all know and we've heard this
- 3 morning, carbon markets have been in the news
- 4 recently. And we've heard a wide range of
- 5 allegations affecting these markets.
- 6 These allegations, and they are just
- 7 allegations at this point, include a variety of
- 8 misconduct such as fake credits or credits that
- 9 remain in carbon markets after carbon mitigation
- 10 efforts have ended, the selling of carbon credits
- 11 that overstate the extent of carbon mitigation,
- 12 registries listing credits with insufficient
- 13 diligence and oversight into the extent of such
- 14 mitigation, and the manipulation of tokenized
- 15 carbon credits.
- So in the face of these reports, the first
- 17 question we ask ourselves at the Division of
- 18 Enforcement is whether we have jurisdiction to
- 19 address the potential misconduct. So as we've heard
- 20 this morning, the CFTC has regulatory authority
- 21 over futures markets, and anti-fraud and anti-
- 22 manipulation authority over underlying commodity

- 1 spot markets.
- 2 And the carbon markets include both
- 3 derivatives and spot markets. Carbon credits issued
- 4 are listed as the underlying commodity for several
- 5 futures contracts that are listed on the derivative
- 6 exchanges that we regulate as designated contract
- 7 markets, like NYMEX and Nodal.
- 8 And while these particular futures contracts
- 9 and products are comparatively newer than most
- 10 agriculture, energy, and financial derivatives,
- 11 regulating the evolving derivatives markets is a
- 12 well-established part of what we have done for
- 13 decades.
- 14 And ensuring their integrity by prosecuting
- 15 fraud and manipulation is essential to the CFTC's
- 16 mission to promote the integrity, resilience, and
- 17 vibrancy of the US derivatives markets through
- 18 sound regulation.
- 19 And likewise, while every matter will be
- 20 evaluated based on its particular facts and
- 21 circumstances, the CFTC has anti-fraud and anti-
- 22 manipulation authority over the spot markets for

- 1 voluntary carbon credits, as these credits affect
- 2 the integrity of the futures markets that we
- 3 regulate, and allegations of fraud in these markets
- 4 is significant. These markets reflect efforts to
- 5 incentivize sharp reductions in carbon emissions.
- 6 And fraud in these markets could undermine
- 7 those efforts. And as a longtime prosecutor, one of
- 8 the most striking aspects to me of the public news
- 9 reports to date is that while voluntary carbon
- 10 markets are relatively new, the allegations that we
- 11 are hearing are as old as time. One party allegedly
- 12 lying about the quality of good and deceiving
- 13 another for a profit.
- 14 So for all of these reasons, I've directed the
- 15 Division of Enforcement to take the following steps
- 16 to examine these markets. First, on June 20th, the
- 17 Division of Enforcement's Whistleblower Office
- 18 issued an alert notifying the public on how to
- 19 report violations of the Commodity Exchange Act
- 20 connected to fraud or manipulation in the carbon
- 21 markets.
- 22 As I noted at the time, whistleblowers are

- 1 invaluable allies in our efforts to promote
- 2 integrity in all of our markets. In fact, about 40
- 3 percent of our cases involve whistleblowers. And as
- 4 we always do, we will investigate all credible tips
- 5 and complaints from whistleblowers that relate to
- 6 carbon markets.
- 7 Second, on June 29th, we announced the
- 8 creation of the environmental fraud task force. Its
- 9 mission is to address fraud and other misconduct,
- 10 not only in the regulated derivatives markets, but
- 11 also in the relevant spot markets, including the
- 12 voluntary carbon markets.
- 13 And a note about our task forces, they consist
- 14 of select line attorneys and supervisors from
- 15 multiple CFTC offices. They collaborate with other
- 16 law enforcement agencies and they serve as subject
- 17 matter experts within the CFTC.
- This task force is led by Allie Passman, a
- 19 chief trial attorney in our Chicago office; and
- 20 includes trial attorneys Katie Paulson, Meredith
- 21 Borner, and Devin Kane, who are all here today.
- 22 And in case anyone was worried, they do not

- 1 have subpoenas with them, I jest, but they are very
- 2 busy and so is the task force. And this task force
- 3 works hand-in-hand with our Whistleblower's Office
- 4 in examining potential misconduct.
- 5 So in short, carbon credit markets are
- 6 relatively new, but rapidly growing in importance
- 7 as our global economy transitions to a low-carbon
- 8 economy. For the Division of Enforcement,
- 9 protecting these markets is also new, but we have
- 10 long possessed the tools to prosecute fraud and
- 11 manipulation, and we plan to use those tools here
- 12 when appropriate.
- Once again, I appreciate the invitation to say
- 14 a few words, and I'm happy to see everyone here
- 15 today for the second convening discussing these
- 16 important issues. Thank you.
- 17 MR. BEHNAM: Thanks again. That was a great
- 18 level set. I know there are a lot of people in this
- 19 room and are watching who are experts in the
- 20 Commodity Exchange Act. But there are also folks
- 21 who are not and who come to us and are part of this
- 22 conversation from the climate space or just non-

- 1 market perspectives.
- 2 And that was an important level set about why
- 3 we're here today, what the authority is, what the
- 4 statute is, what our responsibility is as an agency
- 5 to police these markets to ensure fair,
- 6 transparent, orderly markets, not only with respect
- 7 to the direct markets we regulate, as Ian pointed
- 8 out, the futures and the options, but the
- 9 underlying commodity itself, which in this case is
- 10 the offset.
- 11 So thank you, Ian, and a lot of work to be
- 12 done, but enforcement obviously is going to play a
- 13 critical role in the agency's effort. So with that,
- 14 we're going to now turn to Kyle Harrison, who is
- 15 joining us virtually, so hopefully that'll work out
- 16 well.
- 17 Kyle's from BloombergNEF and he's going to
- 18 provide market overview of the voluntary carbon
- 19 markets that hopefully will set a little bit of a
- 20 context for today's meeting and discussions that
- 21 will take place over the next few hours. So Kyle,
- 22 hopefully you're with us and you can begin your

- 1 presentation.
- 2 Kyle, we don't have audio, I don't know if
- 3 folks in the back or maybe it's as simple as a mute
- 4 button. No.
- 5 MR. HARRISON: Hello. Can anyone hear me?
- 6 MR. BEHNAM: Yeah, we got you loud and clear
- 7 now. If you could speak up, that would be great,
- 8 but we hear you.
- 9 MR. HARRISON: Perfect. Sounds good. Yeah. Hi
- 10 everyone. Thank you so much for your time today.
- 11 Apologies that I can't be there in person. And
- 12 actually, ironically, 20 minutes ago the fire alarm
- 13 went off in our London office here. And it was just
- 14 a false alarm. So clearly someone might not like
- 15 the voluntary carbon market, but I was able to
- 16 stick in and it was just a false alarm. So happy to
- 17 be with you all today.
- 18 I lead the sustainability research team for
- 19 BloombergNEF. And our group writes about research
- 20 on the transition to the low-carbon economy. One of
- 21 the key focus areas that we talk about in this
- 22 market or in this low-carbon transition is the

- 1 voluntary carbon offset market.
- 2 So companies going out and buying verified
- 3 emission reduction credits in order to achieve net-
- 4 zero targets or other emission reduction goals. And
- 5 Chair Behnam mentioned earlier that this market
- 6 contains a lot of risks, but it also presents a lot
- 7 of opportunities.
- 8 So to kick off the presentation I want to
- 9 start by showcasing some of the opportunities. And
- 10 so, what this chart is showing is 1000 of the
- 11 largest companies in the world that have set a net-
- 12 zero target. So they've pledged to fully reduce
- 13 their emissions to a level equivalent to what they
- 14 met on an annual basis.
- 15 And what we found is that for these 1000
- 16 largest companies, if they are to go ahead and
- 17 achieve their net-zero targets, they will need to
- 18 collectively reduce their emissions by 14.5 billion
- 19 metric tons of carbon dioxide, equivalent, on an
- 20 annual basis in 2050. And that's compared to a 2015
- 21 base year. To give you a sense of scale, that's
- 22 around a third of global carbon dioxide emissions

- 1 today from 1000 companies. So the opportunity here
- 2 is absolutely huge for corporations and the private
- 3 sector to lead this low-carbon transition. If you
- 4 could go to the next slide, please.
- 5 However, right, while a net-zero targets come
- 6 in many shapes and sizes, the one consistent trait
- 7 between these goals is that they will never reach
- 8 zero in their gross emissions. Right? Every company
- 9 in the world is going to need some type of verified
- 10 emission reduction certificate in order to achieve
- 11 its net-zero target.
- 12 So what I've done is I'm sticking with these
- 13 1000 companies here in this illustrative example.
- 14 And we're now pretending from a 2015 base year that
- 15 they reduce their gross emissions or what they
- 16 physically emit on these science-based targets
- 17 initiatives general net-zero pathway. So that means
- 18 they're reducing their emissions by 50percent in
- 19 2030 and 90 percent in 2050. Even in a scenario
- 20 like this, if all these 1000 companies reduce their
- 21 gross emissions by 90 percent, you're still left
- 22 with 1.5 billion metric tons of what we call

- 1 residual emissions in 2050. That is the green
- 2 segment of this chart here.
- 3 And that is the itch that a company can't
- 4 scratch somewhere along its value chain. And that's
- 5 where it's going to need some type of verified
- 6 emission reduction credit. If you can go to the
- 7 next slide, please.
- 8 If we look at a more realistic scenario, and
- 9 we look at a two-degree Celsius pathway, right?
- 10 Because we're talking about, for example, oil and
- 11 gas companies, materials companies, metals and
- 12 mining companies, companies that with much less
- 13 options to de-carbonize over time. And if we assume
- 14 that all these companies reduce on a two-degree
- 15 Celsius pathway instead of the science-based
- 16 targets initiatives general net-zero, you're now
- 17 left with 7.9 gigatons or billion metric tons of
- 18 those residual emissions in 2050.
- 19 So I think that really presents the
- 20 opportunity that these markets present, right? What
- 21 we're showing here is all these companies on the
- 22 race to net-zero and it's binary. If they want to

1 go ahead and achieve their net-zero target, they're

- 2 going to need carbon offsets.
- 3 It's not a matter of if they need them. It's a
- 4 matter of how much. And because of all of these
- 5 net-zero targets, we've seen activity in the actual
- 6 voluntary offset market scale up significantly. If
- 7 you can move to the next slide, please.
- 8 What this chart is showing is retirements of
- 9 carbon offsets over the past couple of years from
- 10 projects that are listed on the four largest carbon
- 11 offset registries. So on these registries' projects
- 12 get verification in order to go ahead and sell
- 13 credits.
- 14 And the largest of these registries are Verra,
- 15 Gold Standard, the American Carbon Registry, and
- 16 Climate Action Reserve. And I'm sure we have
- 17 representation from these registries in the room
- 18 today.
- And what we saw is that there was a record 161
- 20 million carbon credits retired or cancelled and
- 21 removed from the market and then used to neutralize
- 22 a company's residual emissions in 2021. But that

- 1 demand dropped in 2022 to 154 million tons.
- 2 And the biggest reason is often the criticism
- 3 that this market has gotten around the integrity of
- 4 projects, questions around transparency in the
- 5 market, but also a lack of liquidity. And so,
- 6 really if we want this demand to continue to scale
- 7 up, these retirements to grow, we need to go ahead
- 8 and re-emphasize and create those standards that
- 9 emphasize what does a good carbon credit look like?
- 10 How should a company and when should a company
- 11 buy those credits? And again, how should a carbon
- 12 credit be transacted? Whether it's through
- 13 exchanges or over the counter contracts or some
- 14 other type of mechanism.
- 15 Another problem that we see with the market
- 16 today, if you'll move to the next slide, please, is
- 17 that even as retirements or demand of carbon
- 18 offsets has tapered off, supply continues to grow.
- 19 So this is the same chart but instead of showing
- 20 carbon offset retirements, we are now showing
- 21 issuance or supply.
- 22 And even though demand dropped in 2022, we're

- 1 actually seeing record supply in 2022. So 247
- 2 million credits were created from projects on those
- 3 four major registries. And every day we're still
- 4 seeing new projects get verification on Verra, Gold
- 5 Standard, and the other registries. And in 2023
- 6 through June, we've seen 141 million of these
- 7 credits created. So we're actually expecting record
- 8 supply again in 2023.
- 9 And what that's doing is it's creating an
- 10 imbalance in terms of fundamentals in the market.
- 11 Because you have an oversupply, you have a surplus
- 12 of cheaper credits and companies can go ahead and
- 13 use those in many cases as a band-aid solution, as
- 14 opposed to de-carbonizing and reducing their gross
- 15 emissions. Next slide, please.
- We're also seeing a huge range in terms of the
- 17 geographic availability of these carbon credits. So
- 18 what this diagram is showing on the left is the
- 19 region where carbon offset projects are located and
- 20 creating credits.
- 21 And on the right side of this diagram, you're
- 22 seeing the location or region of the companies that

- 1 are buying those credits. The biggest takeaway here
- 2 is that companies in North America and Europe, on
- 3 the right, are overwhelmingly preferring to buy
- 4 carbon credits from projects in Asia Pacific, Latin
- 5 America, and Africa.
- On one end what this does do is it generates a
- 7 flow of capital to emerging economies and it can
- 8 emphasize things like co-benefits as well. So
- 9 beyond de-carbonization, protecting biodiversity,
- 10 job creation, food security, and a number of other
- 11 areas.
- 12 The challenge with a chart like this, though,
- 13 is that it leads to what we call carbon
- 14 nationalism. A lot of countries across Asia
- 15 Pacific, Latin America, and Africa are now starting
- 16 to view carbon abatement as a sovereign commodity
- 17 or a sovereign natural resource within that
- 18 country. And they've started to take control of
- 19 their own carbon markets.
- 20 A couple of weeks ago we've seen markets like
- 21 Zimbabwe, Zambia, and Malawi all make plans to take
- 22 over their market and re-direct revenue from carbon

- 1 offset projects to local stakeholders.
- 2 And while that could have benefits for those
- 3 companies in North America and Europe that are
- 4 overly reliant on credits elsewhere in the world,
- 5 this is going to create a huge issue in terms of
- 6 their strategy for de-carbonization. Next slide,
- 7 please.
- And because of this huge range in geography,
- 9 because of this huge range in the terms of sectors
- 10 that are creating carbon credits, and because of
- 11 the overall general oversupply that I mentioned
- 12 before, there's a huge range in prices for carbon
- 13 offsets and how they're exchanged. And in general,
- 14 they're very cheap.
- So what this chart is showing is offer and bid
- 16 prices for carbon offsets that are being displayed
- 17 and sent to us by brokers on the Bloomberg
- 18 terminal. And what you can see, right, is that
- 19 sectors like energy generation, so, clean energy
- 20 projects creating carbon offsets. Or, for example,
- 21 gas projects in China that are creating carbon
- 22 credits on the premise that they're not coal are

- 1 able to sell these credits for much cheaper. And
- 2 the main reason for that is because the gap in cost
- 3 between clean energy and fossil fuels in most parts
- 4 of the world is non-existent now. You don't need
- 5 those carbon credits to bridge that gap and make
- 6 clean energy cost competitive.
- 7 On the other end of the spectrum, nature-based
- 8 solutions, like avoid deforestation and
- 9 reforestation are priced much higher.
- 10 But in general, they're all still far too
- 11 cheap. Your average broker transacted offset price,
- 12 as of May 2023, based on the data that we have
- 13 collected at BloombergNEF, is \$9.5 a ton. For
- 14 comparison, right, the price of carbon in the EU
- 15 right now is flip flopping or alternating between
- 16 somewhere between \$80 and \$100 a ton.
- 17 So there's a huge way to go in terms of price
- 18 discovery, increasing prices in this market. And
- 19 again, emphasizing that companies first and
- 20 foremost decarbonize before buying these credits
- 21 rather than relying on them as a blanket Band-Aid
- 22 solution. Next slide, please.

- 1 And in general, in addition to the huge range
- 2 in prices, the huge range in geography, what we've
- 3 also observed at BloombergNEF is that the value
- 4 chain for carbon offsets is increasingly getting
- 5 more complex.
- 6 There is a lot going on in this diagram here.
- 7 You don't need to understand everything and I'm not
- 8 going to walk you through all of it. But I think
- 9 the important thing to note, right, is the middle
- 10 portion of this chart here.
- 11 If we were having this conversation three
- 12 years ago, all of these rating agencies at the
- 13 bottom, these third-party integrity initiatives,
- 14 like Chair Behnam mentioned before, like ICVCM and
- 15 VCMI, but also some of these groups that are using
- 16 satellite imagery and LiDAR drones to better verify
- 17 credits like Pachama, they were not -- they were
- 18 either very early stages or non-existent.
- And so, what we really need to do, right, is
- 20 continue to emphasize boosting the integrity of the
- 21 market. If you move to the next slide, please.
- 22 Again, just to re-emphasize, all of the

- 1 companies and organizations within the middle
- 2 portion of this chart are playing a massive role
- 3 here. And of course, you can see the CFTC at the
- 4 bottom of this red band here. So this is going to
- 5 be an incredibly important part of the market. And
- 6 supply and demand will not succeed unless we go
- 7 ahead and boost that integrity. And we've gone
- 8 ahead, and we've done the modeling and the
- 9 forecasting for this at BloombergNEF. So if you
- 10 move to the next slide, please.
- 11 Every year BloombergNEF produces a long-term
- 12 outlook for supply, demand, and prices for carbon
- 13 offsets under a number of different scenarios. The
- 14 one scenario I wanted to leave you all with before
- 15 the convening continues for the day is what we call
- 16 our voluntary market scenario.
- 17 I know the name is not very self-explanatory
- 18 but what it is saying is let's keep everything in
- 19 the voluntary carbon offset market the exact same
- 20 that it is today all the way out to 2050. What that
- 21 means is you have a wildly oversupplied market and
- 22 companies can buy credits anywhere in the world and

- 1 they can buy any type of credit.
- 2 It doesn't matter what vintage it is, whether
- 3 that project avoids or removes emissions, and where
- 4 in the world it's located. All of it is fair game
- 5 for a company to purchase on the road to net-zero.
- And what we found in this scenario is that the
- 7 dark red line here, demand, even as it grows, as
- 8 net-zero targets become more imminent it will never
- 9 grow fast enough to catch up with supply.
- 10 Your offset market is going to be oversupplied
- 11 all the way out to 2050 and as a result your
- 12 marginal price for a carbon offset is going to be
- 13 set by something much cheaper in the overall supply
- 14 curve; something that's also likely much lower in
- 15 integrity. If you move to the next slide, please.
- This is an example of our supply curve in 2050
- 17 in this voluntary market scenario. The x-axis is
- 18 your total supply in the offset market. And your y-
- 19 axis is your cost of carbon. And each individual
- 20 block in the supply curve of this staircase here is
- 21 a type of carbon offset supply broken out by
- 22 geography but then sector as well, based on the

- 1 colors. But what you can see is that demand in 2050
- 2 is only large enough to eat into a portion of the
- 3 supply curve.
- 4 And what that means is that all of your
- 5 investment into the supply in this market is going
- 6 to go to lower quality, lower integrity projects to
- 7 the left of this demand line. And all of the supply
- 8 that's higher quality that needs investment today
- 9 in order to scale up in the future, such as direct
- 10 air capture, but also high-quality nature-based
- 11 solutions, like reforestation, are not going to get
- 12 the investment that they need.
- 13 And so, in general, your price, your marginal
- 14 price for carbon offset, if we don't change
- 15 anything in the market, is going to remain at
- 16 around \$15 a ton for the next couple of years. And
- it's going to peek at \$35 a ton in 2050.
- 18 Again, I made that comparison to the EU ETS
- 19 before. We need dramatic change in terms of
- 20 regulating supply in this market in order to boost
- 21 integrity and ensure that prices rise to a level
- 22 that could influence change in companies.

1 And there are some other geo-political factors

- 2 that could impact this. If you want to go to the
- 3 next slide, please.
- 4 I mentioned before around the carbon
- 5 nationalism that we're seeing from companies. So
- 6 this year alone I mentioned the sub-Saharan African
- 7 countries like Zimbabwe, Zambia, Malawi, and Kenya
- 8 that have made announcements or debating making
- 9 announcements to control their own carbon markets.
- 10 And last year we saw Indonesia and India put
- 11 out temporary bans on the export of carbon credits.
- 12 One of the main drivers of this is they wanted to
- 13 assess how much abatement they need in order to
- 14 achieve their nationally determined contributions.
- And assessing how much more excess supply they
- 16 can export to companies and other countries around
- 17 the world. But the other driver, of course, again,
- 18 is to capitalize on this natural resource that they
- 19 now have of growing importance.
- 20 And this will have huge impacts if this
- 21 continues on the supply curve. So we estimate that
- 22 REDD+ or avoided deforestation, carbon offset

- 1 supply in 2050 can max out at 515 million tons on
- 2 an annual basis.
- 3 If you remove a 515 million block from this
- 4 chart here, what you're going to do is you're going
- 5 to shrink your supply curve. And you can do the
- 6 same for markets like Zimbabwe, India, and Zambia
- 7 as well. And what that's going to mean, right, is
- 8 that your marginal price will now be set by a more
- 9 expensive form of carbon credit. Next slide,
- 10 please.
- 11 And if you take that into account, if you
- 12 think about the bans that we see in markets like
- 13 India and Indonesia, you can see what that does to
- 14 our overall price scenario.
- So you have price for a carbon offset in 2050
- in no longer \$35 a ton, it's closer to \$55 a ton,
- 17 right. And so, I think another important message
- 18 that I want to leave you all with is, even if we
- 19 don't change anything in terms of the actual
- 20 infrastructure on the fundamentals of this market,
- 21 what you could see is countries and different
- 22 governments around the world make decisions that

- 1 could also have big ramifications on that carbon
- 2 offset market. Of course, the situation in Ukraine
- 3 is also another example of this. Next slide,
- 4 please.
- 5 And then, finally, let's just end on a
- 6 positive note, really quickly. What we're also
- 7 doing in our long-term outlook is we're forecasting
- 8 the potential market value for voluntary carbon
- 9 offsets all the way out to 2050.
- 10 An apology, I see the x-axis is cut off a
- 11 little here somehow. But the left is 2030 and right
- 12 side is 2050. And as Chair Behnam mentioned before,
- 13 the value of the market today is estimated at \$2
- 14 billion. In that voluntary markets scenario, we
- 15 estimate that it could reach \$15 billion in 2030
- 16 and just under \$200 billion in annual market value
- 17 in 2050.
- 18 Conversely, if we look at a removal only
- 19 carbon offset market, so your supply only comes
- 20 from projects that remove, store, or sequester
- 21 carbon, such as reforestation but also technology-
- 22 based removal like direct air capture, you can see

- 1 that your market value grows to just under \$50
- 2 billion in 2030 and just under half a trillion
- 3 dollars in 2050.
- 4 So this is an incredibly important market.
- 5 It's going to play in an essential role in the
- 6 corporate decarbonization story and it's really
- 7 important, right, as it grows in prominence, as it
- 8 grows in popularity, that we make the proper
- 9 necessary actions today to influence integrity and
- 10 ensure that any new supply that's coming into the
- 11 market is supply that could be trusted by buyers
- 12 out there.
- 13 Thank you everyone so much for your time. And
- 14 now I'll turn it over for any questions that you
- 15 have.
- MR. BEHNAM: Kyle, thank you. That was
- 17 tremendous. Appreciate the time and the effort that
- 18 you put into those charts. And like I said, a
- 19 little bit of level setting for the afternoon's
- 20 discussion.
- 21 So now going to open it up to the panel. As
- 22 Abigail mentioned, if you do have a question, can

- 1 you just lift your name tent and I'll call on you.
- 2 If not, we'll move on. But -- okay. Kyle, thank
- 3 you. No questions. That means you did a fantastic
- 4 job. Appreciate you --
- 5 MR. HARRISON: Perfect. Thanks everyone.
- 6 MR. BEHNAM: Navigating the fire drill, too,
- 7 over in London. So now we're going to turn over to
- 8 the first panel of the day. And I'm going to look
- 9 to our friends here to my left -- to the U.S.
- 10 federal government panel. Echoing President Biden's
- 11 common refrain, this is a whole-of-government
- 12 challenge and one that demands a whole-of-
- 13 government approach. So we're very honored and
- 14 pleased to have a few members of the federal
- 15 government here to share some of the work that
- 16 they've been doing at a department level and what
- 17 they're doing to, sort of, conquer this task and
- 18 the complexity of transitioning to a net-zero
- 19 economy. And ultimately what is needed to have a
- 20 cohesive approach to the voluntary carbon market.
- 21 So with that, very pleased to introduce Carol
- 22 Petsonk, Assistant Secretary of Aviation and

- 1 International Affairs. And welcome Carol back from
- 2 the U.S. Department of Transportation. Also,
- 3 welcoming back Sean Babington, Senior Advisor for
- 4 Climate Office to the Secretary of the U.S.
- 5 Department of Agriculture. D. Wilson Ervin,
- 6 Counselor, Domestic Finance, U.S. Department of
- 7 Treasury. And with us virtually is Molly Peters-
- 8 Stanley, a negotiator for the U.S. Department of
- 9 State. So with that, Annie, if you're ready, I'm
- 10 going to start with you.
- 11 MS. PETSONK: Thank you very much. Thank you,
- 12 Chair Behnam and thanks to each of the
- 13 commissioners. I particularly want to thank
- 14 Commissioner Johnson. Your expression of the
- 15 connection to what happened in your home area was
- 16 very powerful.
- 17 And the irony that we are holding this
- 18 convening today on a day when there are record
- 19 temperatures in Phoenix. There has been terrible
- 20 flooding in New England. And just this past
- 21 weekend, loss of life in Pennsylvania due to
- 22 flooding puts the urgency of the problem uppermost

- 1 in our minds.
- 2 We greatly appreciate the work, Chairman
- 3 Behnam, that you and your team have outlined, that
- 4 you have underway. We think that it is most
- 5 welcome.
- 6 The Department of Transportation takes the
- 7 climate challenge very seriously. We have issued a
- 8 blueprint for reducing emissions from the
- 9 transportation sector, which as many colleagues
- 10 here know is the nation's largest greenhouse gas
- 11 emitting sector. And we play a very active role
- 12 across many different aspects of the transportation
- 13 sector in reducing emissions directly from the
- 14 different modes of transportation.
- 15 And I would call participants attention to the
- 16 decision last week by the International Maritime
- 17 Organization's Marine Environmental Protection
- 18 Committee, to establish a greenhouse gas emission
- 19 strategy with a goal of net-zero emissions by 2050
- 20 and interim steps. And also, its prioritization of
- 21 a further investigation of measures to meet that
- 22 goal including market-based measures.

- 1 I'd also highlight recent steps in the
- 2 International Civil Aviation Organization, which is
- 3 preparing for the third global civil aviation
- 4 alternative fuels meeting that will be held in
- 5 United Arab Emirates later this year.
- 6 There is considerable focus across the
- 7 aviation sector on meeting the goals announced and
- 8 agreed to in ICAO last October. Namely, a long-term
- 9 aspirational goal of net-zero emissions by 2050 and
- 10 a strengthening of ICAOs Carbon Offsetting and
- 11 Reduction Scheme for International Aviation
- 12 (CORSIA).
- And I believe that one of the other panelists,
- 14 Molly Peters-Stanley will comment further on
- 15 CORSIA. I just want to mention that the
- 16 administration regards CORSIA as a very important
- 17 element of the overall climate policy and has
- 18 recently enunciated and underscored the importance
- 19 of that view.
- 20 With regard to voluntary carbon markets, we
- 21 agree that they have tremendous potential but also
- 22 pose significant risk.

- 1 We're very pleased to hear that the Commission
- 2 is convening and is exercising its authorities with
- 3 regard to anti-fraud and anti-manipulation. And in
- 4 the spot markets and particularly also its
- 5 oversight in the futures market.
- For us what's essential here in order to
- 7 ensure that the promise and potential of voluntary
- 8 carbon markets is achieved in assisting all
- 9 sectors, including the transportation sector, in
- 10 meeting ambitious targets is the integrity
- 11 underlying the system.
- 12 And for that I wanted just to highlight one
- 13 term that I heard earlier this morning and that is
- 14 looking to other commodities that the Commission
- 15 has experience with. And earlier was emphasized
- 16 durable commodities.
- 17 The question of what is a carbon offset credit
- 18 in relation to or in comparison to durable
- 19 commodities is, I think part of the fundamental
- 20 challenge that our work together here faces.
- 21 For that we are interested in the developments
- 22 that you've outlined in IOSCO, in their public

- 1 consultation because markets all over the world are
- 2 going to be facing these challenges. And certainly,
- 3 with a mechanism like CORSIA, which applies
- 4 globally, there is interest across many nations in
- 5 the work you're undertaking.
- Further, we wanted to emphasize our
- 7 willingness to participate in whatever way we can
- 8 to be helpful here across each of our modes of
- 9 transportation, which span, of course, surface
- 10 transportation as it moves rapidly to electrify and
- 11 to achieve reductions in emissions through things
- 12 like a topic that is of great interest in our
- 13 building, low-carbon pavement. Low-carbon pavement
- 14 is pavement that on a lifecycle basis has lower
- 15 emissions than conventional pavement.
- So this whole question of lifecycle emissions
- 17 and the opportunities for reducing emissions along
- 18 the course of the lifecycle is one that in the
- 19 transportation sector is receiving a lot of
- 20 attention.
- 21 If the reductions achieved on a lifecycle
- 22 basis enter into voluntary carbon markets, there is

- 1 a risk that those reductions could be double
- 2 claimed. We're not saying they cannot enter, but
- 3 that care needs to be taken to ensure that claims
- 4 about reductions in lifecycle emissions, if they
- 5 enter into markets, are not actually double sold or
- 6 triple sold or otherwise packaged in ways that
- 7 would undermine the integrity of the underlying
- 8 asset.
- 9 Let me conclude by saying that we're very
- 10 pleased to be invited here. We look forward to the
- 11 remarks of our fellow panelists and are happy to
- 12 answer questions. Thank you.
- 13 MR. BEHNAM: Thanks, Annie, for those
- 14 comments. Sean, we'll turn it to you and the USDA.
- 15 MR. BABINGTON: Thank you, Chairman and fellow
- 16 commissioners. Pleased to be with you today and
- 17 certainly all the stakeholders around the table and
- 18 in the audience today. Good to see some -- some
- 19 colleagues and friendly faces.
- 20 USDA really appreciates the CFTC's interest in
- 21 this important work. Certainly, applaud the
- 22 Commission's work in the broader climate space,

- 1 including the aforementioned subcommittee on
- 2 climate-related market risk.
- 3 At the Department of Agriculture, we agree
- 4 with the national academies, the UN, other major
- 5 scientific bodies that are primary efforts in the
- 6 focus on mitigating climate change needs to be
- 7 driving steep emissions cuts from key emitting
- 8 sectors.
- 9 However, voluntary carbon markets dealing in
- 10 high integrity credits may play a role in
- 11 especially hard to abate sectors in meeting
- 12 emission reduction targets when included as more of
- 13 a comprehensive approach and mitigation plan.
- 14 USDA has important bodies of work contributing
- 15 to meeting those reductions, importantly in the
- 16 agriculture and forestry sectors. As well as the
- 17 sectors responsible for the majority of emissions,
- 18 including energy and transportation we just heard
- 19 from Annie about.
- This work includes, among other places at the
- 21 department, USDA rural development mission area,
- 22 which provides hundreds of millions of dollars

- 1 annually in grants and loans to install renewable
- 2 energy systems, drive efficiency upgrades.
- 3 We also have a research farm production
- 4 mission areas, which pursue development and
- 5 deployment of cleaner transportation fuels derived
- 6 from ag and forestry feedstocks, including jet
- 7 fuel. And I would be remiss if I didn't mention
- 8 that the Secretary -- Secretary Vilsack -- has a
- 9 keen interest in sustainable aviation fuel and the
- 10 potential offered there for mitigation in the
- 11 future.
- 12 Outside of the dialogue over the electricity
- 13 and transportation sectors, we also have equities
- 14 in the traditional agriculture and forestry
- 15 sectors. And they have key differences when
- 16 discussed in the context of climate.
- 17 Agriculture had the distinction of being a
- 18 sector that's both uniquely vulnerable to climate
- 19 change and a domestic source of emissions, roughly
- 20 10 percent of our domestic emissions. But we have
- 21 the potential to be an even smaller source or even
- 22 a sink with additional research and investment.

