

FEDERAL TRADE COMMISSION

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CARBON OFFSETS AND RENEWABLE ENERGY CERTIFICATES

Tuesday, January 8, 2008

9:00 a.m.

Federal Trade Commission
FTC Conference Center
601 New Jersey Avenue, N.W.
Washington, D.C.

For The Record, Inc.
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P R O C E E D I N G S

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WELCOMING REMARKS

MR. KOHM: Good morning and welcome to the Federal Trade Commission's Carbon Offsets and Renewable Energy Certificates Workshop. Before we begin today, I have a couple of announcements. The first is somebody lost a SmartTrip card this morning and it's at the guard's desk out front. So, if anybody can't get home today, that's where you need to go.

Before I begin, a few announcements for panelists and the audience. For those people who are going to be panelists today, please lean into these microphones. They don't pick up sound when you lean back and we have a pretty full house today, and we want to make sure that the people in the back are able to hear you.

We're going to endeavor to stay on time today. We have a lot of things to do and a very full agenda. So, if the panelists can please stick strictly to the time limits that have been provided. We want to make sure everybody hears what you say, but we want to also make sure we have time for questions and that we don't crunch the people at the end of the day.

There will be time for questions at the end of

1 each panel. In order to ask questions, please fill out
2 the cards that have been provided, the question cards
3 that were provided this morning. If you need additional
4 question cards, they will be in the back of the room.
5 Simply fill out the card and hold it up, somebody will
6 come by and get the card and bring it to the moderator.
7 We aren't always able to ask everybody's question, but
8 we'd like to make all the questions part of the official
9 record of this event. So if you can please write
10 legibly. And while we'll take anonymous questions, we
11 would appreciate it if you would write your name and
12 affiliation on the card and we'll actually scan the card
13 and make that part of the record.

14 If you would like to know what restrictions we
15 place on the use of that information, namely being your
16 name and affiliation, you could visit our website and
17 look at our privacy policy.

18 The record of this event will remain open until
19 January 25th, so if people want to answer those
20 questions, if you want to supplement your comments, if
21 you hear anything today that you would like to comment
22 on, we'd encourage everybody to file those comments. In
23 order to do so, you can send paper to the FTC's main
24 address, but we'd prefer if you would comment on the
25 website. Simply go to the FTC website, click on the

1 carbon offset button, and follow the instructions. It's
2 very easy to do.

3 Today's event is also simultaneously webcast
4 and transcribed, so you'll be able to go to the site and
5 see copies of both the transcription and the webcast that
6 could help you with any further comments.

7 In making comments, I just remind everybody
8 that today's event is part of a rule-making record which
9 is something a little different for the Federal Trade
10 Commission. So, please keep in mind that what we're
11 looking at is what claims are being made, how those
12 claims are understood by consumers, whether the claims
13 are truthful and substantiated, and what advice the FTC
14 can give to help people avoid making deceptive claims.

15 Turning to a few housekeeping matters. First,
16 regarding safety and security. Everybody received a name
17 tag when they came in this morning. You need to wear
18 that name tag at all times when you're in the building.
19 If you see anything suspicious while you're here, if you
20 see somebody walking around at the conference without a
21 name tag, you can tell the guards at the front desk in
22 the lobby.

23 When you leave the building today, you'll have
24 to come back in through the same security procedures you
25 came in this morning. So, particularly, when you go to

1 lunch today, make sure you leave enough time because we
2 will be starting on time to come back through those
3 procedures.

4 In case of a fire emergency, there are two
5 exits, the main exit is out the main entrance onto New
6 Jersey Avenue. If you go straight back through the
7 pantry, there's also an exit to the left out to G Street.
8 If we have such an emergency, please leave in an orderly
9 fashion and cross diagonally across New Jersey Avenue.
10 So you stay far away from the building.

11 For everyone's enjoyment today, please either
12 turn off your cell phones, your Blackberries or put them
13 on vibrate. We realize it's a long day and everybody
14 can't necessarily be out of touch all day. If you do get
15 a call or you want to make a call, however, please don't
16 do that in this room. Aside from interfering with
17 everybody else's enjoyment, it also interferes with our
18 equipment. So if you want to make a call or you receive
19 a call, please go all the way through the first set of
20 glass doors out into the lobby.

21 We also have recycling bins, paper, plastic and
22 aluminum right outside in the gallery. There's also a
23 box for unused question cards. We'd encourage everybody
24 to use those.

25 Finally, for those of you who are going to be

1 here all day and who haven't been listening to these
2 announcements just waiting for the first speaker, the
3 next ten seconds is what you want to really listen to.
4 The bathrooms are across the lobby. If you go to the
5 left of the guard desk and follow the corridor around to
6 the left, you'll find both bathrooms. Okay, that
7 concludes today's announcements.

8 Turning to our first speaker. Four years ago,
9 one of Chairman Majoras' first duties when she joined the
10 FTC was to open another workshop put on by the
11 Enforcement Division. At that time, my predecessor
12 introduced her as an anti-trust attorney with an inner
13 consumer protection lawyer just waiting to get out.