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1 Domestic forest spanning both public and
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- 2 private forest lands are already a carbon sink and
- 3 could do even more in this arena with the right
- 4 policy. And at USDA we're pursuing a department-
- 5 wide approach to drive these nature-based solutions
- 6 and harness the power of the land sector to reduce
- 7 emissions and store carbon. And we certainly
- 8 heard a little about that during the Bloomberg
- 9 presentation that proceeded this panel.
- 10 So however, the sources and sinks of
- 11 greenhouse gasses in the ag sector are diffuse,
- 12 they're spanning millions of acres, thousands upon
- 13 thousands of farms. And each of them are a
- 14 relatively modest source or sink on their own.
- 15 For the most part our authority in this arena
- 16 not as a regulator but instead as an entity that
- 17 can provide incentives. A voluntary, flexible,
- 18 incentive-based policymaker to drive increased
- 19 adoptions of a lot of these sustainable climate
- 20 smart practices that we know can drive nature-based
- 21 solutions.
- The department's doing that work through our

- 1 existing slate of conservation programs. Some folks
- 2 may be familiar around the table. Other may not.
- 3 But programs like USDA's environmental quality
- 4 incentives program, conservation stewardship
- 5 program and others.
- 6 As well as new initiatives that have been
- 7 undertaken during this administration, including
- 8 the department's Partnership for Climate Smart
- 9 Commodities, which were also mentioned during the
- 10 opening remarks. This is a \$3.1 billion investment
- 11 launched by Secretary Vilsack in 2022. We've made
- 12 141 awards under this program.
- 13 For pilot projects that create market
- 14 opportunities for U.S. agriculture and forestry
- 15 products and commodities produced using climate
- 16 smart practices. Importantly, each grant, each
- 17 application had to include innovative and cost-
- 18 effective methods for quantification, monitoring,
- 19 verification of greenhouse gas and carbon
- 20 sequestration benefits.
- 21 And several other key priorities were also
- 22 considered in project selection, including, and

- 1 very importantly, a focus on equity and
- 2 historically underserved producers as we made those
- 3 grant selections.
- We're going to learn a great deal through this
- 5 program, including details to be very relevant and
- 6 constructive in the voluntary market integrity
- 7 dialogue that we're having today.
- 8 Beyond the partnerships program, which I just
- 9 outlined, USDA continues to invest in foundational
- 10 science and data necessary for scaling up voluntary
- 11 adoption of these nature-based solutions and
- 12 climate smart ag and forestry practices.
- Just last week Secretary Vilsack partnered
- 14 with a National Climate Adviser Zaidi to announce a
- 15 \$300 million investment under the Inflation
- 16 Reduction Act to increase our ability to do greater
- 17 measurement, monitoring, reporting and
- 18 verification, known as MMRV, colloquially, in
- 19 greenhouse gas emissions and reductions from
- 20 agriculture.
- I won't go through all of the separate work
- 22 streams that comprise that \$300 million investment

- 1 but among other things, we'll establish a landmark
- 2 soil carbon monitoring and research network,
- 3 thousands of sites across the country, improve our
- 4 data management infrastructure.
- 5 In the land sector you often times have data
- 6 that are very valuable but can't talk to one
- 7 another and can't be cross -- sliced and diced to
- 8 really make sense of it. So we'll be investing in
- 9 that with that \$300 million as well.
- 10 Importantly, in the forestry side, we're
- 11 taking steps to improve the forest service's
- 12 globally recognized forest inventory and analysis
- 13 program to better account in the carbon fluxes in
- 14 the forested landscape.
- 15 And everything we're doing is really grounded
- 16 in this focus on data, sound science, MMRV. Simply
- 17 put, and we've heard this mentioned already, if the
- 18 carbon removals and emissions reductions that we're
- 19 pursuing and promoting aren't real, that is both
- 20 bad for the climate but it's also bad for the
- 21 integrity of our work at the department and any
- 22 external markets that are pursuing those same types

- 1 of investments.
- 2 Given the sizeable unrealized potential in
- 3 these nature-based solutions, coupled with how
- 4 expensive we've found some of these adoptions to
- 5 be, we need to embark upon a really thoughtful
- 6 discussion.
- 7 And today's convening is important part of
- 8 that. About how to finance these climate smart
- 9 practices and whether the private sector efforts
- 10 may be a piece of that puzzle. These markets have
- 11 varying standards, varying degrees of rigor and
- 12 monitoring, as we've heard about. So using science
- 13 recognized tools to verify this work is going to be
- 14 critical.
- 15 It bears mentioning, as I close, that USDA
- 16 does have some statutory authority in this arena.
- 17 Section 2709 of the 2008 Farm Bill relates to
- 18 environmental markets and directs USDA to help
- 19 facilitate farmer, rancher, forest landowner
- 20 participation in these markets. And we'd certainly
- 21 welcome continuing dialogue with CFTC, other
- 22 stakeholders about how to fully embrace and

- 1 potentially pursue greater activity in that
- 2 authority.
- 3 And then in December, which is a new piece of
- 4 information since our convening last summer at
- 5 CFTC, Congress passed two pieces of legislation
- 6 that are also relevant here. One being the Growing
- 7 Climate Solutions Act, which was a bipartisan
- 8 effort in the house and the senate. And another
- 9 effort called the Sustains Act, which allows for
- 10 the acceptance and use of private funds to address
- 11 climate change and other resource priorities via
- 12 public and private partnerships.
- 13 This fall, USDA will release their first
- 14 assessment under the Growing Climate Solutions Act,
- 15 one of those, sort of, the first steps in
- 16 implementing that bill. And will serve as a
- 17 building block for future resources and learnings
- 18 that can reduce barriers to entry for farmers,
- 19 ranchers, forest landowners, into these types of
- 20 markets.
- 21 As the conversation continues to unfold USDA
- 22 is going to continue to make critical investments

- 1 to support MMRV and it's in -- we feel it's in all
- 2 of our best interests to ensure the integrity of
- 3 greenhouse gas mitigation as we position these
- 4 sectors that we deal with at USDA, to be part of
- 5 the solution, whether through government incentives
- 6 programs or private sector efforts.
- 7 Again, appreciate the opportunity to be here,
- 8 speak on behalf of USDA and look forward to the
- 9 discussion.
- 10 MR. BEHNAM: Thanks, Sean, and appreciate
- 11 contributions from the department. Dean, I'll hand
- 12 it over to you and comments from the Treasury
- 13 Department.
- MR. ERVIN: First of all, thanks to you
- 15 Chairman Behnam. Thank you. Thanks to my colleague
- 16 for turning on my mic. Second of all, thanks to you
- 17 Chairman Behnam, to the commissioners and CFTC
- 18 staff for your leadership in this issue and for
- 19 hosting this event today.
- The voluntary markets, or VCMs, have an
- 21 enormous potential. They're currently quite small
- 22 in the financial context, estimated at only \$2

- 1 billion last year. But many predict that it could
- 2 reach \$50 billion or even \$100 billion in the next
- 3 decade or so.
- 4 At that scale, the VCMs have the potential for
- 5 real impact. As a simple example, a market with \$50
- 6 billion of annual credible retirements at \$10 a ton
- 7 could reduce human emissions by five gigatons or 10
- 8 percent of current emissions.
- 9 DOE researchers recently estimated that we'll
- 10 need roughly twice that amount, about 10 gigatons
- 11 per annum to keep 1.5 degrees alive in future
- 12 decades. A large, well-functioning market will also
- 13 provide market participants including farmers,
- 14 ranchers, technologists, and corporations with a
- 15 powerful tool to achieve their individual
- 16 objectives.
- 17 But the news flow of the last year is mostly
- 18 focused on the problems in this market. Some recent
- 19 reviews have suggested that certain offsets may be
- 20 only delivering half or a quarter or even a tenth
- 21 of the reductions that were promised.
- 22 Last week a big airline CEO, for example,

- 1 dismissed the vast majority of nature-based credits
- 2 as "fraud" and several large buyers have recently
- 3 backed away from the market. The price for
- 4 greenhouse gas credits on the CME future's
- 5 exchange, for example, has dropped by around 90
- 6 percent since the last convening last summer with
- 7 some contracts even dipping below \$1 per ton.
- 8 The pricing for a ton of CO2 can bring by as
- 9 much as 100 times between credits that are
- 10 perceived as high quality compared to others that
- 11 are perceived as low quality. I spent over three
- 12 decades in financial markets and can't recall any
- 13 market with that kind of price disparity for a
- 14 durable commodity.
- 15 Clearly, there's some important and urgent
- 16 repair work that needs to be done. The good news is
- 17 there are a number of participants who are engaged
- 18 in just that right now. The CFTC has been looking
- 19 to use its authority, as discussed earlier today,
- 20 to promote market integrity. And it's been clear
- 21 that it will pursue fraud aggressively.
- Other parts of the U.S. government are

- 1 contributing with elements like better satellite
- 2 monitoring, international negotiations, technology
- 3 investments, or supporting improved agricultural
- 4 practices.
- 5 Private sector groups such as the ICVCM have
- 6 also been active on the question of credit quality.
- 7 They're looking to make sure that a ton promised is
- 8 a ton delivered and the permanence and
- 9 additionality are not just words.
- 10 But this is still work in progress and there
- 11 are many important decisions still to come. At
- 12 Treasury, we're following this work closely and
- 13 hope to learn more about the progress later today.
- 14 While there will always be some elements that
- 15 naturally differ between elements like forest
- 16 preservation and technological removals, there is
- 17 an underlying need for a strong baseline around
- 18 minimum quality. That is essential for any market
- 19 to work properly and for buyers and sellers to have
- 20 some assurance about basic execution.
- 21 At Treasury we're also following initiatives
- 22 that look to improve market function, such as the

- 1 work at IOSCO under Chairman Behnam's leadership
- 2 has also been doing. For example, we've heard
- 3 buyers complain that sourcing review costs are too
- 4 high, in some cases larger than the credits
- 5 themselves. We've recently started to see a few
- 6 initiatives that are trying to improve this
- 7 transparency and improve access. And reforms in
- 8 this area will be important for the market to
- 9 develop properly.
- 10 All of this will be hard work. The U.S.
- 11 Treasury will work to support positive and
- 12 necessary reforms to help address the challenges
- 13 and opportunities in VCMs. We want to see this
- 14 market function properly so that the VCMs can live
- 15 up to their potential, both for the planet and for
- 16 the participants who are run a reliable and
- 17 affective market.
- 18 I look forward to learning more in the rest of
- 19 the day. Thank you for your attention.
- 20 MR. BEHNAM: Thanks, Dean. Appreciate it. And
- 21 finally, we're going to go to the State Department
- 22 and hear from Molly, who as I mentioned earlier is

- 1 with us virtually. So Molly, hopefully you're with
- 2 us and you can begin your comments.
- 3 MS. PETERS-STANLEY: Hi. I hope you all can
- 4 hear me. And I wanted to start by saying that it's
- 5 great to be with you today even if remotely. And
- 6 thank you to the CFTC for inviting the State
- 7 Department to be a part of this conversation.
- 8 I come at this conversation from my role
- 9 leading our work on international carbon markets
- 10 and carbon pricing, including for the State
- 11 Department climate office and for Secretary Kerry.
- 12 I've been in this role since 2014 and before
- 13 that spent several years directing the Ecosystem
- 14 Marketplace work on the state of the voluntary
- 15 carbon markets reports. A surprising amount of
- 16 external work that involves carbon credit markets,
- 17 whether that's domestic or international or whether
- 18 the markets are designed for voluntary or
- 19 compliance purposes.
- 20 That work intersects with the State
- 21 Department's work regularly. This is because any
- 22 success or struggles with robustness in the carbon

- 1 markets have a direct impact on the ambitious
- 2 implementation of countries contributions under the
- 3 Paris Agreement.
- 4 So we've always actively advocated for strong
- 5 fundamentals for designing and also using carbon
- 6 crediting certification standards, also emissions
- 7 trading systems. Whether these are used by
- 8 countries toward Paris Agreement goals or by
- 9 airlines toward UN ICAO's global compliance space
- 10 system that relies in part on carbon offsetting as
- 11 Annie mentioned earlier.
- But that work is why we dedicate a growing
- 13 amount of time and attention to VCMs and for two
- 14 reasons in particular. First, because we recognize
- 15 their potential to channel new private sector
- 16 investment toward robust mitigation actions that
- 17 generate verified climate results.
- 18 We see all of that as a good thing. And this
- 19 is where and why you see the State Department
- 20 engaging directly in public-private initiatives
- 21 like the LEAF Coalition or the Energy Transition
- 22 Accelerator that was announced late last year.

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1 Initiatives like these can provide models for
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- 2 governments that want to set out key criteria and
- 3 enabling conditions for sound VCM engagement and to
- 4 champion businesses that step up to provide
- 5 ambitious levels of private climate finance on the
- 6 basis of those criteria and expectations.
- 7 And these experiences are why we track and
- 8 support initiatives like the Voluntary Carbon
- 9 Market Integrity Initiative that aim to inform the
- 10 private sector's credible use of carbon credits
- 11 toward net-zero targets.
- 12 This growing attention to how credits are used
- 13 is indispensable to a sound VCM. But the second
- 14 reason that we engage is because most of the work
- 15 on VCM integrity unavoidably intersects with our
- 16 long-standing technical work on the environmental
- 17 integrity of standards that certify carbon credits,
- 18 in particular under ICAO.
- 19 But also, in developing the new Article 6 for
- 20 crediting mechanism under the Paris Agreement. We
- 21 approached and we continue to see ICAOs criteria
- 22 for crediting standard eligibility as a strong

- 1 global benchmark for carbon credit quality.
- 2 The standards that underpin those CORSIA
- 3 eligible credits are the same crediting standards
- 4 that underpin the vast majority of credits that are
- 5 transacted by voluntary buyers in the United States
- 6 and elsewhere.
- 7 So we also actively follow supply-side quality
- 8 initiatives such as ICVCM and encourage these to
- 9 reinforce and not undermine those existing
- 10 standards and principles that governments
- 11 themselves have already set out.
- 12 With all of that in mind, three quick points
- 13 to highlight that are often raised in our recent
- 14 work. First, while it's important to actively
- 15 address, sort of, knowing historical deficiencies,
- 16 we should also be talking about what's needed in
- 17 the future and how that relates to current market
- 18 activities.
- 19 For example, the types of new methodologies
- 20 that are being approved currently without sunset
- 21 dates for their use and how that lines up against
- 22 what we know needs to be a rapid transition to a

- 1 prioritization of removals credits. That may be
- 2 more of a policy consideration than a CFTC quality
- 3 consideration but it's still an important one
- 4 because there's a lot of dissidence right now.
- 5 Second, while historical challenges to credit
- 6 integrity are generally recognized by now related
- 7 to additionality, permanence, ICAO and Paris
- 8 experts have issues like leakage and social and
- 9 environmental impact assessment and credible
- 10 baseline setting at the top of their list for
- 11 review and much needed revision. So it's strongly
- 12 advised staying abreast of that work as it
- 13 advances.
- 14 And finally, just to note the emerging
- 15 distinctions in how credits are used. For example,
- 16 as evidence of climate results in exchange for
- 17 private sector climate finance. As opposed to
- 18 transactions for credits that are going to be used
- 19 to offset emissions.
- These distinctions are likely to be enabled in
- 21 crediting and registry systems. So it will be
- 22 important to track any further work in that area on

- 1 quality credit creation that the CFTC might
- 2 undertake.
- 3 I'm happy to be a part of that discussion in
- 4 the future. Thank you.
- 5 MR. BEHNAM: Thanks Molly. Appreciate that.
- 6 Now we're going to open it up for any questions for
- 7 the government panel or comments more generally,
- 8 either in person or virtual. Sasha -- Sasha Mackler
- 9 from Bipartisan Policy [Center]. Please.
- 10 MR. MACKLER: Thank you Chairman and I really
- 11 appreciate the recognition and want to thank the
- 12 CFTC for the important work you're doing on these
- 13 issues and for the panelists for explaining your
- 14 role in this topic right now and how you're
- 15 thinking about this whole set of issues around the
- 16 voluntary carbon markets.
- 17 My name is Sasha Mackler. I lead the energy
- 18 program at the Bipartisan Policy Center. And like
- 19 you we are becoming increasingly focused on the
- 20 role of voluntary carbon markets and helping to
- 21 drive the energy transition and deal with the risks
- 22 of climate change.

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1 We also appreciate that this is very early
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- 2 days for this marketplace and that there are a lot
- 3 of questions that need to be answered as this
- 4 market scales and to ensure that it scales in a
- 5 climate beneficial way.
- 6 You know, one of the key things that we are
- 7 focused on currently is what is the federal role in
- 8 ensuring quality, right. And we're starting to talk
- 9 a little bit about that here. And in this respect
- 10 the Bipartisan Policy Center and Carbon Direct
- 11 recently released a report, jointly, on the role
- 12 the federal government in driving carbon credit
- 13 quality.
- 14 In that report we outline five different
- 15 scenarios that span a spectrum of no government
- 16 intervention, where the private sector really just
- 17 does it all itself to -- in the other extreme
- 18 scenario with significant regulatory intervention
- 19 by the federal government.
- 20 And I think there are two basic concerns that
- 21 spur these questions. First of all, as we've heard
- 22 about, consumers, shareholders and the climate are

- 1 all at risk if corporate investments in carbon
- 2 credits do not deliver real and measurable
- 3 emissions reductions or removals.
- 4 Secondly, corporations that currently buy low-
- 5 carbon credits may be unintentionally miss
- 6 allocating their resources instead of investing
- 7 them in activities with real climate benefits. So
- 8 the goal of government intervention approaches
- 9 outlined in the work that we have done is to
- 10 protect credit buyers from low quality or
- 11 fraudulent credits and to enhance credit supplier's
- 12 ability to develop high quality credits in line
- 13 with robust protocols.
- 14 And so, then the question that I would just
- 15 like to pose to the panelists if I may, is how are
- 16 your departments and agencies thinking about either
- 17 individually or, I think, maybe even more
- 18 importantly, collectively across the federal
- 19 government about your role in improving credit
- 20 quality along the value chain from upstream credit
- 21 development to the downstream buying?
- Is there -- is there coordination? Because

- 1 this market will ultimately be something that needs
- 2 to work regardless of the interest of particular
- 3 agencies. I would just love it if you could, sort
- 4 of, expand on that a little bit. Thank you. Thank
- 5 you for the time.
- 6 MR. ERVIN: I'll give you a preliminary answer
- 7 on that. And I'd say it's work that we are
- 8 currently engaged in. I think it's something that
- 9 as President Biden set out some of the climate
- 10 goals for this administration there was a lot of
- 11 department-by-department work.
- 12 And I'm very new to this work. I've been in
- 13 Treasury now for three months so, I'm still
- 14 learning the landscape. But that has recently moved
- 15 into much more interagency work. That I think there
- 16 are important initiatives in DOT, at State, USDA,
- 17 but also many other agencies, for example,
- 18 Department of Energy.
- 19 So trying to understand what work is going on
- 20 in each of those places and trying to figure out
- 21 where are the places where we can learn from each
- 22 other, coordinate better and maybe leverage some of

- 1 those efforts. I think that may be able to help
- 2 both in compliance areas and standards areas but
- 3 also to help lift some of the standards in the
- 4 voluntary market.
- 5 MS. PETSONK: Thanks. Let me just add to that
- 6 by saying that part of what the interagency process
- 7 is doing is looking at what are the authorities
- 8 that the different agencies have. And those vary
- 9 agency to agency.
- 10 And for example, the Federal Trade Commission
- 11 has recently been updating its green guides in what
- 12 constitutes false, misleading, and deceptive
- 13 advertising in products. And looking in terms of
- 14 environmental marketing claims. And that's just one
- 15 example.
- 16 I'm not speaking for the FTC by any means, but
- 17 agencies' set of authorities -- those authorities -
- 18 number of those authorities are statutory. Some
- 19 of the authorities are regulatory. So first
- 20 collecting what are the different authorities that
- 21 agencies have and standing those next to where are
- 22 the issues arising.

- 1 And in doing that, I want to emphasize that
- 2 the federal agencies have roles, but our roles are
- 3 connected. Looking more locally, state governments
- 4 and localities also have authorities. And in
- 5 particular at the state level there's been a number
- 6 of very interesting developments and activities
- 7 there. There are state-level markets that are
- 8 relevant.
- But also looking more broadly,
- 10 internationally, and that's where some of the work
- 11 that Molly Peters-Stanley was emphasizing where
- 12 there's an overarching framework internationally at
- 13 the Paris Agreement and its Article 6 and related
- 14 quidance.
- 15 And then, of course, as I mentioned, ICAO and
- 16 potentially developments under the IMO. So those
- 17 multi-level efforts need to be examined in our
- 18 interagency discussion. And that is, in fact, what
- 19 we're doing. Thanks.
- 20 MR. BEHNAM: Thanks Annie and Dean as well.
- 21 Dirk from IETA, comment or question, please.
- MR. FORRISTER: Yeah. Just a quick question

- 1 and I guess I couldn't let this opportunity pass
- 2 with both Annie and Molly here. And this follows
- 3 nicely, I think, on Sasha's point.
- I'm curious about, I think, for many of the
- 5 players in the voluntary carbon markets right now,
- 6 part of what they're trying to do is emulate what
- 7 would happen in a compliance market if we had one.
- 8 And frankly, for my organization, that's still
- 9 the priority in the United States. We'd rather see
- 10 a compliance market. But we don't have that
- 11 uniformly in the U.S. The closest thing we have,
- 12 frankly, is imprimatur of federal government
- 13 engagement through CORSIA where there a set of
- 14 voluntary standards that have been approved for use
- 15 in of kind of a compliance mode.
- The ART Trees model, which Molly talked to
- 17 that the U.S. government has been involved in. And
- 18 now the ETA, which is a new -- this is the Energy
- 19 Transition Accelerator. It's in development. We
- 20 don't really know what that standard will look
- 21 like.
- But it's one that will have at least some

- 1 involvement from the U.S. federal government. So
- 2 I'm sort of curious on your earlier points,
- 3 Chairman, about the underlying. How much can we
- 4 expect from the U.S. federal government in sort of
- 5 providing those very benchmarks. Because I know
- 6 the ICVCM is benefiting from what has already
- 7 happened in CORSIA and will likely acknowledge some
- 8 of that in sort of accelerating the ability to
- 9 work. But is there more we can expect and is that
- 10 the way we should view these activities in those
- 11 particular asset areas as sort of the next closest
- 12 thing to a signal of what is veracity in terms of a
- 13 level that you would deem suitable for compliance.
- MS. PETERS-STANLEY: If my mic is on, I can
- 15 take a quick stab at that.
- MR. BEHNAM: Yeah. We got you, Molly.
- 17 MS. PETERS-STANLEY: And I think the previous
- 18 question as well. Sometimes it feels like being an
- 19 outlier in a panel like this where most panelists
- 20 are regulators. Whereas the State Department, as
- 21 Dirk has noted, typically pursues softer approaches
- 22 to influencing carbon market quality. And that's

- 1 just the nature of the State Department.
- But I wouldn't discount the effectiveness of
- 3 that soft influence when it comes to engagement in
- 4 international standard setting in multi-lateral
- 5 forums but also where we work with other countries
- 6 bilaterally and regionally to seek alignment across
- 7 the principals that we are agreeing.
- 8 And how they're actually implemented. The G7
- 9 principles for high integrity carbon markets were
- 10 released a few months ago. Those are a strong
- 11 indication of where we see certain growing
- 12 alignment around some of these efforts towards soft
- 13 influence of carbon markets.
- 14 And when I say alignment, there are some areas
- 15 within the G7 principles that speak to demand side
- 16 expectations at a principle level. But some of
- 17 those principles do draw from the early work that
- 18 was done under the LEAF Coalition. And what is
- 19 emerging now in the Energy Transition Accelerator
- 20 criteria because other governments also welcomed
- 21 those concepts.
- That said, we have always advocated for the

- 1 use of strong existing standards that may be
- 2 outside of direct administration of a government
- 3 agency itself. You see that model in CORSIA and we
- 4 have been taking a similar approach to the emerging
- 5 demand side standards, at least when it comes to
- 6 our work on ETA and the LEAF Coalition and these
- 7 types of bilateral engagements.
- 8 Obviously, can't speak for the regulatory
- 9 agencies that are actually developing rule sets
- 10 that would, you know, sort of directly relate to
- 11 some of those concepts that are being worked out
- 12 under VCMI.
- But the -- it is ideal if those external
- 14 standard setting bodies are setting sufficiently
- 15 high bars that they can be relied upon in a variety
- 16 of context, including things like ETA. But also, as
- 17 regulators consider what types of steps they may
- 18 need to take to ensure that they're applied
- 19 uniformly.
- 20 MR. ERVIN: Maybe just to expand on one
- 21 element of this. Molly mentioned the ART Tree
- 22 Standard, which is an attempt that the U.S.

- 1 government participated in with a number of other
- 2 countries and with a big swath of the private
- 3 sector.
- 4 That is something that was trying to address
- 5 some of the issues we faced on the voluntary carbon
- 6 markets. For example, issues around leakage. That
- 7 if you build a project here does deforestation
- 8 simply move a couple yards to the left?
- 9 And by adopting a jurisdictional standard, and
- 10 there are a number of people in this room who are
- 11 part of trying to build that system, you can start
- 12 to address some of those issues like baselining,
- 13 like leakage, in potentially a more fundamental
- 14 way.
- Now, that is a new, I guess your questions
- 16 about the future, but it's not that old. It's only
- 17 a year or two old. I think that one is very much in
- 18 the we need to build it up type of process. We need
- 19 to get more of those agreements put in place.
- But we've already seen, I think, some
- 21 encouraging developments there. Some good growth.
- 22 And I think gives a good example of how creating a

- 1 new standard with some innovation but one that's
- 2 based on sound science and good economics can help
- 3 move the world forward a little bit.
- 4 MS. PETSONK: I'll just add quickly that, if I
- 5 might, that the decision of the Marine
- 6 Environmental Protection Committee of the IMO
- 7 earlier this month, specifically refers to work
- 8 done by ICAO.
- 9 So I think that what we're seeing is where
- 10 governments have put a set of standards in place,
- 11 and CORSIA is a set of standards and recommended
- 12 practices, or SARPs, to give you an aviation
- 13 acronym. Acronym from the aviation arena.
- 14 That these can serve as a basis, not
- 15 necessarily for absolute replication, but let's not
- 16 -- we don't have to reinvent that particular wheel.
- 17 We can build on it and draw lessons learned from
- 18 it.
- 19 MR. BEHNAM: Thanks Annie. Got a question from
- 20 Todd Phillips, the Roosevelt Institute.
- 21 MR. PHILLIPS: Thank you. I've heard a lot of
- 22 the panelists talk about the high-quality nature of

- 1 CORSIA offsets. One of the derivatives that allows
- 2 CORSIA offsets to be delivered, the CBL Global
- 3 Emissions Offsets futures contract is currently
- 4 trading at about \$1.37, which tells me that the
- 5 market does not necessarily see the CORSIA offsets
- 6 that are being produced as high-quality.
- 7 So my question is where is the mismatch? Is it
- 8 the standards? Is it that the offsets being
- 9 produced are not complying with the standards? Just
- 10 what can be done to, I'd say, increase the price
- 11 there so that the market sees it as a legitimate
- 12 offset?
- 13 MS. PETSONK: Thank you.
- 14 MS. PETERS-STANLEY: It's a good question and
- 15 one we get a lot. I can -- I don't know if Annie
- 16 was planning to speak first, but I can -- I can
- 17 take a stab at this one. I would suggest that, you
- 18 know, where are your seeing lower prices for CORSIA
- 19 credits on a platform, such as the one you
- 20 mentioned, it was more likely to be indicative of
- 21 the nature of demand in the pilot phase of the
- 22 CORSIA, which if you follow that market, you're

- 1 probably familiar with the challenges that Covid
- 2 presented and how that system sought to address
- 3 them.
- 4 For -- I guess at this stage a key question
- 5 would be what is the going price for credits that
- 6 are eligible for the first phase? Where we have
- 7 identified growing demands and have begun to
- 8 articulate more biting requirements for carbon
- 9 credit stringency.
- 10 Because that is likely to be more indicative
- 11 of the type of supply that would be carried through
- 12 the duration of the CORSIA's implementation. And I
- 13 have no doubt that it will be higher than the
- 14 prices you mentioned today.
- MS. PETSONK: Just to add to what Molly said.
- 16 I first would like to comment on the assumption
- 17 that credit price is a surrogate for credit
- 18 quality. That is not necessarily the case. Second,
- 19 demand for aviation dropped dramatically during
- 20 Covid. It was the largest drop in demand for civil
- 21 aviation in civil aviation's history.
- In the face of that drop in demand the council

- 1 of the International Civil Aviation Organization
- 2 allowed airlines for the first three years of
- 3 CORSIA 2021, '22, '23. That's the first three years
- 4 in which an offset requirement applied. To change
- 5 the baseline above which airlines would need to
- 6 offset emissions. Instead of offsetting emissions
- 7 above a baseline set as CORSIA originally set it in
- 8 2016 at the average of 2019, 2020 emissions levels,
- 9 which given the drop in 2020 aviation activity
- 10 would have been a substantial change to the
- 11 baseline.
- 12 The ICAO council said that airlines for the
- 13 first three years, the pilot phase of the program,
- 14 2021, '22, '23, would only need to offset emissions
- 15 of international aviation above 2019 levels.
- 16 International aviation emissions globally are
- 17 just now beginning to reach 2019 levels. So for the
- 18 first three years of the program, 2021, '22, '23,
- 19 there simply is not demand for emission reductions
- 20 by airlines because they are not required to do so
- 21 under CORSIA.
- There's not CORSIA driven demand. There's

- 1 other demand from airlines, voluntary commitments
- 2 and from their customers, but not through CORSIA. I
- 3 mentioned that in October of last year, the
- 4 assembly, the 190-plus governments of ICAO adopted
- 5 changes to CORSIA to strengthen the baseline.
- 6 Going forward, that is starting next year,
- 7 2024, '25, '26, the next three-year compliance
- 8 period of CORSIA, the baseline is set at 85 percent
- 9 of 2019 levels. So airlines if international
- 10 aviation demand continues to rise, and we are
- 11 seeing tremendous increase in demand for aviation
- 12 at Fourth of July was, I think, the busiest
- 13 aviation for U.S. domestic aviation on record.
- 14 So demand is rebounding. Demand for emission
- 15 reductions will grow. At the same time, in the
- 16 industry, there's a great interest in pursuing
- 17 sustainable aviation fuel as Sean Babington, from
- 18 the Department of Agriculture mentioned, and as I
- 19 mentioned in terms of the upcoming ICAO meeting on
- 20 that topic.
- 21 And so, we're seeing interest in addressing
- 22 these emissions across. And for that reason, I

- 1 think that the assumption that price is an
- 2 indicator of quality of credit is not a correct
- 3 assumption. Let's put that to one side and instead
- 4 let's look at credit quality and how credit quality
- 5 is communicated to perspective buyers.
- 6 MR. ERVIN: One other element in terms of the
- 7 demand side is the non-aviation demand. And as
- 8 everybody in this room knows and from some of the
- 9 prior conversations, there's been a lot of
- 10 criticisms of climate credits from various news
- 11 sources over the last year.
- 12 And I think until we're able to collectively
- 13 find a way to raise some minimum standards, you're
- 14 going to run into something that in economics they
- 15 call Gresham's Law. That bad coinage drives out
- 16 good coinage.
- 17 If there are people using poor quality credits
- 18 and taking credit for that, that can diminish the
- 19 value to people who are trying to buy high quality
- 20 credits and do it right. So I think some of the
- 21 efforts that people in this room been undertaking
- 22 to try and establish a higher quality minimum

- 1 baseline for what a credit is, to make sure that a
- 2 ton is pretty darn close to a ton. Ideally, at
- 3 least 100 percent of a ton. I think it will be very
- 4 important in establishing and reestablishing a
- 5 demand on a better footing.
- 6 MR. BEHNAM: Yeah. So, Annie, Wilson, thank
- 7 you. Molly, thank you. Sean has left us but we're
- 8 going to move now. We're going to take a little
- 9 break. We're going to try to make up some time. I
- 10 know we had our tent card issue at the beginning.
- 11 So we are scheduled technically to start the
- 12 next panel at 1:30. It's 1:26. Let's plan on 1:45.
- 13 So just a bit over 15 minutes and we'll kick off
- 14 and keep this show going. Thanks everyone.
- 15 [break]
- MR. BEHNAM: And I just want to make everyone
- 17 aware, especially the next panel, we're not cutting
- 18 the panels short; we're cutting the breaks short.
- 19 We are going to do our best to meet that 5:00
- 20 deadline knowing that it's a long day and we have
- 21 things to do this evening.
- So I'm going to pass it over to David Gillers,

- 1 who is going to lead the introduction to the next
- 2 panel.
- 3 MR. GILLERS: Good afternoon. Just a brief
- 4 introduction of the next panel. Nat Keohane will be
- 5 moderating the private sector standards initiatives
- 6 and credit ratings panel. Nat is President of the
- 7 Center for Climate and Energy Solutions, C2ES, a
- 8 non-partisan, non-profit organization that works
- 9 with policy makers and businesses to accelerate the
- 10 transition through a thriving just and resilient
- 11 net-zero emissions economy.
- 12 Dr. Keohane is a globally recognized expert in
- 13 climate policy, carbon pricing, and the economics
- 14 of climate change, and has helped to shape market-
- 15 based climate policies in California, the US, and
- 16 internationally.
- Before joining C2ES in 2021, he headed the
- 18 climate program at the Environmental Defense Fund.
- 19 From 2011 to 2012, Nat served the White House as
- 20 special assistant to President Obama for energy and
- 21 environment. Previously, he taught at the Yale
- 22 School of Management where he was associate

- 1 professor of economics. Over to you, Nat.
- 2 MR. KEOHANE: Well, thanks very much, David. I
- 3 -- and at least I managed to turn on my microphone
- 4 after all that.
- 5 Thanks for the kind introduction. Thank you,
- 6 Chairman Behnam, commissioners for convening this
- 7 day and I think a really important set of issues on
- 8 this panel. Thanks as well to Abigail for all the
- 9 work to set this up, which have been really
- 10 terrific.
- 11 So, thanks, David, for that introduction. And
- 12 I wanted to provide a couple of short -- or some
- 13 brief framing remarks here before I then just turn
- 14 to the panelist and they'll each present some
- opening remarks, and then we'll have time for Q&A.
- But I thought I would start by maybe setting
- 17 up the discussion by talking a little bit about
- 18 some of what we heard before but as well as, you
- 19 know, what does it mean to scale up a high
- 20 integrity voluntary carbon market, which I think
- 21 certainly from C2ES's perspective is how we think
- 22 about this.