14 Today, I'm proud to introduce the preeminent
15 anti-trust and consumer protection attorney, the
16 Chairman of the Federal Trade Commission, Deborah Platt
17 Majoras.

18 **(Applause.)**

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OPENING REMARKS

1
2 CHAIRMAN MAJORAS: Well, thank you so very
3 much, Jim. It's terrific to be here. I welcome everyone
4 to Washington and, particularly, our participants in this
5 workshop. I also want to give a special welcome to those
6 joining us by webcast. I must say this is one of our
7 best attended workshops we have had in a while. And, so,
8 together with our webcast participants, I think we're
9 going to have just a tremendous dialogue. So, thank you
10 for being here.

11 Why are we here? Well, from the sun belt to
12 the rust belt to the beltway, consumers are showing
13 increasing interest in environmental issues and,
14 importantly, this interest may be influencing their
15 purchasing decisions. In a recent USA Today Gallup poll,
16 more than eight in ten Americans said that a company's
17 environmental record should be an important factor in
18 deciding whether to buy its products.

19 Businesses have taken notice, and in the past
20 year there's been a virtual explosion of green marketing.
21 NBC devoted an entire week to green programming. The
22 current issue of Good Housekeeping includes a piece of
23 how to buy green and not get fooled. Other magazines
24 like Vanity Fair have released green issues and retailers
25 like Wal-Mart and Home Depot have launched green product

1 lines.

2 In response to this rise in green marketing, we
3 have accelerated our review of the FTC's Green Guides,
4 which were first issued in 1992 and then updated in 1998.
5 We do a regular review on a schedule of our guides and
6 rules, but this one we have decided we need to do at an
7 accelerated pace.

8 Now, for some of you here today, this may be
9 your first exposure to the FTC, so let me just tell you a
10 little bit about who we are and what we do. Our two
11 fundamental missions are to promote and safeguard
12 competition and to protect consumers. We're a relatively
13 small agency with about just under 1100 employees, but we
14 not only tackle a wide range of prominent competition but
15 consumer protection issues which we'll focus on today.
16 From spam to spyware to mortgage fraud, media violence to
17 mobile marketing, data security to debt collection. And,
18 of course, we run the national Do Not Call Registry.

19 In the advertising realm, our fundamental tool
20 is the FTC Act which prohibits unfair or deceptive trade
21 practices. So, for marketers, the basic rule to remember
22 is that any material misrepresentation, omission or
23 practice is deceptive if it's likely to mislead consumers
24 who are acting reasonably. In short, marketers have to
25 have a reasonable basis to support their advertising

1 claims.

2 Now, our job is not to substitute our judgment
3 for that of consumers or to save them from making bad
4 choices, which unfortunately we all do sometimes.
5 Rather, it's to ensure that they obtain the truthful
6 information that they need to make their own choices.
7 And when markets function in this way, consumers win.
8 They secure a broader selection of innovative products at
9 lower prices.

10 In fulfilling our mission at the FTC, we employ
11 a variety of tools, including law enforcement, market
12 research, business education, consumer education, and the
13 encouragement of sound, self-regulation in the industrial
14 realm. Over the years, our work in the energy and
15 environmental fields has underscored this multi-tiered
16 approach. We've challenged deceptive practices in court,
17 we've published information to help consumers make
18 informed green purchasing decisions, and we've
19 promulgated rules and guides to make the rules of road in
20 this area clear for business. We've also encouraged well
21 constructed industry self-regulatory programs as a way to
22 compliment our own government efforts.

23 The FTC's Green Guides apply the FTC Act to
24 environmental advertising and marketing practices and
25 offer marketers general principles on how to avoid making

1 misleading claims. The guides also provide guidance to
2 marketers on specific claims such as what is meant by
3 environmentally friendly, recyclable, compostable. Since
4 the guides were last revised in 1998, of course, the
5 market has experienced the increased use of these terms
6 to promote the green attributes of products, their
7 packaging, their manufacturing processes. But we've also
8 had the introduction, of course, of new terms like
9 sustainable, bio-based, cradle to cradle, and carbon
10 neutral.

11 Given the dynamic nature of this marketplace,
12 it's important that the guides are responding to today's
13 challenges and to consumer perceptions currently of these
14 environmental claims. After all, consumers today have
15 the option to purchase products and use them in ways that
16 were unforeseen 15 years ago, when we first developed our
17 guides, and consumer perceptions of old green claims may
18 have evolved significantly over time. Our robust review
19 of these guides will allow us to explore emerging
20 consumer protection issues and provide better direction
21 to green marketers.

22 Now, as is usual in reviewing a rule or guide,
23 the FTC is seeking public comment on the continuing need
24 for the guides, their economic impact, the affect of the
25 guides on the accuracy of various environmental claims,

1 and the interaction of the guides with other
2 environmental marketing regulations.

3 Given the explosion in the role of green
4 marketing, though, we also decided to hold a series of
5 public workshops on emerging green marketing issues.
6 What we have found is that holding these types of
7 workshops, and we do it on a whole variety of issues
8 within our jurisdiction, provides us with an effective
9 and very open way to take in and test the perspectives of
10 various experts and stakeholders in these areas.

11 Today's event, the first in a series, focuses
12 on carbon offsets and renewable energy certificates, or
13 RECs, which are among the new products not addressed
14 specifically today by the Green Guides. Carbon offsets
15 and RECs are separate yet closely related products in
16 this marketplace and, as many of you know, I'm quite
17 certain, carbon offsets which are available now for
18 purchase frequently serve as the basis for claims that
19 greenhouse gas emissions are reduced. The offsets are
20 memorialized in credits or certificates that purportedly
21 represent measurable reductions in greenhouse emissions
22 accomplished through such activities as methane capturing
23 or tree planting.

24 RECs, on the other hand, serve as a new means
25 to market renewable energy. RECs represent the renewable

1 attributes of electricity from wind, solar and other
2 renewable energy sources and are sold separately from the
3 electricity produced. As is the case with carbon
4 offsets, companies and individuals can purchase RECs to
5 offset emissions associated with their own activities.
6 In an effort to become carbon neutral, many purchasers
7 seek to obtain enough offsets to match their own
8 emissions.

9 The term "carbon neutral" has received a lot of
10 attention. Indeed, early last year, the new Oxford
11 American Dictionary added the word "carbon neutral"
12 having named it the 2006 word of the year. I didn't know
13 such a thing existed. Last year, consumers watched a
14 carbon neutral Superbowl, Academy Awards telecast, and
15 NASCAR race.

16 Interest in carbon offsets and RECs, however,
17 has not been limited to football fans, Oscar winners and
18 racing enthusiasts. According to a recent Business Week
19 article, the market for carbon offsets in the U.S. could
20 be as high as \$100 million, and the New York Times
21 reported that the number of offsets sold by online
22 realtors grew by more than 42 percent from 2005 to 2006
23 and continued to grow at a steep rate during 2007. The
24 sale of carbon offsets and RECs, if marketed truthfully,
25 can provide interested consumers the opportunity to

1 participate in this market for products and services that
2 may reduce emissions.

3 To explore the consumer protection issues
4 raised by this emerging market, throughout the day,
5 experts from environmental organizations, industry,
6 government and academia will address the technical and
7 marketing issues posed by carbon offsets and RECs. These
8 experts will discuss a wide range of issues related to
9 these products, including efforts by a variety of
10 organizations in the U.S. and internationally to develop
11 methods for substantiating these claims, as well as
12 discussing new and ongoing self-regulatory and
13 certification efforts.

14 We hope that our discussions today can play an
15 important role in furthering our collective understanding
16 of the challenges that are presented here, and let me
17 throw out a couple that we see.

18 For example, unlike tangible goods like cars or
19 breakfast cereal, carbon offsets and RECs don't offer
20 consumers an easy way to verify that they're receiving
21 the product for which they paid. Many of the products
22 funded by the sale of RECs or carbon offsets occur in
23 places remote from consumers, whether the activity is
24 planting trees in another country or subsidizing wind-
25 powered energy across the U.S. Moreover, even if

1 consumers could see the project in action, most of us
2 would have great difficulty in confirming that our offset
3 purchase actually funds that particular project, or that
4 the project would not have happened without our purchase,
5 or for that matter that the project actually reduces
6 atmospheric carbon in the amount that's claimed. Simply
7 put, with this much uncertainty, there's a heightened
8 potential for deception.

9 In addition, these new products raise questions
10 of consumer interpretations. So, for example, when
11 consumers buy offsets, do they know what they're
12 purchasing? How do they interpret express claims about
13 the general environmental benefits of the products and
14 what implied claims are consumers taking away from this
15 marketing? And, of course, substantiating claims may
16 pose challenges for marketers.

17 Marketers first have to ensure that both the
18 express and implied claims are based on competent and
19 reliable evidence. If you say that your product offsets
20 a certain amount of atmospheric carbon, then it should do
21 just that. Additionally, even when the science is sound,
22 other substantiation issues may arise. For example,
23 sales of offsets and RECs may involve multiple
24 transactions in a variety of different entities, and
25 inadequate tracking and verification systems could lead

1 even those sellers acting in good faith to inadvertently
2 sell the same product more than once. Unfortunately,
3 these realities could also create opportunities for bad
4 actors to deceive consumers.

5 So, today, we're going to explore these and
6 other issues to determine the best way for the FTC to
7 protect consumers in these burgeoning markets. A deeper
8 understanding not only would help us combat fraud in the
9 future, but will help us provide better guidance to
10 marketers seeking to make truthful claims and also to
11 provide guidance to consumers in making purchasing
12 decisions.