1 And I -- and we're doing that because I firmly

- 2 believe, and I think a lot of us in this room
- 3 believe that the market, the voluntary carbon
- 4 market can help dramatically to scale up private
- 5 investment into real climate solutions and
- 6 sustainable green growth in developing countries
- 7 and be a really important part of the climate
- 8 solution.
- 9 We heard earlier from Kyle that in 2021, the
- 10 VCM hit a high-water mark of about 160 million tons
- 11 of carbon credits retired. So that's sort of what
- 12 it achieved in terms of emission reductions. And
- 13 that was a volume of about \$2 billion in volume.
- 14 And \$2 billion may sound like a lot, and I
- 15 know Wilson said some of this, but it's -- \$2
- 16 billion is a tiny fraction of the hundreds of
- 17 billions of dollars annually, the trillions of
- 18 dollars in total that we need to mobilize according
- 19 to the International Energy Agency and others in
- 20 terms of financing the low-carbon net-zero
- 21 transition.
- 22 And the 160 million tons is a tiny fraction of

- 1 1 percent of the roughly 50 billion tons of
- 2 greenhouse gasses that we emit every year. So if
- 3 the voluntary carbon market is going to make a
- 4 meaningful impact, and I think it can, we need to
- 5 scale it up dramatically. And we saw some of the
- 6 estimates from Kyle's presentation that could be an
- 7 order of magnitude in the next decade and another
- 8 order of magnitude by 2050.
- 9 So how are we going to do that? Well, a phrase
- 10 I often use is "build integrity and scale will
- 11 follow." And I think about that for two reasons.
- 12 First, before the market can scale up, I think
- 13 we need to build the confidence of buyers and
- 14 sellers, and civil society stakeholders, and all
- 15 the market participants in the integrity of the
- 16 market. If people don't believe in the quality of
- 17 what they're buying, what they're selling, what's
- 18 being traded, it will never scale up.
- 19 The second reason, it never should scale up if
- 20 it doesn't have integrity. We don't want a multi-
- 21 billion dollar a year carbon market that's not
- 22 really reducing emissions in a real way. So we need

- 1 integrity first, and if we built integrity, scale
- 2 will follow.
- 3 So what do I mean by integrity? And this might
- 4 help frame the discussion a little bit today and
- 5 put it in context. I think about integrity in three
- 6 ways, three pillars for the voluntary carbon
- 7 market.
- 8 The first, which we'll be talking a lot about
- 9 in this panel and I think throughout the day, is
- 10 integrity of supply. That means that carbon credits
- 11 should meet high standards for environmental
- 12 integrity.
- 13 They -- meaning they represent real additional
- 14 verified reductions in carbon emissions, I know --
- 15 and that can speak for some of this, as well as
- 16 meeting high standards for social integrity,
- 17 meaning that they respect key -- they respect the
- 18 rights of key stakeholders affected by carbon
- 19 credits including indigenous peoples in local
- 20 communities. So this integrity of supplies, I -- as
- 21 I said, will be a focus in a lot of today's
- 22 discussion.

- 1 There's a second aspect of integrity, which is
- 2 integrity of demand, meaning that the use of
- 3 credits by companies that using them to meet their
- 4 voluntary climate commitments should not detract
- 5 from or substitute for the actions that those
- 6 companies also need to be taking to reduce their
- 7 emissions and their operations and supply chains.
- 8 And there's lots of effort underway to think
- 9 about that. And then the third I would argue is
- 10 integrity and exchange in the market itself, that
- 11 means preventing fraud, ensuring transparency and
- 12 liquidity and so on.
- 13 So against that backdrop, what is the CFTC's
- 14 role. Let me offer a couple of framing thoughts and
- 15 then put it over to the panel.
- So clearly, I would say regulators such as the
- 17 CFTC and other financial and prudential market
- 18 regulators have a role in promoting the integrity
- 19 of the supply of carbon credits, for example,
- 20 through some sort of quidelines or requirements or
- 21 something on the types or qualifications of credits
- 22 underlying carbon credit derivative contracts. And

- 1 I know that's one of the things that CFTC has said
- 2 would like some guidance on and interest on.
- 3 I think there might also be a role for
- 4 regulatory agencies although probably not CFTC
- 5 necessarily, in promoting integrity of demand for
- 6 example on restrictions or how companies report on
- 7 claims. And we've seen some of that from some other
- 8 government agencies.
- 9 And I think there's a very natural role for
- 10 CFTC and other agencies, to promote the integrity
- 11 of exchange what I am calling about marketing
- 12 integrity, which is a standard -- obviously a
- 13 standard bread and butter focus of the agency and
- 14 the Commission, and we heard before earlier from
- 15 the enforcement division at preventing fraud and
- 16 showing transparency core functions, I think that
- 17 we'd all agree the CFTC can provide.
- I think at the same time I just want to
- 19 mention before, you know, as my last point, this is
- 20 a voluntary market. It's when companies are
- 21 participating voluntarily, there's no regulatory
- 22 requirement or compliance obligation.

- 1 So there is some need and value and I know
- 2 this is on the commissioners' minds of targeting
- 3 any regulatory engagement or involvement or
- 4 intervention, so as -- and designing in a way that
- 5 doesn't unintentionally somehow dampen what
- 6 companies are doing voluntarily. Right? So we want
- 7 to strike that right balance.
- 8 It's also true as we'll hear on the panel,
- 9 that there are a wide number of organizations and
- 10 initiatives underway in the voluntary market that
- 11 are already setting standards, assessing quality,
- 12 providing guidance. And so there's a lot out there
- 13 for CFTC to build on, to reinforce, to draw on and
- 14 learn from.
- 15 And the amount of expertise I can say from
- 16 having been involved in just a couple of them --
- 17 the amount of expertise and resources and time that
- 18 goes into this means that I think it's really going
- 19 to be important to draw on those and build on
- 20 what's been done.
- 21 So I would say the next panel is exactly the
- 22 right set of individuals and organizations to be

- 1 discussing these issues. And I think they
- 2 represent a wide range and the right range of
- 3 organizations that are working to promote what I
- 4 called integrity of supply.
- 5 And so I thought I would just go through --
- 6 I'll introduce each one just in person. But as I
- 7 say, they represent a wide range of views.
- 8 The first panelist is Annette Nazareth, a
- 9 Senior Counsel with Davis Polk & Wardwell LLP, and
- 10 for all purposes here, the Chair of the Integrity
- 11 Council for the Voluntary Carbon Market as well as
- 12 former SEC commissioner. So Annette, let me start
- 13 with you.
- MS. NAZARETH: Well, thank you so much and
- 15 thank you so much for inviting me to speak here
- 16 today. I've been privileged to speak to many of the
- 17 CFTC commissioners and the Chair on these important
- 18 issues and very much value the input that you have
- 19 provided to us both in your role with the CFTC and
- 20 your involvement in IOSCO as well.
- There are a number of people here today who
- 22 are involved in our efforts at the ICVCM including

- 1 Nat and Dirk Forrister and I think some of our
- 2 other panelists as well. I think Pedro Barata is
- 3 going to be on as well. And so I will give you my
- 4 perspective at a high level of what our progress
- 5 has been and what we're doing.
- I mean, you may know that our efforts actually
- 7 started about three years ago when we had the
- 8 Taskforce on Scaling Voluntary Carbon Markets. And
- 9 I started there because what we did there was a
- 10 very wide-ranging effort. We had over 250
- 11 organizations and 400 people involved in a really
- 12 fundamental question, which was, what would it take
- 13 to scale up high integrity carbon markets?
- 14 And after a year's worth of work, we came up
- 15 with a blueprint, and the outgrowth of that is
- 16 largely the work of the ICVCM and our sister
- 17 organization, the VCMI.
- 18 What we decided was first and foremost, we
- 19 needed to create high integrity standards for what,
- 20 you know, really credible carbon credit would look
- 21 like, and we also needed to focus on the markets on
- 22 which they trade because a lot of this does also go

- 1 to having a market structure that fosters
- 2 transparency and confidence and liquidity.
- 3 And again, if you look at the gaps that we
- 4 have today in our attempts to address the climate
- 5 crisis, they're vast. I mean, there's a reason why
- 6 Secretary General of the UN Guterres said, you
- 7 know, we need to do everything, everywhere, all at
- 8 once. I mean, this is really quite serious.
- 9 And so, governments and philanthropy alone are
- 10 not going to get us where we need to be. And even
- 11 if governments regulated more of the market -- and
- 12 I think Dirk suggested, and I agree with him, that
- 13 it would be great if governments were more involved
- 14 in this, but even if they were, I think we still
- 15 would very much need the private sector's
- 16 involvement, because this is going to involve, you
- 17 know, trillions of dollars of investment, and that
- 18 can't just come from governments and philanthropy.
- 19 So where will that come from?
- 20 I think there is a tremendous opportunity for
- 21 the capital markets to be properly channeled to
- 22 have investments in, you know, climate-related

- 1 projects, where we'll take, you know, financing
- 2 from largely the Global North and provide it to
- 3 projects, many of which are in the Global South,
- 4 that will make, you know, meaningful investments in
- 5 projects that will reduce or remove greenhouse gas
- 6 emissions.
- 7 And I think, you know, as Nat said, there are
- 8 a lots of -- we've come up with core carbon
- 9 principles, which are our 10 principles on which a
- 10 high integrity carbon credit should be based. I
- 11 won't go into them in great detail other than to
- 12 say they fit into three categories. One is
- 13 governance, the other is emissions impact, and
- 14 finally, sustainable development, goals, and
- 15 benefits.
- And these core carbon principles apply at two
- 17 levels. They apply to the carbon crediting
- 18 programs, who are the intermediaries, and we'll
- 19 hear from some of them, who issue the credits. And
- 20 they will also apply to the categories of carbon;
- 21 generally methodologies and in some cases a little
- 22 deeper than that.

- 1 And so, the core carbon principles are very
- 2 high-level standards, but obviously, you know as
- 3 regulators, you have to dig a little deeper than
- 4 that, so we have an assessment framework, that
- 5 basically is what animates each of those
- 6 principles. There are more detailed requirements
- 7 that would have to be satisfied again, some at the
- 8 program level, others at the carbon crediting
- 9 level.
- 10 And these, I have to say, are very
- 11 sophisticated requirements. It's not something that
- 12 I think the average person or frankly, even the
- 13 average regulator or former regulator like myself
- 14 could have done alone.
- 15 It's taken a lot of work between the people
- 16 who really understand the climate issues and the 12
- 17 expert panel members who we have assisting us, to
- 18 really -- a- -- and with a lot of cooperation with
- 19 the programs and others to really come up with what
- 20 we think are the appropriate standards.
- 21 To give you sort of a progress report, at the
- 22 end of March, we issued our release one, which was

- 1 the core carbon principles themselves and the
- 2 assessment framework as it relates to the carbon
- 3 crediting programs and the procedures around that.
- We are imminently going to, as imminently as I
- 5 could possibly make it, release our -- release two,
- 6 which will be the assessment framework for the
- 7 carbon categories, and then we're really off to the
- 8 races.
- 9 What we're hoping is that the carbon crediting
- 10 programs will start to apply so that they will be
- 11 issued the CCP label. And in addition, we're going
- 12 to start assessing various carbon categories and
- 13 roll out the CCP labels for those. We're going to
- 14 have a number of working groups and work streams to
- 15 get that done.
- But our hope is that by the time we get to
- 17 COP, COP28 later this year, that we'll start to
- 18 actually see some carbon credits issued with the
- 19 CCP label. And, you know, as we used to say at --
- 20 in Trading and Markets at the SEC, liquidity begets
- 21 liquidity.
- We're really hoping that the more we start

- 1 seeing high quality carbon credits issue, the more
- 2 credits, the more market activity, and therefore,
- 3 the more these markets can scale up to meaningfully
- 4 contribute, not to be our primary goal, as other
- 5 said earlier. We got our emissions down to the full
- 6 extent possible, but to use the voluntary carbon
- 7 markets as a complimentary tool to accelerate our
- 8 transition to net-zero.
- 9 So what does that mean for regulators. I, you
- 10 know -- some have asked me in the past, you know,
- 11 why are we doing this and are we crowding out
- 12 regulators. Well, obviously, there's no such things
- 13 as crowding out regulators. If regulators have
- 14 authority, they will use it.
- In this case as you know, there's -- the
- 16 governments haven't stepped up yet, and so, the
- 17 private sector has done that. We -- as you know
- 18 that we really tried to create a process that was
- 19 as much like a regulated process as possible for a
- 20 number of reasons because we think that process is
- 21 tried and true, it has integrity.
- 22 We went out for full notice and comment with

- 1 all of our proposals. We've been very transparent
- 2 in publishing the comments and we've been
- 3 transparent in our reasons for why we adopted or
- 4 took certain approaches, and we will continue to do
- 5 that.
- But in addition, you know, our thought is that
- 7 if at any point in time regulators do decide that
- 8 they need to do more, they have authority, we want
- 9 it to be somewhat modular, that it -- it's -- our
- 10 process has so mimicked what would be done in a
- 11 regulated process that you could basically take
- 12 that over if need be and hopefully with, you know,
- 13 minimal market disruption.
- 14 What I find very promising about this process
- 15 is that, you know, as you know the carbon credits
- 16 are, you know, spot market transactions. And as you
- 17 all mentioned before, the CFTC has anti-fraud and
- 18 anti-manipulation authority over the spot market
- 19 and so that -- we find that very helpful. But even
- 20 more promising, I think, is your pervasive
- 21 authority over the futures.
- 22 And I do think that and we'll hear from the

- 1 markets later, I think there's going to be a
- 2 tremendous appetite for futures on these products,
- 3 which is great. They are regulated. You'll be
- 4 looking at all the trade data for them. And so you
- 5 -- I always think of the CFTC as sort of looking
- 6 over the wall at the cash market but also the spot
- 7 market, but very involved in the futures.
- 8 And so we welcome that oversight. But I also
- 9 think the futures are going to create a very
- 10 important price signal. And so we will see -- or we
- 11 had got questions about pricing. And I agree with
- 12 what the comments that were made. The pricing is
- 13 very imperfect today for a whole bunch of reasons,
- 14 including that the market structure is flawed.
- So what we are hoping is that over time, this
- 16 becomes a much more liquid market, a more
- 17 standardized market where the CCP label with
- 18 standardized products makes it a much easier
- 19 journey for buyers. They wouldn't have to be hiring
- 20 climate scientists to do due diligence any longer.
- 21 There will have been a lot of work done at the
- 22 frontend. So I'll end there but I hope you get a

- 1 sense of my excitement and enthusiasm for the
- 2 progress that we're making and the possibilities
- 3 for this market.
- 4 MR. KEOHANE: Thanks so much, Annette. Our
- 5 next speaker is Pedro Barata, the Associate Vice
- 6 President for Carbon Markets and Private Sector
- 7 Decarbonization at the Environmental Defense Fund.
- 8 And I think Pedro will be talking about a couple of
- 9 civil society efforts to provide guidance on
- 10 quality of standards. Pedro, please take it away.
- 11 MR. BARATA: Thank you, Nat. And I hope you
- 12 all can hear me.
- MR. KEOHANE: Yes, we can.
- 14 MR. BARATA: There is a little bit of feedback
- 15 on my end, but I'll try.
- So first of all, thank you to the CFTC, and
- 17 I'd like to start by saying that the Environmental
- 18 Defense Fund, we appreciate and encourage the
- 19 commissioners' continued engagement on this topic.
- 20 And I'm very pleased to join such a stellar array
- 21 of panelists today to discuss the voluntary carbon
- 22 market.

- 1 I'm going to be focusing in my intervention on
- 2 two carbon credit integrity initiatives on which
- 3 EDF is particularly involved, and that's the Carbon
- 4 Credits Quality Initiative and the Tropical Forest
- 5 Integrity Guide.
- At the same time, I'll just note for full
- 7 disclosure that I'm also involved in my personal
- 8 capacity as a co-chair of the expert panel of the
- 9 Integrity Council of the Voluntary Carbon Market on
- 10 which Annette has just have spoken on, and that EDF
- 11 is also present at the board of the ICVCM.
- 12 So I'll start with the Carbon Credits Quality
- 13 Initiative. This was an initiative that was founded
- 14 by EDF, World Wildlife Fund US(WWF-US), and Oeka-
- 15 Institut, a German think-tank; and it aims to
- 16 provide transparent information on the quality of
- 17 carbon credits so that we can help both carbon
- 18 credit programs, the registries such as the ones
- 19 that are here present in this meeting, but also
- 20 buyers to understand what exactly carbon credit
- 21 quality means and which project types are more
- 22 likely to deliver actual emission reductions as

- 1 well as social and environmental benefits.
- Our work is providing a free and easy to use,
- 3 at least we hope so, online scoring tool that can
- 4 be used by carbon credit buyers and traders as part
- 5 of their due diligence efforts.
- 6 Our methodology is science driven and draw
- 7 strongly unavailable research and carbon credit
- 8 quality. For each of six criteria and, as an aside,
- 9 these criteria very much mimic the core carbon
- 10 principles that ICVCM has adopted.
- Our assessment of methodology identifies which
- 12 of the factors are most significant for carbon
- 13 credit quality and then evaluates each criterion
- 14 and sub-criterion.
- So this approach allows our assessments to
- 16 cover a large share of carbon credits available on
- 17 the market, and we aim as a project, to get to
- 18 roughly 80 percent of the currently issued credits
- 19 on the market.
- 20 But it does not necessarily account for the
- 21 unique conditions of each individual project. So we
- 22 assess carbon credit methodology as these are

- 1 developed and adopted by carbon credit programs.
- 2 We do not assess, and we are not have the --
- 3 we do not have the bandwidth to assess individual
- 4 projects. And essentially, if you want -- a carbon
- 5 credit methodology is a recipe but each individual
- 6 project is a particular -- let's say a particular
- 7 [conceptualization] of that particular recipe of
- 8 methodology and can vary significantly.
- 9 So just bear in mind, to-date, more than
- 10 10,000 mitigation projects have been registered
- 11 under carbon credit programs. We could not have the
- 12 bandwidth to assess them all.
- 13 So what we do is we assess the methodologies
- 14 and we provide an easy to access tool, Excel tool,
- 15 that is available for individual project assessment
- 16 for users with a high-degree expertise. And we are
- 17 aiming to collaborate with some of the nascent
- 18 rating agencies in working with them to
- 19 incorporate, to the extent possible, our principles
- 20 in their assessment.
- 21 So that's CCTY, and I'm pleased to know that
- 22 CCTY as to an extent, influenced, I believe, part

- 1 of the assessment framework that we hopefully will
- 2 see come to fruition later this month; the
- 3 assessment framework of the Integrity Council for
- 4 the Voluntary Carbon Market.
- 5 A separate process that we've also been
- 6 leading at EDF, is the Tropical Forest Credit
- 7 Integrity Guide. And to provide more clarity for
- 8 companies around the world about what high-quality
- 9 tropical forest carbon credits like, we partnered
- 10 with eight norm setting organizations including
- 11 Conservation International, the Amazon
- 12 Environmental Research Institute (IPAM), The Nature
- 13 Conservancy, and others, including also
- 14 coordinating agencies for indigenous peoples and
- 15 local communities in the Global South such as
- 16 COICA, the Coordinator of the Indigenous
- 17 Organizations of the Amazon Basin, to develop a
- 18 Tropical Forest Credit Integrity guide, that is
- 19 designed for companies that are interested in
- 20 purchasing carbon credits by impact quality and
- 21 scale.
- 22 So the TFCI guide focuses almost exclusively

- 1 on supply-side integrity. And the intended audience
- 2 is decision makers responsible for developing and
- 3 implementing corporate climate mitigation or net-
- 4 zero strategies and consultants who advise on these
- 5 topics.
- 6 The authoring organizations that I've
- 7 mentioned have recently released and updated
- 8 version 2 of the TFCI in February 2023. And this
- 9 version contains three important components in
- 10 layers of increasing detailed guidance.
- 11 First, we introduced six consensus
- 12 recommendations that outlined the outcomes we're
- 13 seeking to achieve and the direction of travel for
- 14 companies to advance those outcomes.
- 15 And second, the guide contains implementation
- 16 guidance that outlines an actionable four-step
- 17 process to be undertaken by companies choosing to
- 18 purchase tropical forest carbon credits as part of
- 19 their climate mitigation strategy.
- 20 And third, we have detailed annexes to each
- 21 recommendation that explained with more nuance, how
- 22 to have decision makers weigh purchase decisions.

- 1 And so, these annexes speak to the qualities and
- 2 attributes that are integral to high integrity
- 3 tropical forest carbon credits.
- 4 So the Annex to Step 1 describes high forest,
- 5 low deforestation credits and six reasons why HFLD
- 6 (as they are called) credits should be included in
- 7 a conscious buyer portfolio; and basic eligibility
- 8 criteria for HFLD credits, which apply in addition
- 9 to all other TFCI quality criteria.
- 10 Annex to Step 2 provides detailed guidance for
- 11 selecting credits for purchase, articulating
- 12 definition and relevant criteria and purchasing
- 13 quidance for three tiers of credit.
- 14 With all of this guidance that EDF has sought
- 15 to implement -- and going back to Nat's earlier
- 16 intervention when we started the panel -- these two
- 17 interventions, whether it be the CCQI or TFCI, are
- 18 very much focusing on the integrity of supply that
- 19 I mentioned.
- 20 As noted by Nat, there are other integrity
- 21 dimensions. Nat has mentioned the demand integrity,
- 22 which is very much the space of the Voluntary

- 1 Carbon Market Integrity Initiative, which I won't
- 2 be speaking to.
- But I would just want to recognize the third
- 4 dimension that Nat has spoken to, while all of
- 5 these standards and initiatives and guides address
- 6 critical and timely issues in terms of credit
- 7 integrity, the CFTC in our view should be cognizant
- 8 that credit integrity is not the only feature
- 9 essential for trusted, transparent, and vital
- 10 voluntary carbon market.
- In addition to carbon credit integrity, we
- 12 have to have market integrity. And these are --
- 13 these can be built on recommended actions that were
- 14 already developed by the precursor to the ICVCM,
- 15 the Taskforce on Scaling Voluntary Carbon Markets.
- 16 Let me just provide an example of --
- 17 MR. KEOHANE: Pedro, I actually have to -- I'm
- 18 way overdue in telling you this, but if you can
- 19 actually wrap up, that would be great. We're way --
- 20 we're a little bit over time.
- 21 MR. BARATA: Sorry for that, Nat. Then let me
- 22 just cut to the chase.

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1 In our view, the main purpose of, or the --
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- 2 where we would very much welcome the role of other
- 3 regulators beyond all of these initiatives, would
- 4 be in assisting for instance, market integrity in
- 5 relation for, for example, on price transparency.
- 6 And recent surveys of carbon market
- 7 participants have shown that, for example, claims
- 8 around benefit sharing or revenue sharing, which
- 9 are essential to the credibility of the claims in
- 10 the voluntary carbon market, with indigenous people
- 11 in local communities, cannot be actually
- 12 scrutinized by any independent participant.
- 13 There is at this stage very much a lack of
- 14 information to substantiate a lot of the claims
- 15 that -- where the project developers or buyers can
- 16 claim on issues such as revenue sharing and benefit
- 17 sharing.
- 18 So that would be our plea to focus that
- 19 attention on that and to work with the initiatives
- 20 that I mentioned in developing credit integrity
- 21 quidelines. Thank you, and sorry for being
- 22 overtime.

- 1 MR. KEOHANE: Thanks, Pedro. Thanks very much.
- 2 And I've been remised as a moderator, but
- 3 unfortunately for the remaining panelists, I'm
- 4 going to try to be a little bit -- I've let a
- 5 couple slip through but I'm going to try to be a
- 6 little bit more strict. And let's try to keep the
- 7 comments to four minutes or five at the most per
- 8 panelist, so that we have time for questions.
- 9 Our next panelist is Hugh Salway who is Senior
- 10 Director for Market Development and Partnerships at
- 11 the Gold Standard Foundation, one of the standard
- 12 setting organizations you've been hearing about.
- 13 So, Hugh, over to you.
- 14 MR. SALWAY: Great. Thank you very much, and
- 15 thank you for having me. And Pedro spoiled it for
- 16 the rest of us by taking time, so we have to be
- 17 limited. But I just wanted to say a few things on
- 18 behalf of Gold Standard. So Gold Standard is a
- 19 Swiss-based certification body in the carbon
- 20 markets. We're a non-profit organization.
- 21 And just starting on the question of integrity
- 22 of supply, which is really where we fit in as an

- 1 issuer of carbon credits. We are non-profit. We
- 2 have no profit motive related to an interest in
- 3 kind of inflating the amount of credits, which we
- 4 issue as a standard. And really, the value that we
- 5 have as an organization is in our reputation.
- 6 And I think that's very important when we
- 7 think about this question of quality of supply. We
- 8 as an organization are focused on environmental
- 9 integrity, social integrity, because these are
- 10 really what provides value, what instills trust in
- 11 the work which we do.
- 12 And the value is partly tied to what we do as
- 13 an organization, but kind of as we've seen over
- 14 recent months as well, there's also a link to the
- 15 wider market. And this is why we have a real
- 16 interest and have been supportive of the work which
- 17 the Integrity Counsel on the Voluntary Carbon
- 18 Market is doing.
- Because this is an unregulated market, we're
- 20 seeing a growth in standards across the world, some
- 21 of which I'm sure are doing a very robust job, some
- 22 of which may not be doing so.