13 Consistent with our past efforts on green
14 matters, though, I want to make clear that we don't plan
15 to develop environmental performance standards. We don't
16 have the authority or the technical expertise to address
17 issues of environmental or energy regulation, per se.
18 Nor are we in the business of mandating environmentally
19 preferable practices. Instead, our efforts will focus on
20 our traditional consumer protection role addressing
21 deceptive and unfair practices under the FTC Act. And as
22 part of this effort, we are seeking to determine whether
23 additional FTC guidance is warranted and, if so, what
24 that guidance should be.

25 We have an impressive group assembled here

1 today, so I am confident that we are all going to leave
2 better informed than when we arrived. So, again, I want
3 to thank you for your interest and participation in these
4 very important issues, and my special thanks to the
5 panelists for taking time to lend us your expertise.
6 Have a good day. Thank you.

7 **(Applause.)**

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1 **INTRODUCTION TO ADVERTISING LAW**

2 MR. KOHM: We'd like to invite the first panel
3 up.

4 For those of you in the back of the room, I
5 think there's seats over here if you want to come grab
6 those now. There's also some seats in the front row over
7 to the left.

8 MS. FAIR: Good morning, I'm Lesley Fair, I'm
9 an attorney in the Bureau of Consumer Protection working
10 in our Division of Consumer and Business Education. I
11 have the relatively simple job today of explaining the
12 93-year history of FTC law enforcement in now 14 minutes
13 and 30 seconds, so hold on. For those of you who are FTC
14 regulars, this will be a review, but I hope we can give,
15 at least, some basic information.

16 Let me also mention, on a sticky note that I
17 can assure you is made from 100 percent recycled
18 materials, that the opinions I am going to be expressing
19 today, as well as FTC staff at this event, are mine alone
20 and don't necessarily reflect the official position of
21 the Federal Trade Commission.

22 For those who are used to dealing with the
23 regulatory frameworks of other agencies, the FTC offers,
24 I think, a different and a streamlined approach.
25 Certainly, we have, in our relatively thin volume in the

1 Code of Federal Regulations, a few regulations that will
2 apply across the board regardless of the nature of the
3 product or service you're selling. For example, the Mail
4 Order Rule would require that if you're selling products
5 via let's say a catalog, online, anywhere through the
6 mail, that you deliver your products in the requisite
7 length of time regardless of what the nature of the
8 product is.

9 Anyone who uses email marketing as part of
10 their campaign will need to follow the requirements of
11 the Can-Spam Act to offer consumers an easy way to opt
12 out of receiving future email. So, those kinds of rules
13 apply across the board regardless of the nature of the
14 product or service that you may be selling.

15 The FTC also has a limited number of specific
16 rules and guides related to certain industries.
17 Certainly, things like the Used Car Rule or the Appliance
18 Labeling Rule, the Green Guides, as the Chairman
19 mentioned, one of the ones that are probably of most
20 interest to the folks that we're going to be talking
21 about today.

22 However, the real basic of where the Federal
23 Trade Commission's law enforcement approach begins is
24 Section 5 of the FTC Act, which I think is 23 words long,
25 last I counted it, has really not changed in the 93-year

1 history of the agency, and here is what it says. "Unfair
2 methods of competition in or affecting commerce and
3 unfair or deceptive acts or practices in or affecting
4 commerce are hereby declared unlawful."

5 The vast majority of what the FTC does in the
6 law enforcement arena is based on enforcing this 23-word
7 statute. So, if you are looking in our law for specific
8 case law dealing with carbon offsets or specific case law
9 dealing with RECs, you're not likely going to find them.
10 What you'll find instead is the FTC's approach under
11 Section 5 of the FTC Act.

12 Let me call your attention to two very
13 important words, as the Chairman mentioned, deceptive
14 acts or practices and unfair acts or practices. These
15 words have very specific meanings under our law.

16 So, when is an act or a practice deceptive
17 under the FTC Act? To find out more about this, you'll
18 want to look at the FTC's Deception Policy Statement
19 which applies across the board to all products and
20 services and is readily available at FTC.gov, but here is
21 the summary. An act or practice is deceptive under the
22 FTC Act if it contains a representation or an omission of
23 information that would be material to consumers,
24 important to their decision to buy or use the product,
25 and that would mislead consumers acting reasonably under

1 the circumstances. That's about 95 percent of the legal
2 theory that the FTC uses when we challenge a false or
3 deceptive advertising in the marketplace.

4 What is an unfair act or practice under the FTC
5 Act? If it's likely to cause substantial consumer
6 injury, that could be physical or economic, not
7 reasonably avoidable by consumers themselves, and not
8 outweighed by benefits to consumers or competition.
9 You'll find more about this in the FTC's unfairness
10 policy statement. Portions of this have actually been
11 incorporated into the FTC Act itself. That makes up
12 about 5 percent, but an important 5 percent, of what the
13 FTC does in law enforcement actions to protect consumers.