- 1 And having a benchmark across the market, a
- 2 flow of what quality looks like, is increasingly
- 3 important, so that there is confidence amongst
- 4 buyers and what they're purchasing and so you can
- 5 have that differentiation and you can see a scaling
- 6 of the market in a way that Nat was talking about
- 7 earlier, where we build integrity and scale
- 8 follows.
- 9 And so, we support the work that the ICVCM is
- 10 doing. And following on from what Annette was
- 11 doing, I think -- saying earlier, I think there's
- 12 an interesting question about the potential role of
- 13 the CFTC linked to that. Is it a case of endorsing
- 14 and strengthening the work of ICVCM, is there
- 15 something set which is done?
- But we feel like the work which is being done
- 17 at the moment focus on and to try to build
- 18 confidence and integrity of supply through the
- 19 ICVCM, is incredibly important right now.
- 20 And another reflection of what Nat was saying
- 21 earlier as well, I think it is really important
- 22 when we think about integrity on the supply side,

- 1 not to forget the social integrity element.
- 2 There is a lot of focus on environmental
- 3 integrity amongst buyers and other users of the
- 4 market, but when we're seeing kind of increased
- 5 regulation and some pauses to projects in countries
- 6 across the world, which we have been seeing over
- 7 the past year, a lot of that is linked to social
- 8 concerns.
- 9 It's linked to concerns that projects aren't
- 10 benefiting local communities linked to concerns
- 11 about price transparency in the way that it was
- 12 being talked about earlier.
- 13 So if we're thinking about how to build
- 14 confidence and then to scale the market, we really
- 15 can't forget that social integrity element as well
- 16 because that's clearly an important part of how the
- 17 market will scale and how it will build up that
- 18 confidence.
- 19 And just two more points as well, quickly. I
- 20 wasn't here earlier where we saw the guides, the
- 21 maps of issuances in 2021 and what may have
- 22 happened after that. It's interesting reflecting on

- 1 this as Gold Standard. So in the first half of this
- 2 year where the overall narrative was about the lack
- 3 of confidence in the market, we've seen an increase
- 4 in retirements of our credits.
- 5 So it's gone from 13.3 million last year to
- 6 15.5 million this year, and that's up from just
- 7 over 10 million two years ago. And so, there are a
- 8 few things we're interested in when we look at that
- 9 number. Firstly, what does it mean that we are
- 10 seeing an increase in retirements at this time
- 11 where the sense is that there is a drop in market
- 12 confidence, that's one question.
- 13 Secondly, is this the scaling up that we
- 14 really need if we're increasing by 2 million year
- 15 on year, when actually we need to get to the kind
- 16 of hundreds of billions that Nat was talking about
- 17 earlier.
- 18 And then a third reflection on the numbers
- 19 which we have here, a very small volume of Gold
- 20 Standard issued credits are traded on exchanges and
- 21 are kind of traded through contracts. A lot of this
- 22 is over the counter, and that's an interesting

- 1 question when you're looking at regulating the
- 2 market, the credits that we have very -- to a very
- 3 little extent to traded through contracts.
- 4 And then the final point, just quickly, maybe
- 5 it's me, I've never fully understood the concept
- 6 that because it's voluntary for companies to use
- 7 the market it means the regulators should stay
- 8 away.
- 9 My sense is that a more regulated market,
- 10 which instills trust, is one that more companies
- 11 would want to come in and use voluntary. And I
- 12 really do feel like both on the supply side but
- 13 also on the market integrity element, that there
- 14 are some gaps which are leading companies to stay
- 15 away in a way that they may not, if there was more
- 16 confidence which was built around this.
- 17 MR. KEOHANE: Thanks, Hugh, that's very much.
- 18 And you are a model for the remaining panelists.
- 19 Thanks. Thanks for those concise comments.
- Next joining us in the room, Robin Rix, the
- 21 Chief Legal, Policy, and Markets Officer at Verra,
- 22 one of the other standards organizations. Robin, to

- 1 you.
- 2 MR. RIX: Well, thank you very much, Mr.
- 3 Moderator, Chair, Commissioners, fellow quests.
- 4 Verra is a non-profit organization, 501(c)(3), that
- 5 manages the verified carbon standard program. We've
- 6 registered over 2,000 projects, issued over 1.1
- 7 billion credits, representing around 65 to 70
- 8 percent of market volume.
- 9 We also operate a registry for tracking the
- 10 issuances, trading and retirements of carbon
- 11 credits. We strongly welcome the CFTC's interest in
- 12 this topic. We participated in your first convening
- 13 last year, and we submitted comments on the RFI on
- 14 climate-related financial risks earlier this year.
- Today I have sort of three general messages
- 16 that I'd like to convey. The first is that
- 17 respectable participants in the VCM, including
- 18 Verra, want regulators to take a more muscular
- 19 approach to fraud and market manipulation. The
- 20 underlying commodity here is an abstract
- 21 representation of achievements against the
- 22 hypothetical counterfactual.

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1 That's hard. And these characteristics make it
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- 2 vulnerable to abuse by malicious actors who not
- 3 only exploit this abstract nature, but prey upon
- 4 the good will of good people who really truly want
- 5 to support environmental action.
- 6 We routinely get inquiries from people who are
- 7 targeted. They're coming to us for help. They're
- 8 targeted by boiler room scams, deceptive marketing,
- 9 and promises of massive returns.
- 10 We can send our cease and desist letters, we
- 11 can hire lawyers, and we can refer people to law
- 12 enforcement agencies, but the reality is they're
- 13 overstretched and don't have the bandwidth to
- 14 really tackle this type of white-collar violation.
- We encourage the CFTC to exercise its
- 16 authority under the CEA to step in and help police
- 17 fraud and market manipulation in this area.
- 18 The second message that I would like to convey
- 19 today is actually one of addressing and perhaps
- 20 warding off certain misconceptions from taking
- 21 root. One is that this market is non-transparent or
- 22 suffers from a lack of transparency.

- 1 I would respectfully submit that this market
- 2 has a lot of transparency. This is a sector with
- 3 high levels of information. Anyone in the world can
- 4 go to our website today for free and access all the
- 5 information they could ever possibly want about a
- 6 project or about a credit.
- 7 If anything, there is too much information out
- 8 there. It is indigestible, it is unactionable. We
- 9 know this. We have digitization projects underway,
- 10 we have other projects underway. But fundamentally,
- 11 this is America with if anything, more information
- 12 and so much information particularly -- perhaps
- 13 relevant to other commodity markets.
- 14 The second per Hugh's point earlier about a
- 15 slowdown, we saw some stats about issuances and
- 16 then retirements. We would point out that these are
- 17 really lagging indicators. The leading indicators
- 18 are those of registrations and new projects and
- 19 especially new projects that are entering our
- 20 pipeline. Those are vastly increased over last
- 21 year. We are seeing ongoing intense interest and
- 22 activity.

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1 We would encourage nota focus on slowdowns of
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- 2 issuances and trying to ascribe meaning, is this
- 3 the results of popular press articles that are
- 4 maybe cherry-picking data, but rather to look at
- 5 the actual leading indicators and what's really
- 6 driving -- what's really driving the numbers here.
- 7 The third one is that's just towards this
- 8 office, as any anticipation that supplies side
- 9 programs included they are might be wary of or
- 10 skeptical of these sort of sectoral initiatives.
- 11 We've heard from Annette about the ICVCM;
- 12 we've heard from others about the VCMI. We
- 13 strongly, strongly endorse these and we are looking
- 14 to sort of seek approval under that, and we are
- 15 very happy to sort of be cooperating, engaging
- 16 constructively in those responsible market
- 17 participants, engage with those activities as ways
- 18 to set a global threshold for carbon credits to
- 19 ensure their high quality and responsible use and
- 20 to really underpin the VCM's growing importance in
- 21 preventing climate disaster.
- The third message that I would like to convey

- 1 today, excuse me, is that the VCM is a young
- 2 market. For years this was a boutique sector. By
- 3 necessity was experimental. This youthful period
- 4 required early movers and learning by doing.
- 5 Fundamental to carbon crediting is the concept
- 6 of quantifying the delta between the baseline or
- 7 what would have happened absent to project and what
- 8 really happened with a project.
- 9 Everyone knows instinctively that a delta can
- 10 exist, actions can have consequences and you can
- 11 change -- you can change things by acting. But
- 12 quantifying the exact nature of that delta, is a
- 13 hard, hard topic to do. It requires hypothesizing,
- 14 testing, and refining new methods, science keeps
- 15 evolving, and technological tools keep improving
- 16 and becoming available.
- 17 On Verra's part, we're continually embracing
- 18 new changes that support integrity, remote sensing,
- 19 jurisdictionally aligned approaches to reducing
- 20 deforestation, enhanced free prior informed consent
- 21 requirements, and of course, an ongoing development
- 22 of our registry. And we will simply note that these

- 1 developments are underway and we are committed to
- 2 increase the integrity on our end.
- 3 That is five minutes, Mr. Moderator, which
- 4 closes me. Thank you very much for the invitation
- 5 to speak today. We look forward to today's
- 6 discussion, as well as the years ahead of
- 7 engagement, improvement, integrity, and impact.
- 8 Thank you.
- 9 MR. KEOHANE: Terrific. Thanks very much,
- 10 Robin. Appreciate that and the clarity and the
- 11 conciseness.
- 12 Our next speaker -- our next panelist will be
- 13 joining us virtually. Flavia Rosembuj is the
- 14 Program Manager for Partnership for Market
- 15 Implementation in the Climate Change Group at the
- 16 World Bank, Flavia.
- 17 MS. ROSEMBUJ: Thank you. Thank you,
- 18 everybody. Thank you, Mr. Chairman, thank you
- 19 commissioners, thank you moderator for including us
- 20 in this very important session. The -- as many of
- 21 you know, the World Bank has been involved in
- 22 carbon markets for over 20 years.

- 1 The World Bank was the creator behind the
- 2 prototype carbon fund before the Kyoto Protocol
- 3 entered into force. So we've all been looking at
- 4 carbon markets for a very, very long time, working
- 5 with our client countries on helping them put
- 6 projects together.
- 7 The initiative I am here to talk about is the
- 8 Climate Action Data Trust, which is an initiative
- 9 where many of the panelists that are here today
- 10 have been actively involved with, and it's a
- 11 platform that connects registry systems of
- 12 voluntary and compliance carbon markets while
- 13 fostering transparency and accountability.
- 14 So we started the CAD Trust three years ago,
- 15 was a prototype under a program called the Climate
- 16 Warehouse. We included over 30 participating
- 17 organizations. We included 11 national governments.
- 18 We had almost 60 testing sessions. And what we will
- 19 continue to do is to develop global public goods to
- 20 build an end-to-end digital infrastructure for
- 21 carbon markets.
- 22 So the different registries and the different

- 1 standards can talk to each other. So what the CAD
- 2 Trust does is to connect end-to-end the digital
- 3 information that is already out there with Gold
- 4 Standard, with Verra, and with any other registry
- 5 that is active out there that will become a member
- 6 of CAD Trust.
- 7 And the other very important pillar of the CAD
- 8 Trust for the World Bank is capacity building. So
- 9 as you know, our mandate is to help our client
- 10 countries.
- 11 So what we will be doing going forward is to
- 12 provide capacity building to help countries that so
- 13 wish integrate into the CAD Trust with their
- 14 national registries so we can continue to develop
- 15 digital infrastructure for carbon markets.
- This is what I wanted to present here today,
- 17 and I will leave some time for questions if there's
- 18 any, at the end of the session. Thank you so much.
- 19 MR. KEOHANE: Thanks so much, Flavia. I
- 20 appreciate that, and helping us get back on track.
- 21 Our speaker on the panelist is Samuel Gill. Sam is
- 22 the Co-founder and President of Sylvera, one of the

- 1 companies that is providing ratings of the projects
- 2 as you've heard. Sam, over to you.
- 3 MR. GILL: Awesome. And I'm going to try and
- 4 do my best to help us get it back on track as well.
- 5 I'd like to thanks to the chairman and
- 6 commissioners for organizing this discussion and
- 7 for the privilege of contributing to it.
- 8 So just to introduce Sylvera, Sylvera makes it
- 9 possible for companies and governments to
- 10 confidently invest in real climate action. And the
- 11 way we do that is by providing science-based
- 12 ratings, assessments and subsidiary data products
- 13 for sustainable finance activity including carbon
- 14 credits.
- 15 And so within the context of the voluntary
- 16 carbon markets, Sylvera develops and tests rigorous
- 17 projects specific methodologies to assessment the
- 18 climate impacted projects, utilizing the latest
- 19 technology and climate science.
- 20 So it's slightly differently to the ICVCM.
- 21 What we're doing is assessing at the project level
- 22 but we're using methodologies that we develop for

- 1 each project type. So for example, for forestry
- 2 protection or forestry restoration or direct air
- 3 capture.
- 4 And the way we do that is by utilizing the
- 5 latest technology and climate science, and we have
- 6 a world-leading technology stack and collaborate
- 7 closely with a number of leading academic
- 8 institutions, governments, and multinational in our
- 9 work in the research space.
- 10 And we produce ratings at the individual
- 11 project level. And so to do that, we have to
- 12 extract and independently validate all of the
- 13 projects relevant parameters that's been used to
- 14 design and originate the project.
- 15 We then apply our project type specific
- 16 methodology and then test the project's performance
- 17 and design with a plethora of proprietary and
- 18 public data, so using again, all machine type stack
- 19 to do that.
- 20 And we produce a top-level rating that looks
- 21 very much like a kind of fixed income style rating
- 22 of AAA through to D. And that AAA or, you know, B,

- 1 C, D, sits on top of three key sub-scores, which
- 2 are basically speaking to the climate impact or the
- 3 climate integrity of the project.
- 4 And those three sub-scores then essentially
- 5 sit on an incredibly deep tech stack of subsidiary
- 6 composite data products. So the three key sub-
- 7 scores that we're producing, number one, is the
- 8 carbon score. So we're essentially producing and
- 9 expo assessment of the project's performance. So
- 10 we'll recreate the accounting exercise that was
- 11 used to generate the project and then test that
- 12 with our own machine learning data.
- 13 So for example, if you were looking at a
- 14 forestry protection project, we would actually
- 15 assess the performance of that project using a
- 16 world-leading tech stack to ensure that the
- 17 projects data that is providing to the market is
- 18 accurate and correct.
- 19 We also then assess the additionality and
- 20 we've heard from fellow panelists, the difficulty
- 21 of actually assessing additionality in an accurate
- 22 way. That's very difficult at an methodology level

- 1 and at a project level, it's fiendishly difficult.
- 2 So again we're using a panel of over, you
- 3 know, 300 testing some methodologies to create a
- 4 viability -- basically, a viability range of what
- 5 would be reasonable in terms of that project's
- 6 baseline and then actually assessing where the
- 7 project sets with that. So again, we're trying to
- 8 drive out the risk of known additional projects or
- 9 projects overestimating their issuance.
- 10 And a third thing we do is we assess the
- 11 permanence of the project. So again, looking at the
- 12 likelihood that the carbon that's either been the
- 13 emissions that has been reduced or the carbon
- 14 that's been pulled out of the atmosphere, the
- 15 likelihood that it's going to stay out of the
- 16 atmosphere for a geologically significant period of
- 17 time.
- 18 And again, we're using risk models that are
- 19 particularly calibrated to that project type. And
- 20 then the final thing we do is we look at the social
- 21 core benefits of the project, but that doesn't sit
- 22 within the core rating, because the core rating is

- 1 essentially trying to give a view of the likelihood
- 2 that that project is going to have the climate
- 3 impact in claims.
- 4 So just to give really quickly, some high-
- 5 level views on what we're seeing in the market, I
- 6 think we've already heard about how, you know, in
- 7 the early days of the market, the assertion was
- 8 that all credits were identical; every ton was a
- 9 ton.
- 10 You know, we entered the market because we
- 11 fundamentally didn't view that to be the case. We
- 12 saw a high level of heterogeneity in the market,
- 13 and that's been borne out by press and the
- 14 experience of, I think, pretty much everyone around
- 15 this table.
- 16 As we've increasingly been proliferating our
- 17 data and working with our large kind of corporate
- 18 clients that are bringing significant investments
- 19 in this market, what we're seeing is the quality
- 20 bifurcation in the market.
- 21 So we've heard about the sort of collapse of
- 22 prices in some of the wider spec future contracts

- 1 and spot market contracts. What we're seeing there
- 2 is the cheapest-to-deliver does not represent a
- 3 credit that a corporate is happy to retire against
- 4 the name, and so that price is collapsing.
- 5 But what we're seeing from the experience of
- 6 our own clients, is that it's very difficult to get
- 7 ahold of high-quality credits. And those credits
- 8 are actually very robust in terms of the pricing.
- 9 So we're seeing \$50 plus for the high-quality
- 10 credits and a real challenge in obtaining those
- 11 credits.
- 12 And so what we're now increasingly actually
- 13 seeing is our clients moving upstream and investing
- 14 in projects in the design phase. And so I think
- 15 it's really, really important that as we look at
- 16 how we govern the spot markets and the future
- 17 markets, that we're providing strong price signals
- 18 for high-quality projects in the design stage
- 19 because that's the part of the market that really
- 20 we can have an impact.
- You know, the market as was posited is at the
- 22 moment pretty small, but if we're able to provide

- 1 that strong signal to the market, the high quality
- 2 is going to be valued, it's going to be enforced,
- 3 and it's going to be rewarded then we hope to see
- 4 the supply side of the market scale with integrity.
- 5 I'll stop there.
- 6 MR. KEOHANE: Perfect. Thanks very much, Sam.
- 7 Next, we have joining us virtually, Ronan Carr, who
- 8 is Chief Research Officer for BeZero Carbon. Ronan.
- 9 MR. CARR: Yeah. Thank you, Nat and thank you
- 10 to the Chairman and the Commission for the
- 11 invitation to speak. So BeZero Carbon is also a
- 12 global carbon ratings agency. And the BeZero Carbon
- 13 rating is the leading risk metric in VCM today with
- 14 325 projects rated accounting for close to half of
- 15 the available liquidity.
- 16 What is it the BeZero Carbon? Well, it's an
- 17 opinion on carbon efficacy. So it's our view on the
- 18 likelihood that a credit will truly deliver a ton
- 19 of greenhouse gasses either avoided, reduced, or
- 20 removed.
- 21 And we express that opinion on an eight-letter
- 22 scale, from AAA, highest likelihood, to single D,

- 1 lowest likelihood. The way we undertake the risk
- 2 assessment is a very holistic approach, looking at
- 3 all of the drivers risk of carbon efficacy across a
- 4 range of different risk factors so we look get
- 5 additionality, we look at the rigor of the carbon
- 6 accounting that underpins issuance, and we look at
- 7 the risk of non-permanence. And this analysis is
- 8 taking into account both top-down evidence from
- 9 academic literature and thousands of third-party
- 10 datasets.
- 11 But also looking at deep geodesic project
- 12 data, geospatial and Earth observation data if it's
- 13 a nature-based project. And the holistic approach
- 14 means we're not looking not just at natural risk
- 15 drivers but also policy risk drivers, socioeconomic
- 16 risk drivers, financial risk drivers to carbon
- 17 efficacy.
- I think the role of ratings in the market is
- 19 important to touch on. I think what they provide is
- 20 fungible tool to differentiate between the
- 21 different credits in the market. We've heard a lot
- 22 about how this is a quite fragmented market, very

- 1 diverse, very heterogenous, and complex.
- 2 And therefore, carbon efficacy and quality are
- 3 sometimes difficult to decipher. Certainly, quality
- 4 is not binary. That's kind of a key theme from our
- 5 perceptive, and having a rating is really a tool to
- 6 express the range of outcomes when we're talking
- 7 about carbon credits.
- 8 Ultimately, it's not possible to 100 percent
- 9 standardize the outcome of a carbon credit. I think
- 10 Robin touched on the kind of statistic, although
- 11 certainly that's inherent when you're modeling
- 12 based on or counter-factual scenario. And so
- 13 quality is necessarily probabilistic, and ratings
- 14 provide the language to express that variation.
- 15 I think it's also important to know that
- 16 bottom-up differentiation really matters. So even
- 17 within, you know, narrow sector types or projects
- 18 of a similar nature, we do find a lot of
- 19 differentiation in the nature-based solution space
- 20 that we have ratings all the way from D to AA and
- 21 even on a narrower stagnant like afforestation, we
- 22 go most of that range similarly.

- 1 I think we also believe that ratings help to
- 2 address some of the traditional challenges the
- 3 market has faced. I think it does help to encourage
- 4 more transparency are certainly more consistency
- 5 and -- of reporting and disclosure.
- I think it helps to facilitate risk-driven
- 7 pricing, provided tool to manage risk, which is
- 8 important in a fragmented market. Historically, it
- 9 was a very poor correlation between price and
- 10 carbon efficacy or quality in the market, but that
- 11 is starting to change on our data, as ratings and
- 12 other risk tools have become socialized in the
- 13 market.
- 14 And this in turn can help to change incentives
- 15 for our project developers, you know, increasingly
- 16 should have the incentive to create high quality
- 17 credits rather than to maximize volume in a more
- 18 efficient, you know, risk-driven pricing scenario.
- 19 Finally, in terms of the market outlook, we
- 20 really see ratings as being key elements of the
- 21 kind of data infrastructure and the information
- 22 architecture that is needed in any healthy asset

- 1 class.
- 2 And as an industry we need to help -- we need
- 3 to build the overall market structure and market
- 4 initiatives like the core carbon principles but
- 5 also regulation do definitely have a role to play
- 6 particularly in continuing to push for higher
- 7 standards of disclosure or reporting and also to
- 8 help raise the minimum standards in the market
- 9 absolutely.
- 10 And they really complement what ratings offer,
- 11 which is the projects level analysis, which allows
- 12 all stakeholders to help to understand quality, to
- 13 understand value, and ultimately improve the
- 14 efficiency of the market and the pricing in the
- 15 market. Thank you.
- MR. KEOHANE: Thanks, Ronan. Our last panelist
- 17 is Bella Rozenberg, Senior Counsel and Head of
- 18 Regulatory and Legal Practice Group at the
- 19 International Swaps and Derivatives Association.
- 20 Bella, to you.
- MS. ROZENBERG: Good afternoon. Thank you very
- 22 much to the Chairman and Commissioners for

- 1 organizing this event, and special thank you to
- 2 Abigail and David. I know it's a huge undertaking
- 3 from my personal experience, so thank you very
- 4 much.
- 5 In the interest of time, I'm just going to
- 6 jump into -- and briefly describe three workstreams
- 7 that ISDA has been working on in the carbon market
- 8 space. So I'll save time for questions.
- 9 The first workstream ISDA is working on is
- 10 developing standard documentation for secondary
- 11 trading in voluntary carbon credits. We call them
- 12 verified carbon credits now.
- 13 Last December, ISDA published the 2022 ISDA
- 14 Verified Carbon Credit Transaction Definitions
- 15 together with forms of confirmations for use with
- 16 certain VCC derivative transactions. ISDA will
- 17 continue to update the definitions to ensure that
- 18 the standards represent the market and regulatory
- 19 best practices.
- 20 The VCC definitions and VCC confirmations are
- 21 the first standardized OTC derivatives
- 22 documentation for secondary market trading in

- 1 verified carbon credits. Notably the ISDA
- 2 documentations refers to the term verified carbon
- 3 credits rather than voluntary carbon credits, to
- 4 reflect is the strong commitment that carbon
- 5 credits are verified by reputable carbon standard
- 6 setters, to avoid and to minimize instances of
- 7 greenwashing and fraud.
- 8 This ISDA documentation can be used for
- 9 physically settled spot, forward, and option
- 10 transactions. Importantly, the ISDA VCC definitions
- 11 have been designed to operate as a global document,
- 12 meaning that they're not specific to any particular
- 13 jurisdiction, region, or a carbon standard.
- 14 So given the global nature of the market,
- 15 cross-border consistency and standardization is
- 16 vital to the success of this market. And we hope
- 17 that the Commission will continue to align its work
- 18 with the IOSCO's initiative, as we know that Chair
- 19 Behnam's is a Vice-Chairman of the IOSCO board and
- 20 a co-chair of IOSCO's sustainable finance task
- 21 force carbon markets work stream.
- 22 The launch of the VCC definitions and forms of

- 1 VCC confirmation is a significant milestone in the
- 2 development of standard OTC derivative
- 3 documentation for secondary market trading in
- 4 verified carbon credits.
- Now, turning on to the second workstream, it's
- 6 assisting national authorities in developing a
- 7 strong legal foundation for the treatment of
- 8 verified carbon credits across jurisdictions.
- 9 A robust voluntary carbon market must be
- 10 grounded in strong legal foundation. And a strong
- 11 legal framework should determine how -- I'm going
- 12 to call them VCCs from now on, verified carbon
- 13 credits -- can be created, bought, sold, and
- 14 retired.
- 15 Such a determination affects what type of
- 16 security may be taken and enforced in relation to
- 17 VCCs and how that can be achieved as well as how
- 18 VCC would be treated following an insolvency,
- 19 including with regard to netting.
- We're happy to report that the US has a strong
- 21 legal foundation for VCCs under its bankruptcy
- 22 laws. Other jurisdictions are less clear, thus

- 1 creating an impediment for global trading and
- 2 ultimately liquidity in this market.
- 3 And I actually would like to underscore this
- 4 point and echo what Commissioner Goldsmith Romero
- 5 mentioned before that this market, you know, suffer
- 6 from fragmentation, and lack of this legal
- 7 consistent treatment of VCCs globally, really
- 8 contributes to this fragmentation.
- 9 So just briefly one jurisdiction holds this
- 10 credit, a bunch of contractual rights and the other
- 11 jurisdiction use them as an intangible property, if
- 12 in case of dispute resolution, how would you treat
- 13 this credit; is it property or is it contractual,
- 14 and therefore, tort rights apply, or if it's a
- 15 contractual, a bunch of contractual rights, then
- 16 you're going to be treated, as you know, as a
- 17 breach of contract there.
- So this is very important, and we encourage
- 19 jurisdiction on national authority across, you
- 20 know, globally to kind of provide clarification on
- 21 this issue. And the third work stream -- I know I'm
- 22 going really fast just to save you guys time -- is

- 1 providing regulatory clarity on the treatment of
- 2 financial instrument tied to VCCs.
- 3 So we are pleased with the Commission's
- 4 confirmations that VCC are commodities and the
- 5 commission has the authority to go after
- 6 participants who engage in fraud and greenwashing
- 7 in the spot market.
- 8 This is very important, because sometimes this
- 9 market is perceived to be outside of any regulatory
- 10 preview. And while we understand that enforcement
- 11 of abusive behavior is necessary to ensure fair
- 12 markets, we also believe that these developing
- 13 markets will benefit from a clear principle-based
- 14 regulatory framework that will set out the
- 15 standards of conduct for all market participants.
- We believe the commission should tap into the
- 17 existing regulatory authority to provide more
- 18 guidance on trading verified carbon credits.
- 19 So for example, since VCC futures are
- 20 considered commodity futures, we believe the CFTC
- 21 and self-regulatory organizations could use the
- 22 same oversight tools that they use in commodity

- 1 futures markets to ensure the integrity of VCC
- 2 markets including conducting additional due
- 3 diligence on carbon registries, given that they're
- 4 used as delivery points for VCC futures contracts.
- 5 So to conclude, it's critical that market
- 6 participants have confidence in voluntary carbon
- 7 markets and that the carbon credits they trade are
- 8 associated with genuine, verifiable, upselling
- 9 projects.
- To achieve this goal, we need a solid legal
- 11 framework for VCC's robust standardized
- 12 documentation and a flexible principles-based
- 13 regulatory approach that can establish regulatory
- 14 certainty while also stopping bad actors. Thank you
- 15 very much.
- MR. KEOHANE: Thanks very much, Bella. I am
- 17 going to look to the chairman, to David, because I
- 18 think we are just about at time.
- 19
- MR. BEHNAM: Take 10 minutes. We'll -- we'll
- 21 make up time on the break. And I guess for
- 22 everyone, just feel free if you need to take a

- 1 break, to step away from the table because we're
- 2 going to have different pockets, but let's just aim
- 3 to finish by 5:00, but give you 10 minutes --
- 4 MR. KEOHANE: Okay.
- 5 MR. BEHNAM: -- and then we'll roll into the
- 6 next panel with -- with them.
- 7 MR. KEOHANE: Great. Thanks very much. So
- 8 we'll see if there are questions. I thought it
- 9 might be useful to start off -- we -- there's one
- 10 major area of standards that are -- or carbon
- 11 crediting program that is actually not a voluntary
- 12 program but interacts with the voluntary program,
- 13 which is the carbon offsetting reduction scheme for
- 14 international aviation or CORSIA.
- 15 And I understand that we were hoping to have
- 16 somebody who -- from the Civil Society to describe
- 17 it. But I wonder if I might call on Assistant
- 18 Secretary Petsonk, to briefly describe. And I think
- 19 for context here, we've heard so much about the
- 20 voluntary standards and what's being done in the
- 21 voluntary market.
- Obviously, CORSIA is part of an international

- 1 program and not the same as a voluntary market, but
- 2 is still relying on many of the same standard
- 3 setting organization. So it might be useful for a
- 4 high-level overview. Please, thanks.
- 5 MS. PETSONK: Thank you. Very briefly, I
- 6 mentioned earlier how CORSIA establishes a baseline
- 7 of emissions allowable for international aviation
- 8 with international aviation being flights between
- 9 participating countries.
- 10 There are over a hundred countries that have
- 11 volunteered to participate in CORSIA and
- 12 participation becomes mandatory in 2027 for all
- 13 countries' airlines with levels of aviation
- 14 activity above a de minimis level.
- 15 When CORSIA was established and the
- 16 governments decided to allow airlines to reduce
- 17 their emissions to meet their required levels or
- 18 offset their emissions using offsets, the
- 19 governments negotiated two sets of standards. The
- 20 first standard sets the requirements for carbon
- 21 offset programs for the integrity of the program
- 22 itself, and the second set of standards applies to

- 1 the credits themselves.
- 2 For example, I'll just give one example of
- 3 this type of credit standard. Commissioner Nazareth
- 4 -- Commissioner Nazareth mentioned the principles
- 5 of the Integrity Council for the Voluntary Carbon
- 6 Market. One of those principles is no double
- 7 counting, no double claiming, no double issuance,
- 8 and no double selling.
- 9 Those are principles taken direct -- those are
- 10 the principles on that issue that are included in
- 11 the standards established by the governments in
- 12 CORSIA, and they are implemented in part through a
- 13 requirement that when offset programs apply for
- 14 eligibility in CORSIA -- and I'll get to that in a
- 15 minute, in 30 seconds -- offset programs must
- 16 provide a written attestation from the host country
- 17 where the projects are located, that the host
- 18 country will not count those reductions toward the
- 19 host country's own targets. So they cannot be
- 20 double claimed by the host country and by airlines
- 21 in that regard.
- The standards are administered by a body,

- 1 which was established by the governments, called
- 2 the Technical Advisory Body or TAB. And that TAB is
- 3 comprised of representatives, subject matter
- 4 experts from the governments from, I think there's
- 5 14. Molly Peter Stanley would know the answer to
- 6 this question because she had chaired the TAB.
- 7 I think there's 14 governments that have
- 8 representatives on the TAB. TAB members are bound
- 9 by ethical standards. They must not participate
- 10 financially in projects or markets themselves. Is
- 11 that enough of an overview?
- 12 MR. KEOHANE: Thanks very much, Annie. So let
- 13 me see if there's any question from the audience
- 14 that is -- or from other panelists.
- 15 Let me then ask very quickly in our remaining
- 16 five minutes, whether -- I think one of the -- one
- 17 of the questions that I think the Commission has
- 18 expressed interest in generally, is the way in
- 19 which these -- some of the initiatives we've heard
- 20 about here could inform staff in -- or that staff
- 21 could draw on in informing exchanges how to
- 22 structure project terms and conditions for carbon

- 1 credit products, are there ways in which these
- 2 initiatives we've heard of could inform staff in
- 3 considering carbon credit derivative products.
- 4 I know we've touched a little bit on this but
- 5 I want to give maybe if there are any of the
- 6 panelists would like to speak a little more to
- 7 that, to the way that perhaps the initiatives we've
- 8 heard of could inform CFTC staff. Annette.
- 9 MS. NAZARETH: I'll take a quick stab. I think
- 10 what's been very helpful in our efforts is the
- 11 interaction with the regulators. And I think that
- 12 in some fashion, sort of recognizing these
- 13 integrity standards as being important for what
- 14 trades on, you know, in the marketplace in an
- 15 organized markets would be very important.
- I think we are currently, and I hope, remain
- 17 pretty much the, you know -- the international
- 18 standard -- it's not the kind of thing where you
- 19 benefit from having five of them but to the extent
- 20 that in your regulatory process, you sort of
- 21 recognize in some way, the importance of these
- 22 standards, which I have said to some, are sort of a