14 These same standards apply across the board to
15 all products and services. These same standards also
16 apply across the board, regardless of the advertising
17 medium that a company may use to disseminate its claims.
18 Bearing in mind from the FTC's point of view, too, things
19 that a company says on its website about its products or
20 services are ads in the same way that a million dollar
21 buy for 15 seconds of a carbon neutral Superbowl are ads.
22 So, it's important to bear in mind that your slogans,
23 your trade names, as well as what you might say in a
24 newspaper or radio ad or online are all ads subject to
25 the Federal Trade Commission Act.

1 Here are just four basic principles that I
2 think guide the FTC's view of how to enforce those 23
3 words to protect consumers the best. First, that the FTC
4 looks at advertising claims from the point of view of
5 reasonable consumers. Now, I'm not asking for a show of
6 hands, but remember, reasonable consumers don't have your
7 expertise in the technical areas that may be involved
8 here. Some of them may have actually flunked organic
9 chemistry at some point in their life. What you're
10 looking for is a reasonable member of your target market
11 and that may well be an average Joe or Josephine American
12 on the street, how they interpret the claims. So, it's
13 not how the advertiser or scientist or technical experts
14 interpret the claims, it's how reasonable consumers do
15 it.

16 The basic principle that companies need to
17 remember is that before running an ad, the advertiser
18 must have substantiation for all claims, that's express
19 and implied claims, that those reasonable consumers would
20 take away from the ad. Now, again, the issue is not what
21 claims did the advertiser intend to convey. That's not
22 how the FTC looks at it. It's what claims reasonable
23 consumers take from the ad. So, it's important to bear
24 in mind not just what an advertiser may intend to
25 communicate, but how real-life consumers are actually

1 interpreting these claims. Obviously, the level of
2 substantiation is going to depend on the nature of the
3 claim as I'll show in an example in just a minute.

4 Third, if a claim is truthful only under
5 certain limited circumstances, advertisers must take care
6 to qualify that claim and to do that carefully. General
7 environmental claims that may actually need careful
8 qualification is another topic I think that advertisers
9 are going to want to pay particular attention to. I'll
10 show a hypothetical example.

11 Finally, if a disclosure is necessary to
12 prevent an ad from being deceptive, it must be clear and
13 conspicuous. Simply put, what the headline giveth the
14 footnote cannot taketh away. That applies across the
15 board regardless of the nature of the product.

16 To show how these four principles work, the two
17 questions that the advertisers must ask themselves before
18 running an ad -- and, yes, the substantiation requirement
19 requires that the company possess this reasonable basis
20 before disseminating the claims.

21 First, what claims, express and implied, does
22 my ad convey to reasonable consumers? And, second, do I
23 have competent and reliable evidence which, depending on
24 the claim, may require scientific evidence to support
25 each of those claims?

1 Let me walk through this using just a
2 hypothetical I came up with. I call this product
3 LumaGreen energy frugal light bulbs. At least as of ten
4 days ago, I spent quite an amount of time on the Patent
5 and Trademark website trying every cognate of eco, earth,
6 green and enviro. I think this is the only thing that
7 hasn't been taken yet and, again, it's up for grabs if
8 anybody wants to, but LumaGreen energy frugal light
9 bulbs. And, as I said, this is strictly a hypothetical
10 not based on an actual product.

11 Let's take a look at the kinds of claims you're
12 likely to see in an ad like this. First, replace your
13 current 100-watt bulbs with LumaGreen energy frugal
14 lights and bathe your home in the natural glow of the
15 sun. The concern here -- let's say I told you that the
16 LumaGreen bulbs only provided 65 watts of light. From
17 the FTC's point of view, we would be very concerned that
18 consumers would be left with the impression that they
19 would be getting 100 watts of light from the LumaGreen
20 energy frugal lights. So, there would be a concern about
21 what kind of express or implied claim consumers are
22 taking from the ad.

23 Now, the fact that the company did not
24 literally say, you'll get 100 watts of light, does not
25 mean that that claim doesn't have to be substantiated.

1 So, here is an example of where we're going try to find
2 out how consumers interpret that claim. Do consumers
3 understand that claim that they're going to be getting
4 the equivalent of 100-watt bulbs? So, that explains that
5 we look at these claims from the point of view of
6 reasonable consumers.

7 The second basic proposition, again, to
8 substantiate all claims, express and implied, that
9 reasonable consumers take from the ad. For each 100-watt
10 bulb you replace with a LumaGreen energy frugal light,
11 you'll save \$28 a year on your electric bill. Not an
12 unusual claim, the kind of thing we see a lot. Those
13 kinds of claims -- generally speaking, claims must be
14 substantiated with competent and reliable evidence.
15 Claims about the benefits, efficacy, health, safety, or
16 similar objective product representations, they're going
17 to need competent and reliable scientific evidence.

18 How does the FTC define that? We look at
19 competent and reliable scientific evidence as
20 methodologically sound tests, studies, scientific
21 research, based on the expertise of professionals in the
22 field, objectively conducted by qualified people, using
23 procedures accepted as accurate, yielding statistically
24 significant results. So, we're talking solid science
25 here.

1 Maybe it's helpful to talk about what competent
2 and reliable scientific evidence is not. It's not
3 anecdotal evidence from consumers. The fact that
4 consumers like the product is lovely and we hope that
5 happens, but that is not the same as competent and
6 reliable evidence.

7 Popular press articles, you know, Vogue
8 Magazine is not the New England Journal of Medicine, in a
9 different kind of context. If you're making scientific
10 claims, popular press articles or newspaper reports
11 aren't going to stand up.

12 Sales materials from the person who sold you
13 the active ingredients or the underlying products are not
14 going to be substantiation simply because they, too, have
15 a motivation to sell you something

16 The fact that there's a low return rate, again,
17 a nice thing but does not prove, does not substitute for
18 competent and reliable scientific evidence, neither does
19 the fact that a company may offer a money back guarantee.
20 Certainly, a money back guarantee gives rise to the need
21 to honor that guarantee, but, again, it does not
22 substitute for competent and reliable scientific
23 evidence.

24 So, in looking at a claim like this, the FTC is
25 going to try to figure out, you know, that \$28 claim is

1 going to depend on a lot of different things. What's the
2 cost of electricity in different parts of the country?
3 How is the product used? Is this on a 24-hour a day
4 lightbulb or on a lamp that's flicked on for just a few
5 minutes a day? So, all those variables companies need to
6 bear in mind when trying to come up with the adequate
7 level of substantiation for making these claims. But
8 what companies definitely need for objective product
9 claims is competent and reliable scientific evidence that
10 they're truthful.

11 Here is another claim. At only \$2.99,
12 LumaGreen energy frugal lights are a bright idea. I
13 always say if -- the deal I would like to make is if
14 marketers and lawyers stop using asterisks, I will do
15 what I can to get the government to stop using asterisks.
16 But here, just hypothetically speaking, you'll notice the
17 asterisk after the \$2.99. At the bottom of the ad, in
18 four-point type, is this phrase. Special introductory
19 unit price with online purchase of 144-light case, for
20 more information go to the website.

21 The FTC would likely say, you know, it
22 certainly would be from a staff perspective that that
23 would be an ineffective disclosure because it did not
24 clearly and conspicuously disclose what the true price
25 is. So, it's those kinds of considerations that the FTC

1 is going to look at, again, what the headline giveth the
2 footnote cannot taketh away.

3 I have gone back 58 years in FTC juris prudence
4 and, to my knowledge, the Commission has never lost a
5 case when the company's defense was, but we disclosed it
6 in a footnote or on a television superscript. So just to
7 let you know how that works.

8 Finally, the kind of claim that a lot of times
9 we all see in these save the earth, earth-friendly,
10 general claims -- bear in mind that it's going to be
11 important how consumers interpret those representations.
12 It's probably, I would suggest, unwise to try to get
13 around the substantiation requirement simply by using
14 what I would call the green buzz word du jour. Remember
15 that slogans like this may well convey information and
16 convey claims to consumers.

17 Let's say, hypothetically speaking, that the
18 filament of my magnificent LumaGreen energy frugal
19 lightbulb, unlike other products, is made from the
20 dreaded element Washingtonium, I'm calling it.
21 Certainly, companies would have to be careful about
22 making these general, unqualified save-the-earth kinds of
23 claims when there are mitigating factors or factors
24 outweighing it that raise other concerns about the safety
25 or benefits of the product. So, again, I think these are

1 things advertisers need to watch out for in using these
2 general slogan-type statements in their ads.

3 Now, where can companies go for more
4 information about how the FTC looks at advertising
5 claims? Certainly, in the back of the room today, you
6 have the business guidance piece, *Complying with the*
7 *Environmental Marketing Guides*, I think a very useful
8 source of information. You'll also find little copies of
9 our *FTC Business Briefcase*, which include 68 of the most
10 popular plain language business guidance documents,
11 including complying with the environmental marketing
12 guides to give you a little bit more information about
13 how the FTC looks at these kinds of advertising claims.

14 I'm 15 seconds over, but there you have it.
15 Thank you very much.

16 **(Applause.)**

1 **SESSION 1: MARKET OVERVIEW - CURRENT PRACTICES**
2 **FOR CARBON OFFSETS AND RECS**

3 MS. HANN: Lesley, thank you for an informative
4 and, as always, dynamic presentation.

5 Good morning, everyone, and welcome to session
6 one. Market Overview: Current Practices for Carbon
7 Offsets and Renewable Energy Certificates. My name is
8 Carolyn Hann. I am an attorney in the Enforcement
9 Division of the Bureau of Consumer Protection, and I will
10 serve as the moderator for this session.