- 1 akin to listing standards in a way. Right?
- I mean, they sort of establish what is now
- 3 the, you know, the standard for high integrity and
- 4 to the extent that those kinds of standards are
- 5 recognized when, for instance, exchanges come in
- 6 or, you know, try to get approval for certain
- 7 futures products. I think that would helpful. And
- 8 again, also, just being able to continue to have
- 9 interaction with the CFTC to the extent that there
- 10 is more learning either way that we can cooperate
- 11 and work together.
- 12 You know, to some extent, we are like a self-
- 13 regulatory organization. Like I say, we're quasi-
- 14 because we're not actually regulated by government
- 15 authorities but that doesn't mean that we don't
- 16 welcome, you know, the assistance and the
- 17 interaction and the collaboration.
- 18 MR. KEOHANE: Thanks, Annette. Anyone else on
- 19 the panel that would like to step in on that? Sam.
- 20 MR. GILL: Yeah. Then I'll just add, I think
- 21 a great complimentary approach is using ratings
- 22 data essentially as an additional layer. Because

- 1 the great thing about these methodology type
- 2 approaches is they set a great standard in terms of
- 3 the new floor that I think we should be pushing
- 4 for.
- 5 So when the CCPs are released, there's no
- 6 excuse to be engaging in credits that are not CCP
- 7 label, that they're a great floor.
- 8 But there will be some false negatives that
- 9 filter through, and there will be some false
- 10 positives that filter through because there's such
- 11 an heterogeneity in the market.
- 12 So the usage of project level data can be very
- 13 helpful, I think in supplementing and then also
- 14 fueling a self-reinforcing strengthening of
- 15 standards because it allows us to work out okay,
- 16 when there are projects that are poorly rated that
- 17 are, you know, filtering through these standards,
- 18 why is that happening. I think it will help to
- 19 strengthen the rating more generally. Yeah.
- MR. KEOHANE: Thanks very much. There's
- 21 someone -- oh, anyone else on the panel? I don't
- 22 see it -- and -- so Dave, I'll give -- so Dave

- 1 Tenny from NAFO, very quickly, and we'll take it in
- 2 two minutes.
- 3 MR. TENNY: Thank you. My question has to with
- 4 stakeholder involvement. So when you're creating an
- 5 international standard or a rating system, it's a
- 6 lot.
- 7 Speak to how you engage stakeholders,
- 8 certainly when the government takes action, there
- 9 is any one of a number of procedural requirements
- 10 for engaging stakeholders sometimes with a non-
- 11 government endeavor there are other types of
- 12 standards that are used to ensure robust
- 13 stakeholder engagement.
- 14 So could you speak to that and just let us
- 15 know what -- how that works and whether there's a
- 16 role in government to ensure that stakeholder
- 17 engagement is as robust as it should be?
- 18 MR. KEOHANE: Thanks. Annette, I'm sure you'll
- 19 want to address that and then -- very quickly and
- 20 we'll see if anyone else would like to as well.
- 21 MS. NAZARETH: Yes. I mean, briefly, we have
- 22 throughout this process welcomed stakeholder

- 1 engagement, even going back to taskforce on scaling
- 2 voluntary carbon markets. As I said, we had over
- 3 450 participants from across the entire spectrum.
- 4 And our core carbon principles and assessment
- 5 framework was built on a very transparent process
- 6 that mimicked regulatory process with full notice
- 7 and comment.
- 8 Going forward, I have to say -- and sort of
- 9 following up on something Sam said, this is going
- 10 to continue to be an iterative process. This is
- 11 only the beginning. Our assessment framework is --
- 12 and CCPs are going to have to be continuously
- 13 curated based on best science and, and best
- 14 practice. And that process itself is going to
- 15 require, and we will welcome input from
- 16 stakeholders as well as basically all members of
- 17 the ecosystem to improve our processes and
- 18 requirements over time.
- I mean, one of the benefits of the full
- 20 transparency that will happen again, one of the
- 21 benefits of being adjacent to a regulated market,
- 22 is that we are going to see things happen, we're

- 1 going to see transactions that we'll say, "How did
- 2 that happen?" Right?
- 3 But -- and that happens in all capital
- 4 markets. But in other capital markets when you see
- 5 some bad trades, nobody says, "We should shut this
- 6 whole thing down." They say, "How do we fix it?"
- 7 And we're going to have to keep in mind that
- 8 that's going to be the process that we're going to
- 9 have to have here as well. What are we learning,
- 10 what are we seeing, sharing with the regulators
- 11 what they're seeing, how do we fix it, how do we
- 12 continue to improve these requirements. And so
- 13 that's what we're committed to do.
- 14 MR. KEOHANE: Thanks Annette. Very quickly
- 15 Robin, and you'll get the last word.
- MR. RIX: Yeah. Absolutely. Stakeholder
- 17 consultation is fundamental to what Verra does.
- 18 We're currently updating our program right now,
- 19 version 4.5 and then version 5, and we are, you
- 20 know, welcoming comments from members of the
- 21 public, stakeholders of all forms.
- 22 And we do that not just for program updates

- 1 but also for methodologies. We do that for projects
- 2 as well. So it's an ongoing process. And as it's
- 3 been said, it's an iterative process where we are
- 4 truly relying on what stakeholders are saying.
- 5 Thank you.
- 6 MR. KEOHANE: Thanks very much. David, Mr.
- 7 Chairman, I'll turn it back to you.
- 8 MR. BEHNAM: Nat, thank you. Really appreciate
- 9 it. Your continued participation and support of the
- 10 CFTC and all the work you do at C2ES. The entire
- 11 panel, thank you. It's really great information and
- 12 something to work from for us at the Commission.
- 13 So we're now going to shift, and as I
- 14 mentioned in my opening remarks, we are extremely
- 15 lucky and privileged to have Dan Berkovitz with us.
- 16 Dan, former commissioner here from 2018 to 2021,
- 17 former general counsel here earlier.
- And I was just thinking to myself the last
- 19 time this room was as full as it is today is
- 20 probably 10 years ago when you were shepherding
- 21 rules through after the financial crisis, most
- 22 recently, general counsel at the SEC, the US SEC

1 and a number of other positions in both the private

- 2 and public sector.
- 3 So couldn't imagine or think of a better
- 4 person to help us discuss exchanges and their role
- 5 in the voluntary carbon markets to both share his
- 6 expertise and his sort of intellectual curiosity.
- 7 So with that,
- 8 Dan, thanks again for being here, and the
- 9 floor is yours.
- 10 MR. BERKOVITZ: Thank you, Chair Behnam. It's
- 11 a real privilege and honor to be back at this
- 12 agency, which I spent many years working with you
- 13 and many people in this room today. And I've worked
- 14 with a number of the folks that I hadn't worked
- 15 with when I was here.
- And it's a great honor to be back and
- 17 contribute to the success to the success of this
- 18 agency and its mission. So I thank you for the
- 19 invitation today.
- 20 It was about two years ago when I was on that
- 21 side of the table and I had the privilege of
- 22 sponsoring the Energy and Environmental Markets

- 1 Advisory Committee, which Commissioner Mersinger
- 2 currently sponsors. And in June of 2021, the EEMAC
- 3 met to consider the topic of carbon markets.
- 4 And I'm struck today, listening to the
- 5 presentations today by the private sector
- 6 participants, by the organizations that are rating
- 7 carbon projects and by the governmental -- your
- 8 colleagues across the government, how much progress
- 9 has been made in the two years since.
- 10 And as you mentioned, I was off at another
- 11 financial agency somewhere else in town, I won't
- 12 mention, for part of that time. But coming back and
- 13 visiting this issue, I really am struck by the
- 14 amount of progress that has been made in developing
- 15 standards, in commitment toward addressing the
- 16 issue of voluntary carbon markets and the integrity
- 17 of the offsets.
- 18 I'm also struck by frankly how much work still
- 19 remains. A lot of work has been done, but there's
- 20 still tremendous challenges going forward.
- 21 And this agency all, I commend you and your
- 22 colleagues, Commissioner Goldsmith Romero,

- 1 Commissioner Mersinger, Commissioner Johnson, and
- 2 Commissioner Pham for your continued commitment and
- 3 engagement towards constructively addressing those
- 4 issues from the CFTC's perspective.
- 5 The CFTC as a number of a people have
- 6 mentioned has the authority over the spot markets,
- 7 the cash markets, is anti-fraud and anti-
- 8 manipulation. The Commission regulates any
- 9 derivatives markets in these products. And we're
- 10 going to be hearing the next two panels, both from
- 11 the spot markets and from the derivative markets.
- 12 But the authority for fraud and manipulation
- 13 in the spot markets, those are very, very broad
- 14 authorities. They must be very broad because as
- 15 courts have recognized, the methods of manipulation
- 16 are limited only by the ingenuity of man. So it's a
- 17 very broad authority. And that leaves a lot of
- 18 uncertainty perhaps in some market participants
- 19 where they fall on the line. There are some clear
- 20 cases but -- so what's going on, and I think the
- 21 efforts that the commission's undertaking and the
- 22 dialog that we see here today, is incredibly

- 1 important that the Commission and the regulators
- 2 understanding of standards in the market, is in
- 3 sync with the markets understanding of those
- 4 standards.
- 5 And there's feedback and dialogue back and
- 6 forth. So there may not be surprise at the end of
- 7 the day if, you know, in an enforcement action that
- 8 the standards aren't as clear as possible upfront,
- 9 recognizing that the Commission's standards are
- 10 very broad and needs that broad flexibility in
- 11 order to address novel methods of fraud or
- 12 manipulation.
- So I think this effort that is going on today
- 14 is incredibly important in that respect, and
- 15 therefore, the next two panels are very important
- 16 in terms of fostering that dialogue.
- 17 The importance to the Commission of spot
- 18 market is not just with respect to its authority
- 19 over fraud and manipulation in that market and
- 20 potential enforcement action.
- 21 But to the extent that there are derivative
- 22 markets, the spot markets are really part of the

- 1 price formation process, part of the settlement
- 2 process, part of the foundation for the derivative
- 3 markets.
- 4 The derivative markets are derivative, of
- 5 those spot markets. So ensuring the integrity of
- 6 the spot market promotes robustness of derivative
- 7 markets.
- 8 And I think as Commissioner Nazareth pointed
- 9 out, the derivative markets here can play an
- 10 incredibly important role. If we're talking about a
- 11 problem that's going out, and we are talking about
- 12 an issue going out to 2050 and goals to 2050, how
- 13 do people manage those long-term risks.
- 14 And futures markets and other derivative
- 15 markets can really help manage those risks and
- 16 reduce those risks over the long term as well as
- 17 shift those -- many of those risks to the entities
- 18 that can -- that spare those risks.
- 19 So the spot market are of incredible
- 20 importance to the CFTC, not just because of
- 21 potential oversight of this market for fraud and
- 22 manipulation but as the foundation for the

- 1 derivative markets, which are risk management and
- 2 price discovery in the carbon offset market.
- 3 So with that, I'm pleased to turn to our panel
- 4 on the spot exchanges, and I'll also introduce our
- 5 speakers as they -- as I call on them. And so our
- 6 first speaker is Russell Karas, Head of Commodities
- 7 at Xpansiv. So Russell, please go ahead.
- 8 MR. KARAS: Thank you. And thank you to the
- 9 Chairman and the Commissioners for organizing this
- 10 panel and inviting Xpansiv to speak. If we could
- 11 pull up the presentation that would be great.
- 12 Thank you. You can flip to that first slide.
- 13 So Xpansiv is an infrastructure provider for global
- 14 commodities through a variety of mergers,
- 15 acquisitions, and organic growth. We are now over
- 16 90 percent of global carbon spot that's traded on
- 17 exchange comes through Xpansiv. We have over 1,500
- 18 participants across water, carbon, renewables, and
- 19 digital fuels.
- We've had over 280 million tons of carbon
- 21 trade since 2020. We've had more than 2.1 billion
- 22 environmental assets transferred through our

- 1 infrastructure since 2021. And we have over 70
- 2 percent share of global carbon offsets as well as
- 3 North American renewable energy credits that use
- 4 our software today. Please flip to the next slide.
- 5 One back.
- 6 So to give an idea of the progress that's been
- 7 made and as Robin said the amount of information
- 8 that is available, you know, this is -- the thesis
- 9 of Xpansiv is to make a more efficient marketplace
- 10 from end to end.
- 11 So we really have three layers of our
- 12 infrastructure last year with the acquisition of
- 13 APX. Xpansiv is now the largest developer and
- 14 operator of registry technology and infrastructure
- 15 in the world. We provide the infrastructure for
- 16 Verra, Climate Action Reserve, American Carbon
- 17 Registry, as well as many of the renewable energy
- 18 credit registries throughout North America.
- 19 And those registries then plug in via API to
- 20 our portfolio management system, as well as other
- 21 non-expansive registries. So we have 12 registries
- 22 that are already connected to our EMA portfolio

- 1 management system today, and we'll be announcing
- 2 another three to five through the balance of the
- 3 year.
- 4 So we already have this kind of meta registry
- 5 structure in place. Last year alone, we had over a
- 6 billion environmental credits that transferred
- 7 through our portfolio management system. The
- 8 advantage there is that your market participant,
- 9 you have access to a variety of compliance and
- 10 voluntary markets all in one location.
- And again, using APIs existing technology, we
- 12 are able to then plug it into our marketplace, and
- 13 there you can really feed all the way back to the
- 14 registry in terms of data, price signals created
- 15 through trading.
- But also, when we look at things like how our
- 17 different projects and regions and co-benefits in
- 18 vintage years, once they're tagged by the registry,
- 19 we can pull that through the marketplace using this
- 20 infrastructure, and then the price discovery takes
- 21 place in an open and transparent platform.
- Once we reach that level of transparency and

- 1 efficiency, we're able to partner with groups like
- 2 CME and we structured standardized instruments
- 3 using data and transactions to help put those
- 4 together using CORSIA as our initial framework for
- 5 our prototype, the GEO contract.
- 6 Then we can work with CME to list futures
- 7 contracts, where now market participants have a
- 8 liquid forward curve for the first time, which is
- 9 also regulated by the CFTC. And we also work with
- 10 some of the largest price reporting agencies in the
- 11 world like S&P Global Platts, who take in our data
- 12 and create daily price assessments. If you could
- 13 please go to the next slide.
- 14 This is the common story we've heard today.
- 15 This is just our exchange data. 2020, we had 30
- 16 million tons that went through our platform, which
- 17 exploded by four folds to 120 million tons over the
- 18 past two years. And the value of that went from \$23
- 19 to 24 million, up to \$800 million last year.
- 20 Please, next slide.
- 21 And now this year, obviously we have a variety
- 22 of headwinds but I can say that we have sales teams

- 1 on the ground between our various entities in every
- 2 region in the world that are working with market
- 3 participants on a daily basis.
- 4 And this is natural end users, corporates
- 5 natural suppliers, project developers, funds,
- 6 banks, managing risks on behalf of their clients,
- 7 the largest integrated energy companies in the
- 8 world. We have the same kind of theme as we talk to
- 9 these customers that this is a short-term kind of
- 10 cooling period, but there's still a long-term
- 11 positive outlook.
- There's still a lot of capital being mobilized
- 13 towards this effort. A lot of this slowdown has to
- 14 do with the new buyers that came in and their
- 15 hesitation, and that has to do with the negative
- 16 media coverage, macroeconomic headwinds, and high
- 17 interest rates. But yet we continue to see the
- 18 futures remain active, over 100 million tons
- 19 executed by May of this year.
- 20 Right now, we have outstanding open interest
- 21 in the futures complex of over 25 million tons. And
- 22 we're actually seeing more firms come on board and

- 1 participate. We had a record Q1 in terms of number
- 2 of participants. It's not, firms can't flip a
- 3 switch and start to trade voluntary carbon, they
- 4 have to set up the registries.
- 5 They've become comfortable internally on what
- 6 type of offsets they're going to execute. That
- 7 could take six, twelve, eighteen months for some of
- 8 these participants. At the halfway mark, we're
- 9 already up to 182 participants, which is closing in
- 10 our record last year overall of 199. Also, we do
- 11 not see the majority of firms exiting their
- 12 decarbonization strategies.
- 13 Rather, they're taking their time and being
- 14 thoughtful. We've heard a lot of stats from
- 15 retirements today. Q1, we had 48 million tons
- 16 retired, which is the third highest of all times.
- 17 We see existing users continue to retire their
- 18 credits. Could you please flip to the next slide?
- I'd also say, you know, we've -- we've also
- 20 found almost a price floor over the last six
- 21 months. Again, plenty of headwinds that have
- 22 entered this market, but now, if you look all the

- 1 way to the right, we're actually seeing these
- 2 prices increasing just over the last few weeks.
- 3 And part of the reason for that, if you flip
- 4 to the next slide, are a lot of the things, and
- 5 it's been very reassuring to hear these themes over
- 6 and over again today where we have green shoots.
- 7 Again, this is an oversupplied buyers' market,
- 8 where buyers are looking for some sort of integrity
- 9 or standard that they can purchase, and that's
- 10 defensible and high integrity. We have -- we have
- 11 this frame -- these frameworks in the mix.
- We have CORSIA, which March of this year, as
- 13 we've said, ICAO lists the first details around the
- 14 initial compliance phase that runs from 24 through
- 15 26. They approved ACR and the arteries, and we
- 16 expect more to be approved this November.
- 17 The VCMI, also through their claims Code of
- 18 Practice, also came out and supported CORCIA pilot
- 19 and compliance phase usage by corporates as a
- 20 bridge to get to the ICVCM core carbon principles.
- 21 And what makes this exciting is not that these
- 22 three initiatives are moving forward on their own,

- 1 but that we're starting to see synergies and
- 2 support between the three, which is what's going to
- 3 help instill confidence in the market. And of
- 4 course, if you add in more firm guidance around
- 5 corresponding adjustments in Article 6, that's
- 6 going to continue on that theme.
- 7 When this market comes back, we're also going
- 8 to be in a much stronger position in addition to
- 9 the infrastructure that we've been developing at
- 10 Xpansiv and with other entities. We're going to
- 11 have a much more educated marketplace than when we
- 12 saw that initial increase in 2021.
- 13 Firms now understand that offsets have to be
- 14 part of a broader decarbonization strategy. And
- 15 that alone cannot be their own goal. There's no
- 16 silver bullet in the environmental markets. We need
- 17 every tool that we can. We're also seeing firms in
- 18 the meantime focus on scope two emissions.
- 19 So just because they're not using carbon
- 20 offsets, it does not mean they're not addressing
- 21 their decarbonization strategy. Our renewable
- 22 energy credit volume has doubled this year and we

- 1 started to offer international renewable energy
- 2 credits through the evident registry, which is
- 3 where you could create voluntary carbon markets in
- 4 any country throughout the world.
- 5 And again, the rating agencies, which we've
- 6 heard from today, continue to play a role in firms
- 7 that are looking for more of that deep dive into
- 8 the projects. So we believe that this market will
- 9 come back. We think a lot of people in this room
- 10 are going to help and assess with that and
- 11 hopefully accelerate that.
- 12 And when it does, we're going to have better
- 13 liquidity, more transparency and we'll scale in a
- 14 more responsible manner. Thank you.
- MR. BERKOVITZ: Thank you, Russell. We'll now
- 16 turn to Daniel Scarbrough, who is the President and
- 17 Chief Operating Officer of Incubex.
- 18 MR. SCARBROUGH: Thanks a lot, Dan. Was very
- 19 proud to participate in that EEMAC meeting that you
- 20 chaired in 2021.
- 21 Thanks to Chairman Behnam, David and Abigail
- 22 in particular, the rest of the Commission on

- 1 putting this event together. You know, really
- 2 applaud the efforts to, you know, try to understand
- 3 these markets better, get the right stakeholders
- 4 involved.
- 5 Also, very encouraged to see other members
- 6 from the US government here in attendance as well,
- 7 along with many leaders in this industry. Just very
- 8 quickly a little bit about Incubex for background,
- 9 we are a specialist environmental product developer
- 10 formed in 2016.
- 11 Our team really comes from -- largely from
- 12 climate exchange where exchange based environmental
- 13 trading was really pioneered back in the late 1990s
- 14 and early 2000s under Dr. Richard Sander, Dr.
- 15 Michael Walsh. You know, I think these discussions
- 16 are very important, first and foremost based on,
- 17 many lessons learned over the years in
- 18 environmental markets.
- 19 And, you know, as many panelists have
- 20 discussed today, these markets actually are not
- 21 very new in nature. Voluntary carbon markets have
- 22 been around for 30 years plus, as have

- 1 environmental markets. CFTC has been the regulator
- 2 of exchange based environmental trading going on 20
- 3 years now.
- 4 So going back to the SO2 futures launched back
- 5 at Chicago Climate Exchange back in 2004, these
- 6 markets have been around for quite some time. But
- 7 that institutional memory in these markets can be
- 8 lost over time as well. So many of the lessons
- 9 learned throughout time, I guess, that 20-year
- 10 period of time are really applicable today.
- 11 So there are a lot of, I think, challenges
- 12 with the VCM that are not necessarily new
- 13 challenges, but certainly new innovation, new
- 14 capital that are coming into these markets that are
- 15 very promising. Just going in just quickly to the
- 16 next slide. Just a little bit of background.
- 17 I was asked to talk a little bit about CCX
- 18 just for some of that background and the
- 19 institutional memory. CCX was really formed as a
- 20 voluntary, but legally binding exchange where
- 21 almost 500 companies participated at the peak of
- 22 that program.

- 1 Many leading utility companies in the US, AEP,
- 2 Dynegy, NRG, as example, International Paper,
- 3 DuPont, IBM, Iowa Farm Bureau. North Dakota Farmers
- 4 Union is a very big participation from a broad
- 5 sector of industries, but really companies trying
- 6 to understand how carbon markets worked, things
- 7 like measurement.
- 8 How do you measure your carbon footprint,
- 9 which obviously over the last 20 years have
- 10 advanced significantly through new technology.
- 11 However, many of these concepts were actually
- 12 proven quite some time ago.
- In terms of best practice, you know, a lot is
- 14 being discussed around integrity of the voluntary
- 15 carbon markets and really, you know, many of the
- 16 panelists have mentioned it, you know, this is
- 17 really a layered approach.
- 18 And if you look at market infrastructure in
- 19 the CCX program you had, for example, emissions
- 20 audits being conducted by FINRA at the time.
- 21 That was really to try to promote best
- 22 practices around emission management. And about 85

- 1 percent of the carbon traded under the CCX program
- 2 were actually direct emission reductions under the
- 3 commitments taken legally binding by these
- 4 companies. Really, again, in the absence of federal
- 5 legislation.
- And again, you know, much of the focus is
- 7 around voluntary versus compliance, but one point
- 8 of example there, about 700 million tons were
- 9 capped at the peak in the CCX program, which is
- 10 actually more than the entirety of compliance
- 11 carbon capped in the US today. If you look at
- 12 California and the RGGI programs, and more recently
- 13 Washington State.
- 14 So it was a quite sizable program, about half
- 15 the size of the EU UTS. In that seven year or so
- 16 period of time, you had about 150 million tons
- 17 trade that had weighed average price of 326 and
- 18 then most importantly, maybe to this discussion.
- You know, many offset protocols that were, you
- 20 know, advanced at that time obviously, you know, if
- 21 you look at, you know, some of the advancements,
- 22 you know in Verra, Gold Standard, many of these

- 1 protocols that they're speaking of have -- are on,
- 2 you know, version 4.5, 5.0 through public
- 3 engagement, 30-day comment periods over the last 15
- 4 plus years.
- 5 Just quickly on the second -- the next slide,
- 6 the overlay here really at the time as well CCFE
- 7 was the first environmental derivatives exchange
- 8 that was granted a DCM license in 2004.
- 9 Really, as I mentioned, the launch of SO2
- 10 futures in December of 2004 that year. Many of the
- 11 first environmental futures contracts were actually
- 12 launched and traded on that exchange, including the
- 13 first compliance carbon contract in the regional
- 14 greenhouse gas initiative in 2008.
- The CFI future, so really the first voluntary
- 16 carbon futures contract was launched in 2007, quite
- 17 some time ago. I think in 2010, CFTC ruled that
- 18 contract was not a significant price discovery
- 19 contract. So very topical even back in 2010. So
- 20 this has been really an ongoing conversation for
- 21 quite some time.
- 22 That CCFE business was acquired by ICE in

- 1 2010. That's now part of the Intercontinental
- 2 Exchange offering. If you can go to the next slide,
- 3 please. Our Incubex business today, as I mentioned,
- 4 was formed in 2016 as a partnership model. We have
- 5 a global partnership with EEX Group and Nodal
- 6 Exchange really to develop environmental
- 7 commodities.
- 8 Over that period of time, we've developed the
- 9 broadest set of environmental contracts on any
- 10 exchange platform, something that we're very proud
- 11 of with our partners at EEX and Nodal.
- 12 Also in 2021, which is really the topic of
- 13 this conversation, we developed a partnership in
- 14 technology with Trayport, a leading global energy
- 15 trading platform to develop the voluntary carbon
- 16 climate marketplace, which is really a spot
- 17 marketplace for voluntary carbon offsets. Next
- 18 slide, please.
- 19 A little bit about TVCM. So the basis of this
- 20 really is to bring best in class market
- 21 infrastructure from a traded central spot
- 22 marketplace perspective for voluntary carbon. Some

- 1 of the core tenets here, neutrality, open access,
- 2 price discovery, transparency.
- 3 Just trying to increase these things to a
- 4 level of best practice in the market building upon
- 5 really what's already a universe of energy traders
- 6 on the Trayport, trading platform of over 6,000
- 7 traders globally on that platform.
- 8 So one of the leading trading platforms
- 9 globally for energy, bringing that visibility to
- 10 voluntary carbon if you are, you know, trading on
- 11 the Trayport platform, you can execute and view
- 12 market data on things like the regional greenhouse
- 13 gas initiative futures contracts on Nodal Exchange
- 14 or the European Union, EU ETS compliance market for
- 15 carbon, executing trades on leading exchanges like
- 16 EEX, Intercontinental Exchange over in Europe.
- 17 So Trayport is really an aggregator of
- 18 marketplaces. Next slide please. Some of these
- 19 comments, you know, really just general comments
- 20 about the VCM market has been around for quite some
- 21 time. These offsets are generally issued by
- 22 independent registries in accordance with best

- 1 practices that have been evolving over that period
- 2 of time.
- 3 Protocols are going to differ a lot. The
- 4 heterogeneous nature of this market that has been
- 5 alluded to over time, but there are many
- 6 commonalities as well across registries and
- 7 protocols.
- 8 So you know, really trying to build upon that.
- 9 I think I'm at my time limit here, so I'm just
- 10 going to quickly maybe move forward to one more
- 11 slide from that.
- 12 A few comments just quickly about a well-
- 13 functioning market, you know, really building upon
- 14 the successes of other environmental markets and
- 15 other commodities generally from a market
- 16 infrastructure perspective, utilizing those same
- 17 tenets and the voluntary carbon market we feel like
- 18 is important, and then best practices for
- 19 infrastructure providers as well.
- You know, things like KYC, AML, IT security,
- 21 and really building those best practices into the
- 22 operations, but I'll cut it off there so I don't

- 1 draw any further overtime. Thank you.
- 2 MR. BERKOVITZ: Thank you, Daniel. Appreciate
- 3 your respect on the time component there. The next
- 4 few panelists will be joining us virtually. And the
- 5 first one is Julien Hall, pricing director at
- 6 Climate Impact X. Julien.
- 7 MR. HALL: Thank you very much. I'm very
- 8 thankful to the Commission for the invitation to
- 9 speak today.
- 10 Unfortunately, I'm unable to see the room and
- 11 whether my slides are showing, but I'll carry on
- 12 the assumption that they are. And in any event, I
- 13 only have two slides, so that should make it
- 14 reasonably easy.
- MR. BERKOVITZ: We do see them. Thank you.
- MR. HALL: You do. Fantastic. So Climate
- 17 Impact X is a global marketplace, auctions house,
- 18 and exchange for trusted carbon credits based in
- 19 Singapore. We're jointly owned by DBS Bank,
- 20 Singapore Exchange, Standard Chartered and
- 21 Temasek's decarbonization investment platform
- 22 called Gen Zero.

- 1 Essentially, our three platforms, I'll briefly
- 2 talk through all three of them with a focus on
- 3 exchange. Marketplace allows our global corporate
- 4 clients to browse, compare, buy and retire a
- 5 selection of high-quality carbon credits of
- 6 different types.
- 7 Our auction service, which is something we
- 8 really sort of pioneered in the last couple of
- 9 years, allows our clients to access unique, new and
- 10 desirable credits and perform price discovery
- 11 exercise that really is helpful to both buyers and
- 12 sellers.
- And finally, with the exchange, and this is
- 14 where I'd like to deep dive in a little bit
- 15 further. If you could change to the next slide,
- 16 please.
- 17 The aim with the CIX Exchange, which was
- 18 launched on June 7th, just over a month ago, was to
- 19 address industry calls for greater transparency and
- 20 certainty by setting up a brand-new two-way spot
- 21 trading platform that caters to really professional
- 22 traders for both standardized contracts and

- 1 individually listed carbon credit projects as well.
- 2 Alongside this, we're publishing price
- 3 benchmarks, which are underpinned by the data, the
- 4 high-quality data from the exchange. So I'll
- 5 briefly talk through a few of the innovations that
- 6 we've brought to the market. From the point of view
- 7 of the trading infrastructure, the pricing session
- 8 that we've introduced is something quite new.
- 9 So we've effectively concentrated liquidity
- 10 into a daily 30-minute pricing session, bringing an
- 11 experience from other commodity markets where this
- 12 is quite common. We've also, from the point of view
- 13 of trading infrastructure, created a platform that
- 14 is based on pre-funding.
- 15 So both the credits and the cash sit with us
- 16 before any bid or offer is submitted on the screen.
- 17 And what that means is instant delivery and pre-
- 18 trade and re-trade potential, right? So increasing
- 19 liquidity. Both the standard contracts and the
- 20 single projects are available on the same screen
- 21 and trading on the same screen.
- 22 And the purpose there is to sort of develop

- 1 very intuitive discovery of price differentials
- 2 between a project-to-project and benchmark-to-
- 3 project. On the design of the standard contracts,
- 4 this is something where we've also introduced some
- 5 innovations. Our very first standard contract is
- 6 called Nature X.
- 7 It's actually a standard contract focusing on
- 8 nature-based carbon credits. And the key thing
- 9 we've done is we've very much tightened the
- 10 definition of what is deliverable into that
- 11 contract. We focused in on well-known typical
- 12 projects, which is something that you see, you
- 13 know, in oil markets with the data brand benchmark
- 14 or in the iron ore market with the IDX benchmark.
- These are successful commodity price
- 16 benchmarks, which have honed in on what are typical
- 17 large sort of projects in terms of the standard
- 18 contract definition. And what this means for Nature
- 19 X is that only 11 large REDD+, you know, avoided
- 20 deforestation projects and deliverable into our
- 21 contract. So over time, the emphasis will be on
- 22 stability.

- 1 We don't intend to change this basket more
- 2 often than we need to, but of course the list will
- 3 eventually need to evolve with the market. We've
- 4 put in place governance for both the standard
- 5 contracts and the benchmarks that is in alignment
- 6 with best practices, including the IO standard
- 7 principles.
- 8 So how has it gone so far? We've launched just
- 9 a month ago, like I said, we're seeing good depth
- 10 of participation on the benchmark contract every
- 11 day with several participants on the bid side and
- 12 off the side. We're seeing a bit of a spread
- 13 narrowing to within five cents on a typical day in
- 14 the liquidity window, and we are seeing
- 15 transactions most days.
- So those transactions, together with the firm
- 17 bids and offers on the screen, are providing us
- 18 with a consistent stream of high-quality pricing
- 19 data that is enabling us to publish robust
- 20 benchmarks, but is also benefiting the wider market
- 21 with a new level of price transparency. So far,
- 22 we've seen 20 different projects.