11 I would like to introduce our distinguished
12 panel. First, we have Kate Hamilton, who is the Carbon
13 Project Manager at Ecosystem Marketplace. Next is Lori
14 Bird, a Senior Energy Analyst with the National Renewable
15 Energy Laboratory, or NREL. Our third panelist is
16 Rebecca Tushnet, Professor of Law at the Georgetown
17 University Law Center. And, finally, Alan Levy, a Senior
18 Scientist at the Food and Drug Administration.

19 This session will provide an overview of four
20 discrete areas, all of which will lay the groundwork for
21 today's workshop. First, Kate Hamilton will present an
22 introduction to the carbon offsets market. She will be
23 followed by Lori Bird who will provide an overview of the
24 renewable energy certificates market. Next, we will turn
25 to Rebecca Tushnet who will cover First Amendment and

1 commercial speech issues. Finally, Alan Levy will
2 discuss consumer perception in new markets such as these.

3 And, now, Kate will start us off.

4 MS. HAMILTON: Thank you for the introduction,
5 Carolyn, and thank you all for being here. I know that
6 carbon offsets and coffee are always a good first of the
7 morning to get my day started right.

8 Before we delve into some of the deeper
9 questions around these markets, I was asked to introduce
10 the carbon markets in general, and particularly, the
11 voluntary carbon markets.

12 I come from an organization called Ecosystem
13 Marketplace. We're a non-profit, but we were created to
14 be sort of a Bloomberg for these emerging payment for
15 environmental service markets. So, we look not only at
16 carbon markets, but also other environmental markets such
17 as wetlands banking or water quality markets. And I
18 focus on the carbon markets.

19 So, a few key principles enable these markets
20 to happen, and one is the fact that greenhouse gases
21 circulate evenly around the earth, so that the climate
22 doesn't care whether I've emitted my greenhouses gases in
23 New Jersey or in China. This enables us to find sort of
24 the biggest emission reduction bang for our buck when
25 we're looking around the earth and how are we going to

1 reduce these emissions. So, from an environmental
2 position, this can enable us to reduce as many emissions
3 as we can afford, or from an economic perspective, this
4 could allow us to reduce the same amount of emissions at
5 a cheaper cost.

6 So, then the idea with offsets is that an
7 entity decides they want to balance out their emissions
8 by paying someone else to reduce or sequester or
9 discontinue their own emissions, and, in theory, the
10 second entity would be doing this at a lesser cost than
11 the first entity. Otherwise, the first entity wouldn't
12 need to offset.

13 A second big principle about this market is
14 then it puts a price on greenhouse gas emissions and
15 releasing greenhouse gas emissions, and once companies
16 realize there's an additional cost to releasing these
17 emissions, they're more likely to try to reduce these
18 emissions. So, even if you're voluntarily offsetting,
19 then you're still paying for the emissions that you are
20 offsetting and may want to think about ways to reduce
21 them.

22 Another big issue is this idea that reducing
23 emissions can have other social or environmental
24 co-benefits. There's also a lot of discussions in that
25 if you're only focused on reducing or sequestering

1 greenhouse gas emissions, you may be sacrificing other
2 environmental or social concerns.

3 So, this is a not-to-scale model of some of the
4 markets of the carbon markets. And a big point that I
5 wanted to focus on is that, while today we're talking
6 about the voluntary carbon markets, they aren't the only
7 carbon markets. So, these blue bubbles and the green
8 bubble, in fact, are regulated markets.

9 I'm particularly focused on the two yellow
10 bubbles, and I have broken them into two parts. One is
11 the Chicago Climate Exchange and the other is what I call
12 the over-the-counter voluntary carbon market. The
13 Chicago Climate Exchange is sort of an organized bubble
14 amidst the chaos of the over-the-counter voluntary carbon
15 market. And the Chicago Climate Exchange is a cap and
16 trade system. Members commit voluntarily to reduce their
17 emissions at 6 percent by 2010. And then they can trade
18 emissions or they can also purchase offsets in order to
19 reach their goals.

20 But those entities define offsets who are not
21 members of the Chicago Climate Exchange, such as
22 individuals and a range of institutions purchasing carbon
23 offsets, are doing this through sort of the more chaotic
24 over-the-counter voluntary carbon markets, and these
25 markets don't have a formal exchange and they simply

1 consist of a scattered range of transactions. Because
2 there's not a cap and trade system, they're all offset
3 credits. A lot of people have called this market the
4 wild west or have considered it a buyer beware market.
5 So, a lot of negative plans we'll be talking about today
6 are in this context.

7 On the flip side, there's some exciting aspects
8 of this market as well. It represents the consumer
9 demand for carbon offsets, sort of consumers looking so
10 how can they maximize their emissions reduction. It also
11 is an arena where sort of new projects can get financed
12 that might not be able to jump through the hurdles of the
13 regulatory markets, sort of the bureaucratic hurdles.
14 Then it's also a place where maybe smaller projects that
15 can't afford to jump through bureaucratic hurdles can be
16 financed.