- 1 Vintage pairs are being bid on off and on
- 2 screen, including blue carbon, deforestation,
- 3 reforestation and REDD+. We've had 30 companies. We
- 4 launched the exchange with 30 companies being on
- 5 boarded and we've got another 15 to 20 going
- 6 through the onboarding process.
- 7 We'd really like to encourage more companies
- 8 to come and join us and further deepen our work to
- 9 increase price transparency in the market. I'll
- 10 just conclude by saying that in the design of what
- 11 we're doing and in the contribution that we're
- 12 making to the market, we've really drawn on some of
- 13 the lessons from oil, coal and iron ore markets.
- 14 For example, where we've seen the emergence of
- 15 private sector, physical spot trading platforms,
- 16 very often they've been supported by collective
- 17 groups of market participants to see price
- 18 transparency and liquidity, and essentially help
- 19 establish more robust spot price benchmarks and
- 20 eventually, risk management tools.
- 21 So we're very excited to continue to do that
- 22 and very happy to answer any questions.

- 1 MR. BERKOVITZ: Thank you. Julien. Will now
- 2 turn to Thomas McMahon, co-founder and Chief
- 3 Executive Officer, Air Carbon Exchange. Thomas.
- 4 MR. MCMAHON: Thank you very much. And thank
- 5 you. Chairman Behnam and all the commissioners for
- 6 having us -- having invited us here today. I just
- 7 want to start by saying that it is ACX's belief
- 8 that the CFTC has a critical role to play in the
- 9 regulation of all environmental offsets, and
- 10 especially in the voluntary carbon markets.
- 11 As the lead regulator, for the net effect can
- 12 only be seen as one of building confidence in these
- 13 markets. However, absent this process so far, is
- 14 any federal regulation or legislation on a national
- 15 level to address the compliance market or the
- 16 voluntary carbon market.
- 17 A little bit on the history of ACX. We were
- 18 formed in Singapore in 2018, really to create what
- 19 we saw as the future environmental credits markets
- 20 by merging what we saw as the best practices of
- 21 traditional commodity markets architecture and
- 22 introducing digital innovations.

- 1 Examples of this with the traditional
- 2 concepts, such as custody for both carbon credits
- 3 and the members capital and separate omnibus trust
- 4 accounts, but also technological innovation of
- 5 having the transactions and voluntary carbon
- 6 credits and standardized contracts recorded on
- 7 blockchain and use of a distributed ledger
- 8 architecture to support that.
- 9 ACX now operates on a fully regulated
- 10 standalone carbon market. For our inception, we saw
- 11 it to be a fully regulated marketplace.
- We achieved this in 2022 in Abu Dhabi
- 13 following the implementation of new capital markets
- 14 framework for spot commodities by the Financial
- 15 Services Regulatory Authority, FSRA, and by ADGM,
- 16 the Abu Dhabi Global Markets.
- 17 FSRA is currently the only regulator globally
- 18 that has classified both carbon credits as a
- 19 financial instrument, as well as a spot commodity.
- 20 Where the trading of which is subject to financial
- 21 regulatory framework modeled on FISMA of the UK.
- 22 And we found this to be really important

- 1 because initially when we established ourselves in
- 2 Singapore, MAS chose not to regulate, because they
- 3 didn't regulate the underlying asset. And we found
- 4 it difficult to find any financial institutions
- 5 that really commended to be able to bring it on
- 6 balance sheet.
- 7 So we really sought the regulator. And FSRA,
- 8 like the CFTC is an IOSCO member and works under
- 9 IOSCO standards and principles, and this was key
- 10 for us also to with the 91-plus signatory countries
- 11 and cross border recognition. We wanted to take
- 12 advantage of this. And that was part of what
- 13 actually brought our invitation here today, and
- 14 thank you again for that.
- Our first exchange in Singapore currently has
- 16 178-member firms and it comes from 32 different
- 17 countries. So our original mandate was to build it
- 18 in Singapore and face outwards and we did that
- 19 successfully.
- 20 And these include -- the market participants
- 21 include, but are not limited to banks, trading
- 22 firms, energy players, corporates, financial

- 1 institutions, as well as carbon project developers.
- 2 ACX employs a hub and spoke technology model,
- 3 which has led it to being able to set up in
- 4 multiple instances and joint ventures in several
- 5 countries, as well as on a number of continents, so
- 6 that both domestic and international credits can
- 7 trade on a global order book, and that it can be
- 8 assessed internationally.
- 9 And the member of firms and participants can
- 10 execute on a spot exchange, an auction exchange, a
- 11 carbon markets board, which is an OTC offers direct
- 12 to member firms that are on-boarded. And lastly, a
- 13 carbon finder and RFQ methodology that allows for
- 14 firms on the exchange to look for specific
- 15 attributes across different projects and the
- 16 attributes, such as STGs.
- 17 And we also offer standardized contracts of
- 18 OTC matching block trade facility and AFP and
- 19 clearing facility. We also have in regulatory
- 20 approvals, we've got approvals for our full CCP and
- 21 full clearinghouse in Abu Dhabi, which will be
- 22 focused on broad environmental instruments as well

- 1 as voluntary carbon.
- 2 We currently also list the suite of standards
- 3 contracts, as I've noted, which is very similar to
- 4 what my 2 prior predecessors have spoken about. The
- 5 ACX is committed to eliminating the friction and
- 6 opacity inherent in the VCM transaction.
- 7 And we felt that the technology via Air Carbon
- 8 Technologies was built to eliminate these questions
- 9 around double counting, double spend, double
- 10 retirements of credit contracts.
- We accomplish this by changing the nature of
- 12 the exchange and registry relationship, taking a
- 13 page at a traditional account architecture and
- 14 introducing the individual registries at Omnibus
- 15 trust account structures for the comingled LSOC
- 16 principal client Carbon Holdings, which kept
- 17 bankruptcy remote from the exchange, but fully
- 18 KYC'd.
- 19 And it employs the smart contracts to create a
- 20 digital record of every individual carbon credit
- 21 deposited and transacted. A robust inventory
- 22 management system built into the exchange knows the

- 1 beneficial owners in real time. We have a T-0
- 2 settlement cycle currently on our systems. And
- 3 we'll look to maintain either T or T-1 as we move
- 4 into derivatives.
- 5 It can also connect and transmit instructions
- 6 and report via APIs with the likes of both Verra
- 7 and Gold Standard and other registries, and any
- 8 change of beneficial owner, as well as any direct
- 9 retirement of credits, again, be seen in real time.
- 10 And this instruction is then processed by the
- 11 registry with the transaction records printed on a
- 12 blockchain with full auditability, transparency and
- 13 immutability and interoperability, which we felt
- 14 was very intrinsically important because we're
- 15 dealing with a digital commodity by nature.
- 16 We believe that the voluntary carbon market is
- 17 evolving very similarly to that of the traditional
- 18 commodities markets, such as NYMEX and the other
- 19 exchanges in the energy space in the '80s, the
- 20 advent of the WTI crude markets in '83, Brent in
- 21 '88, Henry Hub in '90, and the power markets in '93
- 22 and '94 in US and Europe.

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Good delivery standards established a viable
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- 2 and liquid futures market that did not previously
- 3 exist. A narrow enough good delivery window that
- 4 allowed for a benchmark price to develop, these
- 5 delivery standards were not so narrow as to be
- 6 exclusive to only a few, but not so wide as to
- 7 allow for questionings of quality and integrity.
- 8 This is where we anticipate the markets to
- 9 naturally evolve. We see that this is going to move
- 10 into a convergence of the compliance and voluntary
- 11 carbon deliverables, where projects, companies,
- 12 banks, financial institutions will be able to trade
- 13 forward and have a mark-to-market pricing.
- 14 The scheme will also create a warehouse for
- 15 environmental credits, which will be a first. The
- 16 ability to deposit, borrow and lend against the
- 17 deposited collaterals on exchange in a licensed
- 18 facility. I'm calling it a carbon warehouse.
- 19 That'll price credit inventories with a clear mark-
- 20 to-market.
- 21 And the risk management on the underlying
- 22 unlock credit in these markets will help fund more

- 1 projects and innovation and become very circular.
- 2 Looking historically at commodities, there has
- 3 always been a parent agency in the background USDA
- 4 for agriculture, FERC for energy.
- 5 The CFTC whose origins were originally part of
- 6 the USDA, going back to 19 -- prior to 74, was
- 7 created to address the ever-evolving futures
- 8 products that were emerging. We learned to take the
- 9 spot market knowledge and to apply it to the
- 10 futures and derivatives markets.
- 11 Currently, the voluntary carbon market and a
- 12 broader environmental instrument market is
- 13 parentless in agency terms. Yet this emerging asset
- 14 class of carbon instruments will have the same
- 15 embedded commoditized cost that we have
- 16 economically absorbed over the past 40 years in the
- 17 case of energy.
- 18 We successfully built a hedging and investment
- 19 tools to address these needs, and now it is the
- 20 VCM's time to be addressed adequately. In closing,
- 21 we would like to reiterate again that we believe
- 22 that regulators must be part of this process, and

- 1 we welcome the CFTC to take the lead role in the US
- 2 and help set global standards. Thank you very much.
- 3 MR. BERKOVITZ: Thank you, Thomas. Final
- 4 speaker on this panel is Corli Le Roux, senior
- 5 specialist, United Nations Sustainable Stock
- 6 Exchanges Initiative.
- 7 MS. LE ROUX: Thank you. Thank you, Mr.
- 8 Moderator, Mr. Chairman and to the Commission and
- 9 everybody in the room. It's lovely to join you and
- 10 thank you very much for the opportunity to share
- 11 some thoughts with you today. I have some slides. I
- 12 don't know if they will come up, but I will carry
- 13 on in the interest of time.
- 14 The UN SSE is a UN partnership program founded
- 15 in 2009. Our mission really is to provide a global
- 16 platform for exchanges, exploring how they can
- 17 influence and enhance performance on ESG issues. So
- 18 we currently have 133 partner exchanges. There's a
- 19 regulator working group, and we have topic specific
- 20 advisory groups for the work that we do.
- 21 We have a number of work streams and climate
- 22 action is a focused work stream that incorporates

- 1 work on net zero as well as on carbon markets and
- 2 you can see some of the other work streams that
- 3 that we have there. Moving to the next slide then,
- 4 how did we become involved in the work on carbon
- 5 markets?
- 6 It really was a conversation with our
- 7 exchanges throughout the course of last year, where
- 8 many of the exchanges came to us and said this is a
- 9 trend that they're seeing VCMs and compliance
- 10 carbon markets are growing and there are increasing
- 11 calls for them to become involved.
- 12 And so, we started to look into how we can
- 13 help share information and help our exchanges to
- 14 learn more and how they can intervene and become
- 15 involved.
- 16 So we released a market monitor, which is in
- 17 the shape of an FAQ kind of document at COP27 and
- 18 we established an advisory group on carbon markets,
- 19 which in the end comprised just around 90 members
- 20 from almost 40 countries around the world.
- 21 So this document, a guidance document, which
- 22 will be released in October at the World Investment

- 1 Forum in Abu Dhabi, is currently under development.
- 2 It does cover both compliance markets and voluntary
- 3 carbon markets, but it really intends to kind of
- 4 give an overview of what the markets entail and how
- 5 exchanges can interact with them.
- 6 Because what we've been seeing, and if we move
- 7 to the next slide on the state of play, as I
- 8 mentioned, we've seen a growing exchange
- 9 involvement. And the interesting thing is that the
- 10 exchanges that we see from our membership are
- 11 becoming involved at every different element of the
- 12 carbon market value chain.
- 13 The entry points include government mandates.
- 14 We see countries like Egypt and Malaysia where
- 15 their governments have given them a mandate to
- 16 develop a voluntary carbon market. We see them
- 17 wanting to grow their environmental market
- 18 offerings.
- 19 And then there's also involvement, whether
- 20 it's at the project development stage, primary or
- 21 secondary market, and even in providing technology
- 22 solutions such as trading platforms. Also,

- 1 exchanges are seen to have the potential to help
- 2 contribute to the scale and liquidity and the
- 3 integrity.
- 4 And this is why I think sessions like today is
- 5 very important, because obviously there are others
- 6 who recognize this as well. And the CFTC has a
- 7 significant role to play to help also exchanges
- 8 understand how they can engage best in these
- 9 markets.
- 10 So the guidance that we're developing aims to
- 11 support exchanges. As I mentioned, we cover all of
- 12 the compliance and voluntary carbon markets, we do
- 13 a light touch review of the typical and anticipated
- 14 challenges, many of which have already been touched
- on today, and then we provide a framework for the
- 16 potential actions that exchanges could take.
- 17 The next slide gives you a little bit of a
- 18 sneak preview snapshot of what we anticipate the
- 19 final document will look at and it covers two areas
- 20 that exchanges can look at. Firstly, in promoting
- 21 the scaling and integrity of carbon markets in
- 22 terms of exercising cross-cutting market influence.

- 1 And here we would be looking at action areas,
- 2 for example, policy and stakeholder dialogue,
- 3 capacity building and market education,
- 4 partnerships and visibility. These are all things
- 5 that exchanges are well positioned and well versed
- 6 in doing, but also leveraging the knowledge that
- 7 they already have in the ESG space into carbon
- 8 markets.
- 9 From an exchange specific perspective, how
- 10 they can contribute to developing a credible carbon
- 11 market offering, and here is where they would
- 12 engage with the integrity issues, what types of
- 13 market would be most appropriate for the business
- 14 model of the exchange, the jurisdiction that
- 15 they're based in, as well as the marketplace that
- 16 they operate in and the rules and technicalities
- 17 around what they establish to be a stable and
- 18 transparent market.
- 19 Moving into the final slide, the guidance
- 20 document really is just a starting point for a
- 21 conversation that will continue. It aims to be the
- 22 start of a consensus building process, and we will

- 1 continue to engage with our exchanges and other
- 2 stakeholders.
- 3 Many of you in the room are part of our
- 4 advisory group, and we really appreciated the input
- 5 into our work, and we look forward to continuing to
- 6 work with everybody as well as with the CFTC.
- 7 We will continue to do knowledge sharing,
- 8 establishing an exchange related carbon market
- 9 database, which is currently under development,
- 10 just to kind of give people a snapshot of what
- 11 we've seen, how exchanges are engaging with the
- 12 carbon markets.
- 13 And then finally, we're in talks with various
- 14 partners on delivering training to exchanges and
- 15 regulators and the stakeholders on carbon markets
- 16 particularly. So we look forward to learning more
- 17 about how the CFTC takes this process forward and
- 18 we appreciate the opportunity to continue engaging
- 19 with you. Thank you very much.
- 20 MR. BERKOVITZ: Thank you, Corli. We're going
- 21 to be moving in the interest of ensuring that we
- 22 get all the presentations in today in the allotted

- 1 time. We're going to be moving straight into the
- 2 presentations of the derivatives exchanges and I
- 3 would ask the participants to be mindful of the
- 4 time.
- 5 And if you can do it in three minutes, that
- 6 would be greatly appreciated. So our first speaker
- 7 is a gentleman that I've had the honor and pleasure
- 8 of working with over many years, Vincent McGonagle,
- 9 who's the director of the CFTC Division of Market
- 10 Oversight. Vince.
- 11 MR. MCGONAGLE: Great, thanks. So my brief
- 12 remarks today are going to be focused on product
- 13 development with respect to carbon and
- 14 environmental markets. So product development
- 15 analysis, CFTC doesn't happen without the product
- 16 review branch. John Forkkio is in the audience here
- 17 today.
- 18 Looking at these products in the product
- 19 review branch, Steve Benton, George Pullen, Sanam
- 20 Gulabandi and Samantha Lee, who just joined the
- 21 branch. Quick snapshot on product certified over an
- 22 18-month period, obviously not going to go through

- 1 everyone, but from January '22 to June of '23, the
- 2 Division saw approximately 1,300 products, self-
- 3 certified.
- 4 About a quarter of those products, I would
- 5 say, fall within an environmental risk or
- 6 environmental product category. Renewable fuels,
- 7 whether electricity with a component of, say, solar
- 8 or offset for wind, for example. And we had
- 9 approximately 60 carbon contracts that were
- 10 certified during the time period.
- 11 As recently as June, then, of '23, we had five
- 12 contracts, three carbon contracts for Washington
- 13 and two RGGI contracts. So a number of contracts
- 14 across all asset classes get self-certified.
- 15 There's an interest in attracting liquidity and we
- 16 appreciate and understand that.
- 17 Of these environmental contracts, we currently
- 18 have approximately 24 that have attracted
- 19 liquidity. What I mean by that is, they show open
- 20 interest in excess of 10,000 contracts currently.
- 21 And three of the contracts are within the top 100
- 22 of futures contracts traded. They have a

- 1 significant amount of open interest.
- 2 The contracts that, particularly here on
- 3 carbon, they are physical delivery contracts and
- 4 they have all been self-certified, if it's a
- 5 designated contract market. Certain FBOTs have
- 6 sought to list products and the process is similar
- 7 but not identical to self-certification. In terms
- 8 of review, product review perspective.
- 9 So an entity self-certifies, that means that
- 10 they've made the representation that the product
- 11 meets core principle obligations of the Commodity
- 12 Exchange Act and our regulations, not only at the
- 13 time they filed that listing, but during the
- 14 lifespan of the product.
- So they have that responsibility, they make
- 16 that representation, and the product review branch
- 17 will look behind and evaluate those products to
- 18 make sure that, frankly that we agree, you know,
- 19 within the division. And things that we're
- 20 interested in and we think about is look, these
- 21 products across all asset classes, the goal is to
- 22 inform the price discovery process.

- 1 We want to make sure that we have clear,
- 2 consistent, open, transparent terms that the market
- 3 has the ability to trade these products to inform
- 4 based on, you know, a variety of interests. And at
- 5 the same time, it's also important that there is an
- 6 understanding, of course, for competitive reasons.
- 7 Competitive being the DCM wants to make money,
- 8 right?
- 9 So that they want to list a product that
- 10 people actually want to use for hedging purposes.
- 11 And they're going to need and are representing a
- 12 familiarity with the cash market. So there's an
- 13 interaction that's expected.
- 14 You need to know how the cash market operates,
- 15 but you also need to make sure that activity that's
- 16 occurring on the futures market is not interfering
- 17 with the cash market operation and vice versa.
- 18 So some of the core principles that we think
- 19 about, contracts not readily susceptible to
- 20 manipulation, transparency requirements, opening
- 21 competitive platforms are position limits and
- 22 accountability, sort of how you calculate

- 1 deliverable supply.
- What are the credits that are actually
- 3 available on a regular basis? How might they be
- 4 delivered within the market? And, you know, we've
- 5 seen this, I would say more recently in connection
- 6 with the digital assets space because there was
- 7 growth with respect to spot digital asset platforms
- 8 at the time that the Commission was seeing interest
- 9 in listing futures products.
- 10 We're going to be very interested in
- 11 understanding, not only are the platforms, but the
- 12 products, how they're regulated, how they're
- 13 audited, how they're verified, if it's public
- 14 information, how that's being reported, whether
- 15 it's profit or not profit. I see the purple sheet.
- 16 My time is up.
- 17 MR. BERKOVITZ: Thank you, Vince. We'll turn
- 18 next to Mike Kierstead, the Head of Environmental
- 19 Products at the Intercontinental Exchange.
- MR. KIERSTEAD: Thank you.
- 21 MR. BERKOVITZ: Welcome.
- MR. KIERSTEAD: Thank you. Great to be here.

- 1 Thank you, Chairman and commissioners. I think I'd
- 2 start with a real quick story that I overheard my
- 3 son, who's seven, and his friends talking about
- 4 what their -- what their parents do for work. So my
- 5 mom's a lawyer, my dad's a fireman.
- 6 My son stands up and said my dad's a deal man.
- 7 He helps people pay for their pollution. I thought
- 8 wow, that's pretty cool, you know, relevant for the
- 9 exchange panel. On Sunday night before heading to
- 10 DC, I was telling them all I'm -- we're going to
- 11 talk about the carbon credit market or the
- 12 voluntary carbon market and my kids were asking me
- 13 about it.
- 14 And I said well, there's the ICVCM and the
- 15 TSVCM with CCPs and the SBTI. And there's CORSIA
- 16 and our futures are a AFOLU with CCB, and I looked
- 17 up and they're just whatever dad.
- 18 And then I was on the plane thinking, you
- 19 know, imagine being a buyer of these credits in
- 20 this market and having all this information and all
- 21 this, you know, lack of transparency and integrity
- 22 and difficulty in navigating these markets. So it's

- 1 very difficult for buyers of these credits to
- 2 understand.
- 3 You make the net zero pledge, you want to
- 4 commit to this, and then you enter a world, which -
- 5 which can be very difficult to navigate. So as an
- 6 exchange, we are -- we truly believe in the power
- 7 of government mandated markets, compliance markets.
- 8 There's precedent there. I know both Tom and Dan
- 9 alluded to that. There are stories there.
- 10 So if you think of the carbon tons-at-risk and
- 11 carbon pricing, most of the CO2 does not have a
- 12 price associated with it. You think of the EU UTS
- 13 or California, RGGI, or Washington. There's also
- 14 compliance markets in South Korea and in New
- 15 Zealand. But most of these CO2 emissions go
- 16 unpriced.
- 17 So it's very hard to get to net zero without
- 18 having a robust carbon price. And I believe that
- 19 having regulated markets will help differentiate
- 20 over the long-term for these -- these types of
- 21 markets.
- 22 So I recommend or comment to the CFTC to

- 1 follow the -- I -- excuse me, the IOSCO
- 2 recommendations, which are, we've been down this
- 3 road before. The EUETS had billions of allowances
- 4 of oversupply. The MSR reduced that. There were
- 5 security issues at the registry. That was fixed.
- 6 These markets can be fixed and can move forward.
- 7 There certainly is an opportunity here for
- 8 participants exchanges to move this forward with
- 9 regulation. Build the sandbox, play within it, and
- 10 there's definitely opportunity to get through some
- 11 of this murkiness. So I'll -- that's fine for me.
- 12 Thank you. Thank you very much.
- 13 MR. BERKOVITZ: Thank you, Mike. Peter. Peter
- 14 Keavey, Managing Director and Global Head, Energy
- 15 and Environmental Products, CME Group.
- 16 MR. KEAVEY: Thank you, Commissioner. Thanks
- 17 to the Chairman and all the Commissioners for
- 18 inviting me here today to speak on behalf of CME
- 19 Group. CME Group offers a suite of physically
- 20 delivered voluntary carbon Futures, which are
- 21 linked to the spot activity on CBLs over the
- 22 counter voluntary carbon platform.

- 1 CME launched the CBL Global Emissions Offset
- 2 futures and the CBL Nature Based Global Emissions
- 3 offset in 2021, with the CBL Core Global Emissions
- 4 Offset following in 2022. These products have
- 5 proved to be very useful to our customers and we
- 6 have seen strong interest in trading voluntary
- 7 carbon futures from firms around the world.
- 8 Between the GEO, the NGEO and the CGEO
- 9 products, over 377 million offsets have traded
- 10 since our first launch back in March of 2021. Over
- 11 that same period, around 16.3 million carbon offset
- 12 credits have gone to physical delivery.
- Just to share a few more statistics with you,
- 14 average daily volume for the CME's voluntary carbon
- 15 futures is about 600 contracts on a daily basis,
- 16 while the current open interest is about 26,500
- 17 contracts, that open interest extends out to
- 18 December of 2025. Hopefully, that gives you some
- 19 idea of the scale of this market.
- 20 Essentially, voluntary carbon futures are a
- 21 new product, just over two years old, so they are
- 22 still very small compared to CMEs core commodity

- 1 benchmarks. But as you heard, we are already seeing
- 2 very active trading, open interest continues to
- 3 build and extend out into time. And so, we are
- 4 optimistic about the future trajectory of these
- 5 important markets.
- One question we're frequently asked is, who is
- 7 trading CMEs voluntary carbon futures and why? Over
- 8 130 participants have traded our carbon offset
- 9 futures and activity is globally distributed with
- 10 customers split between the US, Europe and Asia.
- 11 The proportion of non-US business is much
- 12 higher in voluntary carbon than in many of CMEs
- 13 commodity contracts, confirming that these are
- 14 truly global markets. We see a diverse mix of
- 15 participants in our futures. Banks, trading,
- 16 houses, corporates are all active.
- 17 As we have discussed, voluntary carbon futures
- 18 are still relatively new, and they are also
- 19 strongly linked to the physical underlying market.
- 20 That means at this stage of market development, we
- 21 tend to see more hedging than speculative activity.
- 22 A typical market participant might be a bank,

- 1 who is acting on behalf of a project developer that
- 2 wants to lock in the price on a certain proportion
- 3 of its future offset certificates to cover
- 4 development costs.
- 5 Or you may see a corporate customer where the
- 6 firm's management has made a commitment to be net
- 7 zero by a certain date and where the corporate
- 8 treasury wants to lock in the price of some of the
- 9 offset certificates that the firm will need over
- 10 the next few years.
- In short, CMEs suite of Carbon Offset futures
- 12 offer price, transparency, liquidity and risk
- 13 intermediation to market participants needing a
- 14 mechanism to manage risk factors, constraining
- 15 investment and achieving scale in the economy of
- 16 decarbonization.
- 17 I'd like to turn now to the launch process for
- 18 voluntary carbon futures, and speak briefly about
- 19 how CME thinks about voluntary carbon as an asset
- 20 class. CME follows CFTC quidance to treat voluntary
- 21 carbon as a commodity product. And so, we follow
- 22 our standard procedures for launching any new

- 1 commodity futures product.
- 2 This includes following CFTC core principles
- 3 and the guidance associated with listing a futures
- 4 contract. CME has engaged and continues to engage
- 5 with DMO staff to discuss product specifications
- 6 and market developments, both on the futures and
- 7 physical side.
- 8 The process for launching voluntary carbon
- 9 futures has been relatively straightforward to date
- 10 and has generally followed the path of typical
- 11 commodities products launch.
- 12 Perhaps the only additional complexity has
- 13 been the requirement for market participants that
- 14 want to make or take physical delivery to sign up
- 15 with the spot market CBL, which serves as a
- 16 facilitator of CME deliveries, and also with those
- 17 voluntary carbon registries that are approved
- 18 delivery venues.
- 19 That is, though, not too dissimilar from the
- 20 requirements in other commodity futures, where we
- 21 would expect that a participant wanting to make or
- 22 take delivery would have an arrangement in place

1 with at a metals warehouse or oil storage facility

- 2 or so on.
- 3 Another question we often receive relates to
- 4 CMEs role in establishing the quality of the
- 5 voluntary carbon offset contracts that may be
- 6 provided or received during the physical delivery
- 7 process. CME makes use of the product categories
- 8 that have been designed by the CBL spot platform.
- 9 These broadly break down into CORSIA-aligned,
- 10 nature-based solutions, and aligned with the Core
- 11 Carbon Principles. In this sense, CBL effectively
- 12 acts as an index provider and supplies the market
- 13 expertise in physical voluntary carbon.
- 14 This is very similar to the way that CME looks
- 15 to S&P to designate which 500 stocks should feature
- in the S&P 500 or the way that the exchange looks
- 17 to price reporting agencies to designate which
- 18 physical deals are included in their commodity
- 19 indices.
- 20 All of the voluntary carbon certificates that
- 21 are deliverable into the various CBL indices, and
- 22 therefore, into CME futures that have been issued

- 1 by a voluntary carbon registry, such as Verra or
- 2 ACR. These registries provide the scientific
- 3 expertise that underpins the market.
- 4 Just as CME does not itself test for protein
- 5 content in wheat or vanadium content in crude oil,
- 6 the exchange makes use of third parties, in this
- 7 case the registries, to carry out appropriate
- 8 checks and testing.
- 9 If market participants were to express
- 10 concerns about a particular methodology or
- 11 registry, CME and CBL would clearly be motivated to
- 12 take those views into account.
- 13 To date, feedback has been broadly positive
- 14 about the market integrity of certificates
- 15 delivered via CME futures, and the growth in
- 16 trading and in open interest that I highlighted in
- 17 the beginning of my remarks are clearly very
- 18 positive signals. Thank you.
- MR. BERKOVITZ: Thank you, Peter. Our final
- 20 speaker is Caroline Gentry, director, Environmental
- 21 Markets, Nodal Exchange. Caroline.
- MS. GENTRY: Thank you. And I'd like to echo

- 1 the words of the other speakers in thanking the
- 2 CFTC, the Chairman for your leadership, the other
- 3 Commissioners, and David and Abigail. Thank you for
- 4 inviting us. So can I have the next slide, please?
- 5 So Nodal Exchange is wholly owned by EEX
- 6 Group, the leading energy exchange in Europe. Open
- 7 interest is continuing to grow in the environmental
- 8 products, and we estimate we have around 20 percent
- 9 of the environmental futures market now. Nodal has
- 10 the broadest set of environmental contracts
- 11 globally. Next slide, please.
- 12 So we began listing environmental products in
- 13 2018. And you can see the full list of products we
- 14 offer here. The voluntary carbon products are there
- 15 on the bottom left, which were launched last year
- 16 in 2022. The next slide, please.
- 17 There's quite a high barrier to entry in the
- 18 energy exchange space, and one of the reasons we
- 19 were able to break that down was by being
- 20 responsive to customer needs, finding that sweet
- 21 spot between the granularity the traders were
- 22 asking for, while still maintaining liquidity.

- 1 Another factor in the success of winning
- 2 market share was the collaboration with Incubex, as
- 3 Dan outlined earlier from 2017 with the EEX group.
- 4 Incubex was founded by the real pioneers of the
- 5 voluntary carbon markets, and they really
- 6 understand the needs of traders and brought new
- 7 products to the market quickly.
- 8 So it's a question of having the right
- 9 contracts at the right time, which explains Nodal's
- 10 success with other contracts. For example, the
- 11 Texas Renewable Energy Certificate Market, together
- 12 with flexibility and innovation such as portfolio
- 13 margining. So next slide, please.
- 14 As other speakers have shown, this is quite a
- 15 complex kind of acronym soup. You can't read this
- 16 slide. There's just a lot going on in the voluntary
- 17 carbon markets. There are varying degrees of
- 18 quality, but as other speakers have mentioned, you
- 19 know, that doesn't mean we should throw the baby
- 20 out with the bathwater.
- 21 This ongoing standardization with the
- 22 excellent work that's being done by the ICVMI and

- 1 other -- and other initiatives is the registries,
- 2 the rating agencies, this is helping to bring this
- 3 picture into focus. And while it's true that a lot
- 4 of buyers still want a bespoke service, you know,
- 5 they ask for specific projects so they can tell
- 6 their own stories.
- 7 But we think over time confidence in more
- 8 standardized products will grow. So I think if you
- 9 believe in the power of the markets to solve the
- 10 climate challenge, you should see the voluntary
- 11 carbon market as a kind of petri dish or petri
- 12 dish, you would say, where, you know, anything and
- 13 everything is allowed to grow, at first.
- 14 And all the participants, whether buyers or
- 15 sellers, the registries or standard setting bodies,
- 16 are held accountable and make improvements
- 17 themselves. So we welcome the Commission's quidance
- 18 in ensuring a level playing field and keeping
- 19 vigilant.
- 20 We appreciate the work of the task force and
- 21 the new announcement on the whistleblowers, but
- 22 it's very important to allow innovation to develop.

- 1 So as an exchange, we're here to provide clearing,
- 2 risk management services. We can move to the next
- 3 slide, please. We're ready to adapt to however the
- 4 underlying market develops.
- 5 And we believe in standardization as much as
- 6 possible, differentiation as much as needed. And
- 7 you can see there how we've divided up the things.
- 8 You can go into the next slide, please.
- 9 That's our full product suite for the
- 10 voluntary carbon market. So I hope I've kept to
- 11 time. Thank you very much for the invitation to
- 12 take part. I'm happy to take any questions.
- 13 MR. BERKOVITZ: Thank you. I believe we do
- 14 have time for discussion. Yeah. Is there any? Dean.
- MR. ERVIN: Thank you. And thanks for all the
- 16 presentations in both the spot and derivatives
- 17 Exchange. I grew up in the industry derivatives
- 18 world, which is sort of the opposite end of the
- 19 spectrum. Huge scale, tiny bid-asks, great
- 20 visibility.
- 21 And as I've started to look into over the last
- 22 few years, how contracts both OTC and futures have

- 1 been developing in carbon offsets, it's a tough
- 2 forest to navigate. So be curious for whether it's
- 3 spot or derivatives people.
- 4 If you were a new corporate or a new person
- 5 looking to get into this market, what are the best
- 6 tools to get visibility on price and quality? What
- 7 would you recommend as the best entry points that
- 8 would give you some visibility?
- 9 Obviously, there's some stuff on the futures
- 10 you can see publicly, but if you're trying to get a
- 11 sense of the OTC world, are there places that you
- 12 would go in either of your worlds or outside your
- 13 worlds that you think would be the most helpful for
- 14 corporates or individuals or oversight groups
- 15 trying to get a sense of how this market works?
- MR. KEAVEY: I'll start with that one. So good
- 17 question. You know, I think we heard from Verra
- 18 earlier that there is an enormous amount of
- 19 information about specific projects out there,
- 20 almost too much information.
- 21 But if you're talking specifically about
- 22 pricing, then there are a variety of spot platforms

- 1 that offer project by project vintage by vintage
- 2 pricing that can inform price discovery. Now, let's
- 3 just, we also heard previously that this market is
- 4 quite fragmented. That's true. It is fragmented in
- 5 a project by project pricing basis.
- 6 However, there are like projects that may have
- 7 similar attributes and then differentiation
- 8 attributes. So like any other commodity market,
- 9 there are benchmarks and there are basis. And then
- 10 navigating that today is a little bit challenging
- 11 due to the fragmentation and lighter liquidity in a
- 12 variety of different projects.
- 13 However, initiatives like CORSIA, like the
- 14 Integrity Council, have allowed some
- 15 standardization to take place. That is the basis of
- 16 the futures contract. That is the basis of the
- 17 scaling of that market, where there are a broad
- 18 acceptance within a category of credits that meet
- 19 certain basic criteria.
- 20 And that's the building block. Now, additional
- 21 attributes and additional attractive features may
- 22 add to the value of those or detract from the

- 1 benchmark as a differential in price, but there is
- 2 an enormous amount of data that is available on the
- 3 spot platforms to look at both standardized
- 4 products and individual project trading.
- 5 So it's not a question of if it's out there,
- 6 the question is where do you access it? And I think
- 7 you have those folks in this room today.
- 8 MR. KARAS: Yeah, I mean, the spot changes
- 9 I've mentioned, you know, we all list project
- 10 specific credits as well. So on a daily basis, we
- 11 have two to three million tons of project specific
- 12 credits that have all those attributes.
- But before you get to that point of onboarding
- 14 and opening your registry accounts and transacting
- on any of the spot changes, Ecosystem Marketplace
- 16 is a great tool that we use and kind of one of the
- 17 first introduction points that we send to new
- 18 participants in the market.
- 19 Obviously, as -- whether you're a trader or an
- 20 exchange, what's unique about this market is we
- 21 have to spend a lot of time educating each customer
- 22 that comes through. In addition, you have some

- 1 unique price reporting agencies like the typical,
- 2 the Platts, the Hargis, the Opus that put out
- 3 assessments.
- 4 Also, publications like Carbon Pulse and
- 5 Quantum that put out daily assessments. So we've --
- 6 this world looks much different than it did two or
- 7 three years ago. We start pick up. There's a lot of
- 8 analysis around now, in addition to the freely
- 9 available registry data.
- 10 MR. SCARBROUGH: Yeah, I guess the only thing
- 11 I'd add to that, I think, you know, this market
- 12 also has the same challenges that you see in like,
- 13 you know, the gas-basis markets or, you know,
- 14 trying to understand the power Nodal Markets, as an
- 15 example, you know, pointing to exchanges, pointing
- 16 to PRAs.
- I think, you know, you're starting to see more
- 18 in the way of market data providers as well.
- 19 Refinitiv, Bloomberg. I think we had the
- 20 presentation from Bloomberg earlier today, but the
- 21 major market data distributors who are picking up
- 22 market data from many exchanges, many marketplaces,

- 1 many brokerage companies aggregating that data in a
- 2 transparent way.
- 3 You know, just as Russell alluded to, I think
- 4 in the last few years that has come a long way.
- 5 Just to finish up Wilson. So as Peter mentioned the
- 6 registries are a great source for data.
- 7 ICE has a free service called ICE CRED, where
- 8 you can type in a project number and that'll give
- 9 you the amount of tons that have been retired,
- 10 available, what bucket it falls into, reduction
- 11 removal, tech or nature based. Indicative pricing
- 12 will appear eventually, but that's a free service
- 13 for anyone that would be interested.
- 14 And it aggregates all registries.
- MR. BERKOVITZ: It strikes me as one thing
- 16 that we do not have in this market yet, or maybe we
- 17 do, that may play into this is a number like, I'll
- 18 just use the oil market. You have WTI and you have
- 19 Brent oil, for example, in the Futures, and those
- 20 are benchmarks, but very few people actually still
- 21 use those grades.
- I mean, those are benchmark grades, but people

- 1 have very different needs -- you know -- in Mexico
- 2 and all sorts of other grades of oil trade
- 3 differentials to the benchmarks, but there's a
- 4 whole pricing history.
- 5 They know typically what the basis is from the
- 6 benchmarks and to the extent, I mean is this --
- 7 part of this market getting that pricing history on
- 8 these projects.
- 9 This is a pretty new endeavor with these new
- 10 standards and new methodologies and so, what will
- 11 it take to get -- you're not going to find like the
- 12 price of carbon that's good for everybody I
- 13 presume. I presume you're going to have basis
- 14 differentials to this as we were talking about.
- 15 Is it possibly getting a history -- a pricing
- 16 history so people can reliably price off -- price
- 17 off the benchmark, or what will it take to sort of
- 18 get that liquidity developed and get the buy in?
- MR. KIERSTEAD: Yeah, it's interesting. It's a
- 20 great question, actually. So WTI and Brent Crude
- 21 are -- are physical locations, right? These are
- 22 electronic certificates in registries. It's very

- 1 difficult to make a benchmark. We talk about bench
- 2 lines, what's above and below as far as a credit,
- 3 as far as integrity goes.
- We're not -- we're not there. We're close.
- 5 We're working towards it. That's, I mean, that's
- 6 the question, but absolutely, that's where these
- 7 products could trade at discounts or premiums as
- 8 spreads to that benchmark. But it's a work in
- 9 progress.
- 10 MR. KARAS: Yeah, I would just say when we
- 11 launched the GEO and the N-GEO benchmarks, what we
- 12 saw, if you looked at a scattered plot, it's a
- 13 graph we show a lot, where you had the benchmark
- 14 pricing and you saw individual prices that
- 15 qualified pricing above and below, which didn't
- 16 really make a lot of sense when you have a basket
- 17 and it's cheaper -- cheapest to deliver contract.
- 18 Over time it's evolved where now you have the
- 19 benchmark setting the floor, similar to a
- 20 traditional commodity market, now we're starting to
- 21 see all those dots of the different project
- 22 specific credits pricing at a premium, but to

- 1 Mike's point, you know, we're still -- there's
- 2 still too many different pockets.
- 3 We're still trying to understand, not
- 4 necessarily just what the benchmarks are, but how
- 5 do you draw circles around what those basis markets
- 6 should be? What are the right vintage years? What
- 7 are the right co-benefits? How many CCBs? What
- 8 regions?
- 9 So again, things like the ICVCM will help to
- 10 draw circles around some of those things and
- 11 develop those basis markets. But it's still --
- 12 we're still -- it's a work in progress for sure.
- 13 MR. KEAVY: But let's be clear that building,
- 14 the main benchmarks are a vital part of this
- 15 because without liquidity, without the ability to
- 16 transfer risk, there is no basis pricing and then
- 17 you're back to guessing where markets are relative
- 18 to one another. So the establishment of a liquid
- 19 benchmark is vital to the growth.
- 20 MR. SCARBROUGH: Yeah, I think one of the
- 21 unique challenges in this market really is that
- 22 you've had so many different intermediaries

- 1 involved in transactions from the project
- 2 developer, who's going to be investing and
- 3 conducting, you know, undertaking the project and
- 4 the investment necessary to do so.
- 5 And then ultimately, the corporate or the end
- 6 user who's going to be retiring that offset and the
- 7 number of transactions in between that in terms of
- 8 intermediaries, different types of parties, because
- 9 frankly, I think, you know, capital constraint is
- 10 an understatement for the Voluntary carbon market
- 11 over the years.
- 12 Where, you know, trying to get those
- 13 investment dollars ultimately back to the project
- 14 developers is centrally one of the key issues that
- 15 you have. So you had, you know, many different
- 16 intermediaries stepping in to try to provide that
- 17 financing and get the projects off the ground with
- 18 the developer.
- But, you know, having a price associated with
- 20 the project is also a challenge when you have
- 21 multiple intermediaries involved in every
- 22 transaction. So you know, the more centralized, the

- 1 more that, you know, comes onto a central
- 2 marketplace or exchange that will improve that
- 3 price quality.
- 4 MR. BEHNAM: Dan, I don't think you can see
- 5 this, but Julien from Climate X, Climate Impact X
- 6 has his hand up. So maybe we can give him the last
- 7 comment.
- 8 MR. HALL: Thanks, everyone. Yeah, the
- 9 importance of spot price benchmarks is really a
- 10 subject close to my heart.
- 11 And I think, you know, when we look at the
- 12 VCM, we see it very much as a similar to a sort of
- 13 early stage commodity market that hasn't yet, like
- 14 you were saying, Mr. Berkovitz hasn't yet really
- 15 coalesced around a central benchmark.
- 16 And I think what some of the reasons is that
- 17 the -- what consists of robust benchmark hasn't yet
- 18 really emerged in the VCM. So what is a robust
- 19 benchmark? It has to be, I think, first of all,
- 20 representative of the underlying and there's been
- 21 some issues with some of the early attempts on that
- 22 front.

- 1 The second key point is it needs to be
- 2 underpinned by robust physical spot bids, offers,
- 3 and transactions. And I think a lot of the earlier
- 4 terms of commoditization, standardization focused
- 5 on futures and developing the futures, but not so
- 6 much around developing a robust physical spot price
- 7 benchmark.
- 8 And that's exactly what we're looking to do at
- 9 CIX, actually. I think it's going to be critical
- 10 because it'll help market then. It's not going to
- 11 be a panacea for the market and help address all of
- 12 the issues around integrity on the supply side and
- 13 demand side that we've talked about.
- 14 But what it should do is help provide a fair
- 15 market price, facilitate long-term contracts,
- 16 reduce information asymmetry, make it easier to
- 17 have fairer benefit sharing agreements, including
- 18 with stakeholders, make it a lot easier for project
- 19 developers to raise financing, help adequate market
- 20 to market both internally and transfer agreements.
- 21 And eventually after the settlement mechanism,
- 22 potentially even for cash settled Futures, which is

- 1 a model that hasn't been tried yet in the VCM, but
- 2 which we think, given the inherent heterogeneous
- 3 nature of this market, could be a bit of an unlock
- 4 in helping scale the market.
- 5 MR. BERKOVITZ: I want to thank our spot
- 6 Market and Exchange panelists for an excellent --
- 7 excellent discussions and appreciate your
- 8 attendance here today and participation. Thank you.
- 9 It's been helpful.
- 10 MR. BEHNAM: Dan, thank you for being here
- 11 with us and leading the discussion as you pointed
- 12 out something you've been discussing for a couple
- 13 of years, so a natural issue area for you to lead
- 14 and appreciate your continued support. So with
- 15 that, we're going to head to our final panel.
- We made it -- we have a little bit of time.
- 17 We're going to get you out soon, I promise. But
- 18 this is a really important panel and we appreciate
- 19 this group staying with us here today and
- 20 contributing these last few remarks and we're lucky
- 21 to have Sasha Mackler, who spoke earlier, but is
- 22 the Executive Director of the Energy Program at the

- 1 Bipartisan Policy Center. So Sasha, I will turn it
- 2 over to you.
- 3 MR. MACKLER: Thanks very much. It's a
- 4 pleasure and a privilege to be here today for this
- 5 important conversation on a really, I think, as we
- 6 all appreciate after all the discussion we've had
- 7 today, you know, a critical part of the solution
- 8 that we need to bring forward as it relates to the
- 9 energy transition.
- 10 And, you know, really there's a lot of
- 11 information that we need to digest here today and
- 12 I'll sort of point out two big challenges that we
- 13 face. One, is making sense of all this activity and
- 14 creating a coherent market that's well regulated
- 15 and that functions with integrity.
- And two, in a more of a discrete level for our
- 17 panel, we only have 45 minutes to get through what
- 18 I think is a really important topic. And so, I hope
- 19 we can all sort of be concise in our comments. The
- 20 Chairman has said he wants to finish at 5:00 and
- 21 let's really aspire to hit that mark.
- 22 And so, in the spirit of that, I'll just offer

- 1 some really short sort of framing comments and then
- 2 we'll turn to our panelists to bring their
- 3 expertise to bear and, you know, by way of framing,
- 4 the only thing that I'd like to sort of say to tee
- 5 this up is that it's clear that we need a voluntary
- 6 carbon market that's large, transparent,
- 7 coordinated, coherent and environmentally robust.
- And today's market, while there's been a lot
- 9 of activity and maturation, you know, it's really
- 10 far from that. It's complex and it's fragmented and
- 11 there's a lot more work to do.
- 12 We have limited pricing data, which makes it
- 13 challenging for buyers to know whether they're
- 14 paying a fair price, and for suppliers to manage
- 15 the risks they take by financing and working on
- 16 carbon reduction projects without knowing how much
- 17 buyers will ultimately pay for those credits.
- 18 You know, low liquidity, scarce financing,
- 19 inadequate risk management services and limited
- 20 data availability really are the challenges we need
- 21 to kind of work out as we grow this market so that
- 22 it can meet the needs and the opportunities that we

- 1 face, as we heard earlier, to hit our goals in
- 2 2050.
- 3 So today's market actor panelists will help us
- 4 shed light on how to increase participation from a
- 5 wide range of market actors and move towards scale
- 6 and importantly standardization in the voluntary
- 7 carbon markets so we can reduce barriers to entry
- 8 and increase the range of participants that can
- 9 actually take part in these activities.
- 10 So with that framing, I would just like to
- 11 turn it over to our -- to our panelists, who I will
- 12 introduce as they jump into the conversation. And
- 13 we'll start first with Dr. Lorenzo Bernasconi,
- 14 who's the Head of Climate and Environmental
- 15 Solutions at Lombard Odier Asset Management. Over
- 16 to you.
- 17 DR. BERNASCONI: Thank you, Sasha. And special
- 18 thanks to Chairman Behnam, federal Commissioners
- 19 and the CFCT team. I much appreciate the
- 20 opportunity to be here today. As mentioned, I'm
- 21 Lorenzo Bernasconi. I'm head of Climate and
- 22 Environmental Solutions at Lombard Odier Investment

- 1 Managers.
- 2 Lombard Odier is a Swiss banking group,
- 3 founded in 1796 with a core investment conviction
- 4 on the net zero transition. In my role, I help run
- 5 a global carbon market strategy, investing both in
- 6 the compliance and the voluntary market. I should,
- 7 though, just clarify up front that the views that I
- 8 will express today are my own, not necessarily
- 9 those of my firm.
- 10 My perspective is, nonetheless, can you guys
- 11 hear me okay? Yeah. Informed by my role as an
- 12 investor seeking to mobilize institutional capital
- 13 at scale into the climate and nature positive
- 14 transition. And it's also informed by my kind of
- 15 longer-standing role within the voluntary carbon
- 16 market, looking to scale this market and bring
- 17 greater integrity.
- 18 Having launched initiatives such as the LEAF
- 19 Coalition and the R3 standards that were mentioned
- 20 earlier this morning. From where I sit at the
- 21 intersection of the fight against climate change
- 22 and financial markets, I think there are two clear

- 1 facts. The first, and it's worth reiterating, is
- 2 that carbon credits are crucial.
- 3 Indeed, they're vital in our fight against
- 4 climate change without a robust carbon credit
- 5 market achieving net zero within a timeframe that
- 6 avoids catastrophic climate change is going to be
- 7 impossible. Second, to tackle the climate crisis
- 8 effectively, an efficient derivatives market linked
- 9 to carbon credits is fundamental.
- 10 Derivatives provide a way for hedgers to
- 11 manage risks and allow investors to efficiently
- 12 gain exposure to the underlying commodity. And a
- 13 derivatives market, of course, lends important
- 14 legitimacy and credibility to this nascent market.
- We've seen today and in past forums rigorous,
- 16 you know, debates around the integrity of the
- 17 underlying carbon assets, and rightly so. Trust in
- 18 the underlying commodities is a first order
- 19 threshold issue. However, in addition to this, lies
- 20 another shared challenge that I think is core to
- 21 the CFTCs oversight and enforcement
- 22 responsibilities.

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1 And this is linked to ensuring that derivative
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- 2 contracts themselves are fit for purpose and are
- 3 properly and transparently managed by derivative
- 4 exchanges. In my view, this translates to
- 5 guaranteeing three key aspects related to carbon
- 6 credit derivative contracts and related exchanges.
- 7 First, derivative contracts must not just
- 8 exist, but they must serve as catalysts for market
- 9 quality improvements. We need contracts linked to
- 10 the best top-tier standards that are in line with
- 11 Paris Agreement best practices. This alignment is
- 12 vital to provide the right price signals and to de
- 13 risk investments into high quality projects. This
- 14 is currently missing.
- Today, for example, the low single digit
- 16 trading prices of current carbon credit futures,
- 17 they don't reflect the current or future price of
- 18 highest quality carbon credits. In my view, this is
- 19 largely due to the contract specs not reflecting
- 20 the highest standards. Second and relatedly,
- 21 derivative contracts, must evolve in line with
- 22 evolutions in quality standards.

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1 This is critical for the integrity of the
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- 2 market, but also to allow investors to take
- 3 convictions on future market developments and to
- 4 avoid market participants being stuck holding
- 5 stranded assets in the form of delivered carbon
- 6 credits that correspond to outdated standards.
- 7 For example, as we heard today, earlier this
- 8 year, CORSIA announced plans to tighten its
- 9 standards starting in 2024 to align with the Paris
- 10 Agreement goals and for its next phase. However,
- 11 the CME decided not to reflect this change for its
- 12 global emissions offset or GEO contract for CORSIA
- 13 eligible credits.
- 14 Instead, the GEO futures contract was limited
- 15 to the more lenient pilot phase requirements even
- 16 beyond 2024. So practically what this means is, if
- 17 say, someone buys a 2025 GEO futures contract, the
- 18 carbon credit that would be delivered in 2025 won't
- 19 meet CORSIA eligibility at the time of delivery.
- Needless to say, this is a source of potential
- 21 confusion among market participants, and I believe
- 22 a sorely missed opportunity for the market to

- 1 ensure quality and impact. And lastly, transparency
- 2 and enforcement of contract specifications has to
- 3 be non-negotiable.
- 4 Contract specifications must be clear with
- 5 investors having full confidence that actual
- 6 deliverables match what's written on the label and
- 7 enforcement must prevent any arbitrary changes to
- 8 contract deliverables.
- 9 These foundations will empower market
- 10 participants to make use of derivative markets for
- 11 risk management and for price discovery as they
- 12 were intended to do, and we believe will unlock
- 13 significant investment in our fight against climate
- 14 change.
- With that, I urge the CFTC to be proactive in
- 16 their oversight and enforcement of derivative
- 17 contracts and derivative exchanges to deliver on
- 18 this promise. Many thanks.
- 19 MR. MACKLER: Thank you. And we'll next move
- 20 on to Tom Colebatch, the Managing Director of
- 21 Commodity Markets and Finance at Macquarie.
- MR. COLEBATCH: Thank you to the chairman and

- 1 commissioners for convening today and I appreciate
- 2 the opportunity to contribute to this important
- 3 conversation. Macquarie is a global financial
- 4 services group, which operates in 34 markets
- 5 worldwide and we're a leading market participant in
- 6 the energy transition across our investing,
- 7 financing and trading activities.
- 8 Macquarie participates in the voluntary carbon
- 9 market, both as a buyer of carbon credits for our
- 10 own sustainability goals and also throughout
- 11 commodities and global markets group, which has
- 12 been active in carbon markets since 2005 and
- 13 established a VCM focus global carbon team in 2021.
- 14 On the supply side, we work to structure and
- 15 bring capital to the carbon market across a range
- 16 of project types such as nature-based solutions,
- 17 household devices and carbon capture utilization
- 18 and sequestration.
- 19 And on the demand side, we work with our
- 20 clients to provide sourcing, risk management, and
- 21 financing solutions for carbon credits as part of
- 22 their wider sustainability programs. And we often

- 1 do this in combination with our pre-existing
- 2 business, which supports them in managing their
- 3 requirements in relation to compliance programs
- 4 like the EU ETS.
- 5 Macquarie's view on the role of carbon credits
- 6 is twofold. Firstly, that they're an important part
- 7 of the journey to net zero by 2050. Secondly, that
- 8 they are not the only solution in and of
- 9 themselves, but they are a practical low-cost
- 10 enabler and they do come with important
- 11 developmental opportunities for the global south.
- 12 Some key points for today, in our view the VCM
- 13 is at an inflection point. We believe clients are
- 14 looking to engage in the market, but they're
- 15 hesitant because of a lack of clarity on endorsed
- 16 minimum standards for quality of carbon offsets, as
- 17 well as claims made in relation to the use of
- 18 carbon credits.
- 19 An engagement from the CFTC, as well as other
- 20 agencies is important for the market to reach its
- 21 potential. The overall market dynamic, we believe,
- 22 has slowed in the last year. We've seen price

- 1 volatility and a general downward trend in prices.
- We've seen negative press headlines around the
- 3 quality of some types of carbon credits, as well as
- 4 corporate claims made in relation to those carbon
- 5 credits. We've seen key industry sectors pivoting
- 6 away from the voluntary carbon use of carbon
- 7 offsets, in particular the aviation sector. And
- 8 broadly, we've seen that retirements of carbon
- 9 credits are tracking flat. They're not growing.
- 10 So in more recent times, we've also seen
- 11 increased sovereign engagement from the market,
- 12 particularly countries that see carbon credits as
- 13 an export opportunity.
- 14 And we've seen growing expectations on the use
- 15 of Article 6, and integration between what is
- 16 currently private side activity in the VCM, with
- 17 potential future public side activity under the
- 18 Paris Agreement, although importantly this is yet
- 19 to play out. But the overall ecosystem appears to
- 20 be less vibrant than it was a year ago.
- 21 A few observations on why we believe the
- 22 market is where it is, particularly in relation to

1 the demand side, which I think is really important

- 2 here.
- From our discussions with clients, corporates
- 4 have gone through a process over the last several
- 5 years where they've measured their emissions, they
- 6 reported on those emissions and they've established
- 7 medium and long-term targets in respect of those
- 8 emissions. They're now at the implementation phase
- 9 and they're struggling to execute.
- 10 A lack of endorsed guidelines and standards is
- 11 a significant factor for why corporates are not
- 12 participating fully in the market at present. We do
- 13 recognize that there are a number of industry-led
- 14 initiatives working to address core questions.
- 15 For instance, the ICVCMs proposed Core Carbon
- 16 Principles framework to address what is a high-
- 17 quality carbon credit and the VCMIs claims code of
- 18 practice to address what claims can be made in
- 19 relation to carbon credits. But in isolation, these
- 20 are ultimately industry led guidelines.
- 21 Specifically looking at the US, agreeing on
- 22 federally endorsed minimum standards or guidelines

- 1 on the reporting of emissions, specifications of
- 2 qualifying carbon credits that can be used to
- 3 reduce net emissions and language on how the use of
- 4 those carbon credits is framed would be helpful in
- 5 supporting the market to reach its potential.
- 6 For instance, in Australia, the Australian
- 7 government's climate active program established a
- 8 minimum standards framework for the use of carbon
- 9 credits by corporates.
- 10 And while the specific minimum requirements of
- 11 the framework will and should be continually
- 12 reviewed as the market evolves, as a feature of
- 13 market design in and of itself, it appears to have
- 14 supported engagement in the market from corporates
- 15 that may not have otherwise occurred.
- So in summary, at this inflection point for
- 17 the market, it appears there is a window for
- 18 engagement from agencies such as the CFTC to
- 19 support the growth of the market and activity from
- 20 a wider range of participants than we see
- 21 currently. Appreciate the time.
- MR. MACKLER: Thanks, Tom. And I want to thank

- 1 the first two speakers for their conciseness and
- 2 now we're going to turn to John Battaglia, who is
- 3 the Managing Director and Global Head of Carbon
- 4 Markets at BGC Environmental Brokerage Services,
- 5 who will be with us virtually.
- 6 MR. BATTAGLIA: Thank you very much. Can you
- 7 hear me okay in the room?
- 8 MR. MACKLER: Yes, we can.
- 9 MR. BATTAGLIA: Okay, great. And there were
- 10 some slides. Are we going to be able to access
- 11 those?
- 12 Thank you very much. First off, thank you very
- 13 much. My name is John. I run the carbon trading
- 14 business at BGC Partners. Now, as of July 1st, BGC
- 15 Group, we just renamed ourselves. A special thanks
- 16 for the invitation to come today. Apologies for not
- 17 being able to make it in person.
- 18 My legal and compliance did ask that any
- 19 opinions expressed today are my own and may not
- 20 reflect those of BGC. So getting that out of the
- 21 way, I want to talk a little bit today about who we
- 22 are, our role in the market and then a few

- 1 observations on the VCM. I understand that, you
- 2 know, we have very limited time here.
- 3 So I'm going to keep my comments brief,
- 4 because I know that there are a number of other,
- 5 you know, participants that are coming after me.
- 6 Next slide, please. So BGC Group, we're a leading
- 7 financial technology company in global brokerage.
- 8 We service the wholesale financial and commodity
- 9 markets.
- 10 We provide voice-assisted trade execution and
- 11 also electronic trade execution to a variety of
- 12 different markets. BGC was spun off in 2004 from
- 13 Cantor Fitzgerald merged with BGC to create BGC
- 14 Partners. We're a global company. We're
- 15 headquartered where I am right now at 55 Water
- 16 Street down near Wall Street.
- 17 And we also have a significant presence in
- 18 Canary Wharf in London as well, but operate in all
- 19 global markets across all asset classes, fixed
- 20 income, equities, commodities and a variety of
- 21 derivative markets as well. Next slide.
- 22 As I mentioned, we're global. We can go to the

- 1 next slide, please.
- 2 The environmental business, Environmental
- 3 Brokerage Services is a subsidiary of BGC Group. It
- 4 was effectively established in 2011, when BGC
- 5 Partners at the time had acquired Cantor's CO2
- 6 business -- Cantor Fitzgerald's CO2.
- 7 That was in 2011. That group has been quite
- 8 active in the environmental markets going back to
- 9 the 1990s, really under the acid rain program,
- 10 trading in NOx, HC, and PM10, and a variety of
- 11 criteria pollutants. Also, quite active in the CDM,
- 12 the clean development markets, you know, in London.
- The group as it exists today, I run the carbon
- 14 side. My colleague, Nicole runs the renewable
- 15 energy side. And we're active across a variety of
- 16 carbon markets. I've personally been involved in
- 17 carbon markets in North America since 2008. So
- 18 we're active in the EU UTS, trading EUA
- 19 certificates, the United Kingdom, trading UK
- 20 certificates.
- 21 I was involved in a lot of the first listed in
- 22 OTC physical trades in California carbon allowances

- 1 and California carbon offsets. RGGI, Alberta has a
- 2 provincial market.
- 3 We brokered the first listed WCA through Nodal
- 4 recently in the last couple of months, active in
- 5 the CCFS, which is the Canadian clean fuel
- 6 regulation, variety of credit markets in the
- 7 wholesale fuel markets in the regulatory space as
- 8 well; and then where other markets are active
- 9 include, of course, global voluntary carbon markets
- 10 and global credit markets.
- 11 Next slide, please. BGC was, as I mentioned,
- 12 spun off from Cantor Fitzgerald, so we do have a
- 13 charity day. Cantor had lost 658 employees on 9/11,
- 14 so every 9/11, we like to raise money for charity.
- 15 All proceeds globally go to charity. So I'd like to
- 16 highlight that. Next slide.
- 17 Our role in the market is really a facilitator
- 18 of transactions and liquidity. We're an OTC broker.
- 19 We are regulated, you know, in that we are
- 20 interacting with regulated products that are
- 21 currently listed on exchanges. So we would be an
- 22 executing broker in that respect.

- 1 As I mentioned, we sit in the middle of a
- 2 variety of different market participants. So you
- 3 know, in markets where there are not listed trades
- 4 on the screen, we are facilitating OTC and then
- 5 reporting prices and activity and liquidity and
- 6 market conditions to our customer on a daily basis,
- 7 on an ongoing basis. You know, we deal directly
- 8 with end users. We deal with banks.
- 9 We deal with product development companies,
- 10 trading firms, funds, in some cases, direct
- 11 institutional capital, looking for exposure to
- 12 environmental commodity markets, and we do this in
- 13 a variety of ways. It could be once we have trades,
- 14 we can give them up to the exchange as an executing
- 15 broker.
- 16 We could be voice-matching counterparts and
- 17 bringing them together and introducing them as an
- 18 introducing broker and in other ways we can be
- 19 bringing them together effectively clearing in the
- 20 VCM market, in particular.
- 21 We don't operate that business model in the
- 22 compliance markets, but in the voluntary carbon

- 1 markets we can bring parties together and
- 2 facilitate matching and clearing funds and credits
- 3 in some cases, particularly in Verra, Gold
- 4 Standard, ACR and CAR, as far as registries are
- 5 concerned. Next slide, please.
- 6 Observations, I think we're at an inflection
- 7 point as Tom had mentioned for the voluntary carbon
- 8 markets. It seems, you know, to me that our
- 9 observations have been that there's a lot of
- 10 capital on the sidelines, both from our corporates
- 11 and investment houses that are looking, you know,
- 12 to funnel financing and capital into the voluntary
- 13 carbon markets.
- But there's a tremendous amount of confusion
- 15 around quality, as everybody had mentioned today,
- 16 and what type of credits to buy, what type of
- 17 projects to support, and what type of exchanges are
- 18 listed products to interact with.
- And so, you know, we see a significant risk of
- 20 getting it wrong, obviously, for the market right
- 21 now, and see a huge role that the CFTC and other
- 22 regulatory bodies can play in helping to coalesce

- 1 the market around a centralized standard. What we
- 2 see, you know, is a lot of fragmentation across the
- 3 markets.
- 4 And, you know, we see certain folks defining
- 5 quality through credit rating agencies, to
- 6 registries themselves. We have customers that have,
- 7 you know, benches of 12 people deep that are
- 8 technical experts on additionality, leakage, and
- 9 various other quality criteria, and that are not
- 10 looking necessarily at credit rating agencies or
- 11 other quality standards and developing their own.
- 12 So there's a lot of bespoke fragmented
- 13 approaches to quality, and I think that there's an
- 14 opportunity for regulatory bodies to set standards,
- 15 you know, that the market coalesce and get
- 16 confidence around to not miss the opportunity to
- 17 scale, you know, and to bring us to the next stage
- 18 of the market.
- 19 MR. MACKLER: Hey, John, this is Sasha here.
- 20 Just want to ask you if you could please wrap up so
- 21 we can -- we can --
- MR. BATTAGLIA: Yes, absolutely. Sorry.

- 1 MR. MACKLER: Thank you.
- 2 MR. BATTAGLIA: If I missed a cue. I'll just
- 3 wrap it up right there and we can kind of get
- 4 through everybody and go to questions after that.
- 5 Thank you.
- 6 MR. MACKLER: I appreciate it. Thanks, John.
- 7 MR. BATTAGLIA: Sure. Sure.
- 8 MR. MACKLER: Next, we're going to turn to
- 9 Dirk Forrister, who's the President and Chief
- 10 Executive Officer of the International Emissions
- 11 Trading Association.
- MR. FORRISTER: Thanks, Sasha. And, thanks
- 13 Commissioners for still being here. You've been
- 14 through a lot today, and I'm trying to put myself
- 15 in your shoes and think about what you must make of
- 16 this.
- 17 And I hope that as you've heard all of this
- 18 discussion, there's a little bit more to it than
- 19 might first meet the eye, at least in terms of the
- 20 criticisms you might read about in the press.
- 21 There's actually a lot more structure around
- 22 these markets than one might believe, and really

- 1 the discussion has taken me back to work in this
- 2 town around the Waxman-Markey legislation back in
- 3 another time, right?
- 4 And during that time period, we were in
- 5 discussions IETA and CFTC, about the regulation of
- 6 the market that we thought would emerge under that
- 7 legislation and were quite supportive of CFTC
- 8 asserting jurisdiction over environmental markets
- 9 broadly, recognizing that somebody needed to do
- 10 that, right?
- 11 And then I remember making the prediction at
- 12 the time that we were such good lobbyists that we
- 13 were going to end up having market oversight
- 14 without the underlying market. And we sort of did
- 15 that too, right? Because now we don't have a
- 16 federally regulated market in terms of a compliance
- 17 market.
- But instead, we're trying to mimic it as best
- 19 we can with use of private standards and building
- 20 on kind of the experiences of other commodities in
- 21 the past in building up as much as we can in the
- 22 private sector to hopefully make the pathway to a

- 1 legislated solution easier when the time comes.
- 2 I guess I wanted to step back and take a bit
- 3 of a global perspective and take you back to Kyle's
- 4 presentation at the very beginning because I don't
- 5 think I need to repeat all the great things that
- 6 exchanges are doing or standards are doing and I
- 7 should confess many of my member companies are
- 8 around this table.
- 9 Maybe who isn't here as much are the end use
- 10 buyers, the companies that are actually making
- 11 investments. We've got a little bit of that. But I
- 12 guess what I wanted to reflect on was, you remember
- 13 his stair step, that stair step chart? All the
- 14 mitigation potential at various cost points and
- 15 volumes.
- And what was on that chart was something on
- 17 the order of nine or 10 gigatons, which in our
- 18 world is a lot of mitigation that's out there,
- 19 that's potential, but it doesn't have money.
- 20 And that's really what's at stake right now,
- 21 because the voluntary markets, from the United
- 22 States perspective, is probably the best tool that

- 1 we have for connecting finance from large US
- 2 corporates with the need in developing countries
- 3 for more mitigation funding, right?
- 4 Because that massive legislation that
- 5 President Biden got through on climate change had
- 6 zero international funding in it. So that's why
- 7 Secretary Kerry -- former Secretary Kerry is so
- 8 interested in this energy transition accelerator.
- 9 It's because it's a new standard that could drive
- 10 more investment into the energy transition in
- 11 developing countries.
- Because it's the one tool that we have for
- 13 directing finance, again, from the private sector
- 14 in the US. And as I think about that and ways that
- 15 you could be particularly useful in that, I'm also
- 16 thinking about your counterparts in the developing
- 17 world that are trying to figure out how do they
- 18 want to steer the investment, right?
- 19 You heard samples today about, well, we put a
- 20 restriction on this or -- and frankly, some of
- 21 those countries should be doing that. They should
- 22 make sure that they're going to comply with their

- 1 Paris targets before they take their national
- 2 treasure to market, right?
- 3 But I think what most of them are finding is
- 4 that they have more than enough mitigation
- 5 potential to meet their target. Frankly, what they
- 6 lack is the financing to bring more to the table,
- 7 and that's what these voluntary carbon markets have
- 8 the potential to do.
- 9 On their side of the table, I think one of the
- 10 other things, and Chairman Behnam, I was part of
- 11 the IOSCO session that you ran last year. And since
- 12 then, as I travel the world, one of the things that
- 13 I'm hearing more from developing countries is what
- 14 kind of market oversight structure do we need?
- I mean, there's some basic environmental stuff
- 16 that needs to be done about assuring the targets,
- 17 and there's a trade thing that needs to be done on
- 18 authorizing credits for international transfer.
- But the market oversight piece will also be an
- 20 item for them, and I would love to have a model
- 21 from the United States that's nimble, that's not
- 22 snuffing out the market, but is actually

- 1 encouraging it, but maybe gives us also a
- 2 replicable model. And I think that came out of
- 3 several of your comments in the opening about how
- 4 markets like these familiar models.
- 5 We like standardized contracts, we like
- 6 standardized crediting programs, we like a
- 7 threshold standard from the Integrity Council and
- 8 the Voluntary Carbon Market. These are all
- 9 extremely useful tools.
- 10 The one that Flavia spoke about from the World
- 11 Bank about helping standards digitize in a common
- 12 way so that the Climate Action Data Trust, that
- 13 we're involved in helping to implement, can reflect
- 14 all of the existing standards in one place.
- That would be an innovation for us right now
- 16 if a market participant wants to go and find out
- 17 who did diligence on a project and find out if it's
- 18 being considered in more than one registry or more
- 19 than one standard. You have to look like six or
- 20 eight different places. But this digital
- 21 infrastructure will bring it all together in one
- 22 place, again, as a public good.

- 1 I think all of these are building blocks for
- 2 something that could be truly transformational, but
- 3 your piece of it which we'd love to be in further
- 4 dialogue about how do you actually encourage, you
- 5 know, the proper use of these powerful tools
- 6 without sort of overkill of adding too much of a
- 7 regulatory burden.
- And I think we're open to finding what that
- 9 balance is, but I guess I just wanted to bring that
- 10 perspective about the International Finance
- 11 Component, because, frankly, it is --
- MR. MACKLER: Thanks. You just got to --
- MR. FORRISTER: What it represents.
- 14 MR. MACKLER: I just wanted -- I don't want to
- 15 cut you off, I just wanted to let you know we need
- 16 to move on.
- 17 MR. FORRISTER: Yeah. It's what represents the
- 18 success or failure of the Paris Agreement. So
- 19 thanks.
- 20 MR. MACKLER: Thank you. And I'm sorry to be a
- 21 little heavy handed here on the panel, but just
- 22 trying to keep things moving along. And our next

- 1 speaker is David Tenny, who is the President and
- 2 Chief Executive Officer of the National Alliance of
- 3 Forest Owners. Over to you, David.
- 4 MR. TENNY: Sasha, I'm going to keep your hand
- 5 light, because like everyone else, my blood sugar
- 6 level is about zero right now. So let me just tell
- 7 you a little bit about us. I'll do some contextual
- 8 table setting, talk about integrity, and then the
- 9 role of government. Our membership represents about
- 10 86 million acres of private forest land in the
- 11 United States.
- 12 That's a lot of trees. And the most important
- 13 thing I want you to know about these forests is
- 14 that they're working forests. These are the forests
- 15 that provide wood and fiber to our nation. I'm
- 16 going to give you three statistics that I hope
- 17 you'll remember for the rest of your lives, at
- 18 least while they're -- as long as they're valid.
- 19 First is that our private working forests in
- 20 the US are about 47 percent of the landscape of all
- 21 forests in the United States. That 47 percent is
- 22 providing about 47 percent of all of our carbon

- 1 storage in the United States and all of our
- 2 forests. So 47 is the first number. The second
- 3 number is 90.
- 4 These forests are providing 90 percent of our
- 5 timber harvest for everything that we produce from
- 6 our forests. So that creates a question. What is
- 7 the impact of that? The impact of that is they're
- 8 providing 80 percent of our net sequestration every
- 9 year. So 80 percent of our net sequestration is
- 10 coming from the forests that are producing 90
- 11 percent of our timber harvest.
- 12 What does that mean? That means that these
- 13 forests, as Sean pointed out earlier, are already
- 14 carbon negative. And that is in large measure an
- 15 outcome of traditional markets, quite apart from
- 16 any of the markets we're talking about here. Since
- 17 the 1950s, we've seen a significant increase of
- 18 both population and consumption in our country.
- 19 But what's happened with our forests, the
- 20 volume of forests in the United States has grown by
- 21 60 percent since the 1950s. That's what markets can
- 22 do. We can provide what the marketplace wants, but

- 1 the marketplace needs to give us very, very clear
- 2 signals, which brings us to integrity. The most
- 3 important thing on the minds of my CEOs in this
- 4 space is integrity. Why?
- 5 Certainly, there's a market opportunity here,
- 6 but beyond that there's a lot of reporting that's
- 7 going on in the world right now. Whether it's for
- 8 net carbon zero commitments, or whether it's for
- 9 scope emissions, or whether it's for sustainable
- 10 financing, whatever.
- 11 Integrity is the most important thing for our
- 12 members and it's not as much about the marketplace
- 13 as it is about social license. For us, our
- 14 contributions to climate change are like our
- 15 contributions to water quality and wildlife
- 16 habitat. They are a matter of social license.
- 17 And this marketplace could just enhance
- 18 everything that we do because we can provide what
- 19 the marketplace wants. So what can government do
- 20 about that?
- 21 Well, first and foremost, data is king. Data
- 22 analysis, the MMRV stuff that USDA is talking about

- 1 is king. We're working with USDA to provide a
- 2 single source of truth on the data.
- 3 Think of how much help that would provide to
- 4 the marketplace. What is the single source of
- 5 truth? It's the data that USDA is providing on
- 6 domestic forests in the United States through
- 7 forest inventory and analysis and making it
- 8 accessible through radical transparency. That's
- 9 number one. Number two, we need alignment across
- 10 government.
- 11 Think of how difficult it would be for the
- 12 CFTC to regulate No. 2 yellow corn if it didn't
- 13 even know what it was. We need USDA to tell CFTC
- 14 what No. 2 yellow corn is so that it can be
- 15 regulated in the proper way. Same thing for carbon.
- 16 We've got to have consistency across the
- 17 government. Confusion is death.
- 18 Finally -- or third, we can validate what's
- 19 already going on in the marketplace. We've got
- 20 Verra sitting right across from me. They're doing a
- 21 good job. Let's validate that; a stream like a good
- 22 parent would. Let's validate good things that

- 1 they're doing rather than kicking them in the shins
- 2 every time they are innovating and something
- 3 doesn't seem to go right.
- 4 They are doing a great job and we recognize
- 5 that everybody should. Fourth, we should spur
- 6 investment in climate solutions, either direct or
- 7 through market-based incentives. And USDA is doing
- 8 a great job at that. I think the IRA was about
- 9 that, and we need to keep that going.
- 10 And finally, the engagement of stakeholders.
- 11 If we want this to work, the world needs to be a
- 12 part of it, and certainly we'll do our part.
- 13 And with that, I will yield the balance of my
- 14 time, as they say in this town.
- 15 MR. MACKLER: Thanks very much, David,
- 16 appreciate that. We're going to turn now to Todd
- 17 Phillips, who's a Fellow in Corporate Power at the
- 18 Roosevelt Institute.
- 19 MR. PHILLIPS: Thank you. Thank you, Chairman
- 20 Behnam, Commissioners, David, and Abigail. If I
- 21 have one takeaway from this, it's this,
- 22 enforcement, enforcement, enforcement. The VCO

- 1 market is rife with failures.
- 2 As market participants have limited incentives
- 3 to ensure that VCOs actually deliver the climate
- 4 benefits they claim. The market for VCOs is subject
- 5 to widespread perverse incentives. Buyers are
- 6 mostly motivated by low prices and rely, at least
- 7 rhetorically, on the quality standards put forward
- 8 by voluntary carbon market standards.
- 9 Meanwhile, VCO auditors are paid by developers
- 10 who are not asked to opine on the quality of the
- 11 underlying market standards, so they face every
- 12 incentive to give positive opinions and developers
- 13 are primarily incentivized to achieve low prices
- 14 and cut corners, whatever standards allow.
- Because standard setters also run registries
- 16 and are paid on a per VCO basis, they are
- 17 incentivized to set standards officially low, that
- 18 many projects can meet them and opt to sell VCOs on
- 19 their registries, but perhaps not so low as to be
- 20 laughable.
- 21 Meanwhile, everyone competes against one
- 22 another, such that if one market participant

- 1 successfully cuts corners on quality, others have
- 2 an incentive to follow. Everyone is stuck in a race
- 3 to the bottom.
- 4 While I wish the CFTC could regulate a way all
- 5 the problems with the markets, the CFTC's role is
- 6 limited to policing fraud and market manipulation,
- 7 specifically Section 6.1 of the CEA, Rule 180.1.
- 8 Accordingly, enforcement is the most
- 9 significant tool the CFTC has. I was extremely
- 10 pleased to see the CFTC's whistleblower office
- 11 release its alert on carbon offsets and the
- 12 creation of the Environmental Fraud Task Force. And
- 13 I'm optimistic that this is a precursor to
- 14 significant enforcement actions.
- 15 I know that the CFTC's enforcement resources
- 16 are not unlimited, and I want to comment about
- 17 where the Enforcement Division should focus its
- 18 attention. CFTC Rule 180.1 prohibits fraudulent,
- 19 untrue, or misleading statements of material fact,
- 20 or omissions of necessary material facts made
- 21 "directly or indirectly" "in connection with" the
- 22 sale of any commodity.

1 This authority gives the CFTC wide latitude to

- 2 pursue the biggest and most important participants
- 3 in the VCO markets, even if they are not directly
- 4 involved with any particular asset sale.
- 5 Specifically, the CFTC should focus its attention
- 6 on standard setters, whose standards are used to
- 7 create millions of credits sold all over the United
- 8 States and the world.
- 9 Countless studies and in-depth investigative
- 10 reports demonstrate that many of these credits may
- 11 lack additionality and permanence and have leakage.
- 12 Accordingly, if standard setters intentionally or
- 13 recklessly make untrue or misleading statements of
- 14 material fact in connection with advertising the
- 15 benefits of VCOs generally, they should be liable
- 16 for violating the CEA.
- 17 Here's a hypothetical. Suppose a standard
- 18 setter's senior officer has actual or constructive
- 19 knowledge that a carbon credit methodology does not
- 20 result in a reduction of one ton of carbon dioxide
- 21 emissions relative to a reasonable baseline
- 22 scenario, perhaps because the employee has seen

- 1 studies disproving the methodology or its
- 2 application.
- 3 Yet the officer broadly states that all the
- 4 offsets it sells are worth one ton of carbon
- 5 dioxide emissions. If the officer knows or should
- 6 have known that the standards that are continues to
- 7 sell VCOs created under that problematic
- 8 methodology on its registry, that could violate
- 9 180.1.
- 10 Before I conclude, I want to note that perhaps
- 11 the worst thing the CFTC can do is implicitly bless
- 12 any one VCO standard or methodology. As the CFTC
- 13 decides to issue guidance, that guidance should be
- 14 limited to advising the industry what not to do,
- 15 rather than promoting particular methodologies.
- 16 After all the industry's self-regulatory
- 17 efforts have intentionally avoided this question.
- 18 which is why enforcement is so important. Thank
- 19 you. I'm happy to answer questions.
- 20 MR. MACKLER: That's great. Thank you, Todd.
- 21 Now we will be turning to Jonathan Goldberg, who's
- 22 the CEO of Carbon Direct, and he is joining us

- 1 virtually.
- 2 MR. GOLDBERG: Thanks, Sasha, and thanks,
- 3 Commissioner. I know we're running up on time, so
- 4 will keep the comments concise. For a quick
- 5 introduction, our firm was founded with a
- 6 commitment to the science of carbon management, the
- 7 bulk of our team, our scientists with different
- 8 expertise and different fields of carbon management
- 9 and carbon removal.
- 10 And our firm has worked with some of the
- 11 largest purchasers of carbon credits and carbon
- 12 renewable credits in particular. Firms like
- 13 Microsoft and JPMorgan, who have made large-scale
- 14 purchases key to our ethos is publishing so we do
- 15 publish a lot of our thought process on what we
- 16 think can and cannot make a strong carbon credit.
- 17 I don't want to belabor some of the other
- 18 points that have been made by previous speakers,
- 19 but we do have a challenge in the market today in
- 20 that there's a proliferation of credits that do not
- 21 meet the highest standards of carbon across the
- 22 different types of carbon removal that we look at.

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1 We've done more than 200 different reviews of
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- 2 different projects. It's difficult to consistently
- 3 find high quality credits in the market as other
- 4 speakers have noted. There are a number of sort of
- 5 well-intentioned groups, industry organizations now
- 6 that are trying to improve.
- 7 We do think this proliferation of standards is
- 8 potentially helpful, but can also be confusing to
- 9 the market. And therefore, we would agree that
- 10 there's a strong role that the government can play
- 11 with guidance to ensure high quality carbon
- 12 credits. I actually echo a number of the comments
- 13 the previous speaker made.
- We think one of the biggest, biggest areas
- 15 that the CFTC can lead on is the dissemination of
- 16 information and data that would allow buyers of
- 17 carbon credits to make or have informed decisions
- 18 around what they're purchasing, in particular
- 19 around areas of additionality on the idea that a
- 20 carbon credit is actually leading to an additional
- 21 ton of CO2 removed or reduced from the atmosphere.
- We've been pleased to actually see a number of

- 1 bills and in the state of California speaking to
- 2 the types of information that reasonable buyers
- 3 would want to use to make an informed decision
- 4 around carbon credits, around additionality, and we
- 5 think the CFTC can provide similar quardrails in
- 6 its enforcement and oversight.
- 7 Thank you for the opportunity. I know we're
- 8 short on time, but be happy to answer any
- 9 questions.
- 10 MR. MACKLER: That's great. Thanks, Jonathan.
- 11 And I should just note that Jonathan and his team
- 12 at Carbon Direct were partners of the BPC in the
- 13 report that I mentioned earlier which is, you know,
- 14 I think quite relevant to this conversation today.
- 15 And last but not least, we will turn to our final
- 16 panelist, Kari Larsen, who's a partner at Willkie
- 17 Farr, and Gallagher and is speaking on behalf of
- 18 the Futures Industry Association. Over to you,
- 19 Kari.
- MS. LARSEN: Thank you, Sasha. Thank you,
- 21 Chairman, and the entire commission for holding
- 22 this convening. I am Kari Larson. I'm a partner and

- 1 co-chair of Willkie Farr and Gallagher's Digital
- 2 Works Practice, and I also am a member of the
- 3 Futures Industry Association's Board of Directors,
- 4 and I'm delighted to be here today representing FIA
- 5 at this important event.
- 6 FIA believes in the power of well-regulated
- 7 markets to drive price discovery and provide
- 8 opportunities for risk management that are
- 9 critically important for a transition to a lower
- 10 carbon economy. Voluntary carbon markets are a
- 11 prime example of the kind of innovation that
- 12 financial markets can provide to the global economy
- 13 to assist with this transition.
- 14 While the markets have not yet scaled to their
- 15 full potential, it should be noted that carbon
- 16 markets have grown exponentially over recent years.
- 17 FIA is committed to working with the public and
- 18 private sectors to facilitate continued growth of
- 19 voluntary carbon markets that are reliable,
- 20 transparent and resilient.
- 21 As with any emerging or evolving market, which
- 22 you know that I love, meeting these objectives will

- 1 require infrastructure supporting these markets to
- 2 continue to mature and a greater degree of
- 3 standardization in order to increase participation.
- 4 This ultimately will boost confidence of
- 5 participants across the entire value chain and
- 6 promote a successful market.
- 7 The listed derivatives markets has a strong
- 8 track record of success in scaling high integrity
- 9 markets for a variety of asset classes. We are
- 10 confident that exchanges, in collaboration with
- 11 market participants and self-regulatory
- 12 organizations will develop the derivative products
- 13 necessary to support a robust climate market.
- 14 FIA commends the CFTCs efforts to promote
- 15 public dialogue toward better understanding of the
- 16 developments, the challenges and the opportunities
- 17 in the climate and sustainability linked markets,
- 18 including voluntary carbon markets.
- 19 Today's meeting is a testament to the CFTCs
- 20 commitment to tackling these important issues that
- 21 will define these markets for years and indeed
- 22 future generations to come. FIA would like to offer

1 several recommendations for the CFTC to consider,

- 2 as it considers action in this space.
- First, climate change and the ongoing energy
- 4 transition is global in scale. Therefore, FIA
- 5 encourages the CFTC to continue to coordinate with
- 6 global regulators and standard setting bodies to
- 7 align legal and regulatory treatment of voluntary
- 8 carbon offsets as much as practical across
- 9 jurisdictions. Second, voluntary carbon markets
- 10 have shown remarkable growth in recent years,
- 11 driven by private sector demand and ingenuity.
- 12 FIA would encourage the CFTC to prioritize
- 13 actions that will allow this continued innovation
- 14 and growth in these emerging products and markets.
- Third, FIA believes that the Commodity
- 16 Exchange Act, existing CFTC regulations, and the
- 17 self-regulatory regime administered by the National
- 18 Futures Association already provide a flexible and
- 19 principles based regulatory framework that allows
- 20 for effective and strong regulation of existing
- 21 environmental products and those yet to come.
- 22 Fourth, the FIA applauds the CFTC for engaging

- 1 with stakeholders, including through public
- 2 meetings such as the convenings and encourages the
- 3 agency to continue to listen to farmers, ranchers,
- 4 producers, commercial end users, and other industry
- 5 participants.
- 6 If the CFTC issues new regulations in this
- 7 space, it will be important to hear from
- 8 stakeholders during both the process of development
- 9 of the rules and through the formal comment
- 10 process. We look forward to continuing this
- 11 conversation and thank you again for holding this
- 12 important meeting today.
- MR. MACKLER: All right. Thanks. Well, we
- 14 landed the plane just about right on time, 5:00. I
- 15 really want to thank the panelists for the remarks
- 16 and, you know, I wanted to see if we can do a
- 17 little round of questions and discussion if there's
- 18 time for that.
- And so, maybe we can open it up for anyone
- 20 around the table if they'd like to ask any
- 21 questions and maybe if you're thinking about any
- 22 questions to ask, I'll throw out the first one

- 1 which may be to see if we can bring the
- 2 conversation back around to where we began today
- 3 and think about the position that the CFTC is in
- 4 right now.
- 5 As they're thinking about these markets and
- 6 taking in all that we've heard today, what advice
- 7 would you give to them and what could they be doing
- 8 from an oversight perspective to promote innovation
- 9 for high integrity carbon derivatives?
- 10 Do you have any basic takeaways or things that
- 11 you would like to add to your comments for the CFTC
- 12 as they take away from today? And I'll just open
- 13 that up for the panel.
- MR. FORRISTER: I'll just start off by saying
- 15 I think it's in a way the ICVCM that's been
- 16 referenced throughout this is a real gift to you
- 17 because it's going to provide this threshold of
- 18 quality and integrity that I think we all want to
- 19 see.
- 20 But I think your focus should remain on the
- 21 futures options derivative space, the financial
- 22 treatment of it because that's a real bear of a

- 1 task to try to get involved in the actual
- 2 underlying. I'm part of the ICVCM, I know the kind
- 3 of staffing that takes, the kind of pain that it
- 4 takes.
- 5 And frankly, it ends up extending to
- 6 developing countries, right, where the actual
- 7 projects take place and they need to be verified.
- 8 But I think the types of activities that you can do
- 9 to provide more clarity and assurance on secondary
- 10 markets could be great.
- MR. TENNY: Stay close to USDA. They are
- 12 connected to this community unlike any other
- 13 agency. Keep it simple.
- 14 The marketplace needs help, it doesn't need to
- 15 be overly complicated; and the regulatory touch,
- 16 light, light touch. If we want to foster something
- 17 that's going to work for the sake of the planet,
- 18 let's make it work.
- MR. PHILLIPS: Yeah, I would just add, I think
- 20 it would be very difficult for the CFTC to adopt
- 21 some kind of standard. The science is always
- 22 developing. There are new articles evaluating the

- 1 methodologies coming out all the time. And so, I
- 2 think let the private sector develop the
- 3 methodologies.
- 4 And to the extent that the CFTC can get
- 5 involved, I think it is making sure that projects
- 6 that do comply with the methodologies. I think that
- 7 there are problems with some of the methodologies,
- 8 but I don't know how the CFTC can or should get
- 9 there. So I reiterate enforcement, enforcement,
- 10 enforcement.
- 11 MR. MACKLER: That's great. There's -- there's
- 12 so many ways in which we can unpack this
- 13 conversation.
- 14 And, you know, there -- and be -- because
- 15 we're limited in time, maybe one thing that I sort
- 16 of hear, when I, and what I think about a lot when
- 17 we -- when we're starting to really engage with
- 18 these issues is the flag that comes up a lot in
- 19 when we're thinking about the integrity of these
- 20 markets is really around additionality.
- 21 Are these tons, are these reductions real? The
- 22 other part of this that hasn't come up as much and

- 1 that I'd love some reactions from this panel on is
- 2 the permanence question and are these reductions,
- 3 are these credits being used in the marketplace for
- 4 what they are, you know, in an appropriate way.
- 5 Can they be actually taking CO2 emissions off
- 6 of the corporate ledgers permanently as they are
- 7 being claimed to do in a lot of cases? Is that the
- 8 appropriate use and is that something that the CFTC
- 9 and the government bodies should be looking at as
- 10 well?
- 11 MR. FORRISTER: On this one, I would say wait
- 12 for the ICVCMs guidance on this because I think it
- 13 will be a topic that they cover. And it's one where
- 14 all of the standards have some slight variation in
- 15 how they do permanence. It is something that I
- 16 think is important to harmonize so that they're not
- 17 all different.
- 18 MR. MACKLER: That's right, and I know
- 19 Jonathan you wanted to jump in.
- MR. GOLDBERG: All right. Yeah, I was going to
- 21 say, I mean, it seems like there's sort of twofold
- 22 part of the question. One is, you know, what people

- 1 say they're using the credit for. So if you're
- 2 emitting a ton of carbon through flying or through
- 3 other activities, that's a permanent emissions.
- 4 There are some types of carbon credits that
- 5 are never going to be permanent removals by the
- 6 nature of them. There are ways to think through
- 7 different permanence and durability and different
- 8 types of credits by measuring the duration of
- 9 storage against something like an engineered
- 10 solution.
- 11 That's quite difficult to do and somewhat
- 12 subjective, even within the science. So I'm not
- 13 sure that the CFTC will be able to determine that,
- 14 but it should be able to determine whether people
- 15 are abiding by the rules that they've laid out and
- 16 the standards that they've set.
- 17 MR. TENNY: I would agree with that. Nothing's
- 18 permanent, even permanence. And so, as much
- 19 certainty as can be provided in timeframes, I think
- 20 that we see that there are timeframes associated
- 21 with these products. And there are plenty of
- 22 safeguards that are in place already.

1 The registries that we -- our member companies

- 2 would work with provide really good safeguards
- 3 already. So we have to just deal with the fact that
- 4 nature is changing all the time. And so, if we can
- 5 roll with that, then I think we'll get to the right
- 6 place.
- 7 MR. MACKLER: Yeah, I think the point is that
- 8 there's a timescale associated with the emissions
- 9 and there's a timescale associated with the action
- 10 on a reduction and are they in sync, that's the
- 11 question.
- 12 Any other thoughts from the panel on this or
- 13 anything else? Yeah.
- MR. PHILLIPS: So my understanding is that
- 15 carbon stays in the atmosphere for about a hundred
- 16 years. So I think that when we're thinking about
- 17 carbon offsets and permanence, I think carbon would
- 18 need to be removed from the atmosphere for at least
- 19 about a hundred years, the same duration as carbon
- 20 stays up there.
- 21 MR.GOLDBERG: Yeah, I mean sorry, but carbon
- 22 stays in the atmosphere for much, much longer than

- 1 that.
- 2 MR. PHILLIPS: Right.
- 3 MR. KEAVY: So I mean, there is not a scenario
- 4 where you just sort of let nature be nature. And
- 5 match on a permanent basis, like that will not
- 6 work.
- 7 There are other mechanisms that you can think
- 8 through, like you can think through different
- 9 stacking of credits, you can think through
- 10 different types of credits that you can buy over
- 11 time that can approximate the permanence of a CO2
- 12 emission that goes into the atmosphere. But it is -
- 13 it's not correct to think of it that way.
- 14 We really should not think of it that way.
- 15 When companies or governments are emitting carbon,
- 16 it is lasting in the atmosphere for a thousand year
- 17 plus. We can't get an exact number, and you should
- 18 think through what you are doing against those
- 19 emissions for a roughly equivalent basis.
- 20 Otherwise, it's a bad trade for the atmosphere.
- 21 MR. MACKLER: Thanks for that clarification,
- 22 Jonathan. I think that's a really important point

- 1 to inject into this conversation. I think with
- 2 that, we'll turn it back over to the Chairman.
- 3 MR. BEHNAM: Sasha, thank you. Thanks to the
- 4 panel. I'm going to turn it over to Commissioner
- 5 Goldsmith Romero if she has any closing remarks.
- 6 You're good? Okay. In the interest of Dave's blood
- 7 sugar level, we're going to wrap this up.
- 8 Thank you everyone for your time, your
- 9 patience, your contributions from the government
- 10 panel to everyone in the public sector, private
- 11 sector. We have our work to do, but we will
- 12 continue to engage, to listen and take your
- 13 feedback. And I think above all else, this is a
- 14 collective action problem.
- So the, you know, the effort has to be from
- 16 the ground up and it has to be all of us together.
- 17 So we'll continue to participate, take a look at
- 18 the record and then, you know, we have, as I said,
- 19 some steps ahead in the next couple of months.
- 20 But I do want to thank my fellow Commissioners
- 21 for being here, their participation, their
- 22 advocacy. And I will end with thanking Abigail

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1 Knauff and David Gillers, as was mentioned a few
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- 2 times today.
- 3 This doesn't happen without them. All of you
- 4 know as I said, their organization, their
- 5 expertise, getting everyone together, getting the
- 6 right people together is invaluable.
- 7 So thank you. Dan, thank you for your
- 8 participation. Welcome back. And everyone have a
- 9 great evening. And please be in touch with all of
- 10 your input and expertise. Thank you.

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