17 This market has been so chaotic that no one
18 really knew exactly even how big this market was, the
19 over-the-counter market or what were the range of project
20 types. So, last year, Ecosystem Marketplace decided to
21 start tracking this market and we did this by trying to
22 survey as many suppliers as we could find and who would
23 help us by sharing information in the marketplace. And
24 what we found is, not surprisingly, the market grew
25 rapidly between 2005 and 2006. So, the green and the

1 blue are, in fact, the OTC market and the bronze is the
2 CC market.

3 Another interesting part about the market,
4 that's why I broke out the green and blue, is that a huge
5 percent of the OTC market historically was conservation
6 organizations using carbon finance for land conservation,
7 so NOGS. And you can see as the markets matured in the
8 past several years, it's also become more diversified.

9 Also, if you look at the pre-2002 column,
10 another interesting point is that this market has been
11 robust for far longer than 2002 to 2006. We also just
12 had a column where we asked how many credits have you
13 sold before 2002. That's why this is so large because it
14 represents 2002 and whatever before that. The earliest
15 transaction we found was in 1989.

16 Another interesting point, not surprisingly,
17 the suppliers in this market have continued to grow. So,
18 more and more suppliers are coming into this marketplace
19 each year. And I can guarantee you we don't have the
20 numbers for 2007 yet, but in 2007 there's going to be
21 continual growth of new suppliers. I find new suppliers
22 every week that are selling credits in this marketplace.
23 These suppliers include not only the retailers that you
24 see selling credits on line, but also a host of other
25 different organizations in the supply chain. So, there

1 are project developers who may sell to the retailer,
2 there are brokers who may facilitate that transaction,
3 and then there are organizations I call wholesalers that
4 may work with project developers but only sell in bulk.
5 So, they won't sell to individuals. They only sell to
6 companies or to other retailers.

7 So, we also ask these suppliers how big do you
8 think the market is going to be? So, of course, there's
9 a selection bias here because these are the answers of
10 the suppliers in the marketplace, but all the suppliers,
11 most of them predicted continued growth. So, on average,
12 in the next five years, they thought that it could
13 continue to multiply to about four times its size. But
14 with this continued growth and all this excitement around
15 the marketplace, again, I want to point out just how tiny
16 this carbon offset market is, this voluntary carbon
17 offset is compared to the regulated market.

18 So, with the Chicago Climate Exchange and the
19 OTC together we valued at around \$91 million, which is
20 pretty conservative. But all the regulated markets
21 together were valued in 2006 at over \$30 billion
22 together. So, again, still a very small market in
23 context of the other markets.

24 Another interesting point is that a carbon
25 credit is a commodity that's been created from a wide

1 range of different projects and this can include a
2 forestry project to something like destroying industrial
3 gas to trapping and flaring methane to renewable energy
4 credits to emissions reductions by energy efficiency, to
5 trapping and flaring methane, et cetera. So, there's a
6 range of different projects out there that are converting
7 themselves to carbon credits.

8 And in this marketplace, in the OTC market, we
9 found that forestry was 37 percent of the credits sold
10 and that industrial gas, which is actually quite cheap,
11 was another major part of the credits sold. And Lori
12 will get more into renewable energy credits, but only in
13 17 percent of this market are actually renewable energy
14 credits advertised and sold as carbon offset credits.

15 On the other side is the Chicago Climate
16 Exchange, and these aren't actually credits sold, they
17 are credits registered. I couldn't get the credits sold
18 from them. But soil carbon is a huge part of the type of
19 credits registered in them, which means it's been -- for
20 something like Note, they said that the carbon has
21 sequestered in the soil. And it will be interesting to
22 see how well the market evolves, how the sort of balance
23 of different project types change.

24 So, who is buying these credits? There's talk
25 about the voluntary market, but in the end, you need a

1 final buyer to make the market happen. Not surprisingly,
2 the suppliers said that 88 percent of their customers
3 were businesses, and most of these businesses were
4 located in the U.S. So, 68 percent of the consumers we
5 were able to track were in the US. So, the U.S. is very
6 important to this voluntary carbon market.

7 We also asked suppliers what they thought their
8 customers cared about when purchasing credits, and a few
9 interesting points came out. One was that the biggest
10 thing was this concept of additionality and the idea that
11 the project would have not happened without the carbon
12 market.

13 Another big issue was that they thought their
14 customers wanted additional environmental and social
15 co-benefits. So, they didn't want a project that just
16 reduced greenhouse gases. They also wanted it to have
17 other co-benefits. So, we called this a demand for
18 charismatic carbon. It's not just a ton of carbon, it's
19 sort of a little more exciting, a little more sexy.

20 Then the fourth point is that they thought
21 their customers really wanted certified credits. I think
22 that this interest on additionality and this interest on
23 certification has become especially large in the past two
24 years as there's been quite a few exposés on this market
25 and quite a few mainstream articles and different

1 organizations focus on some of the problems in this
2 marketplace.

3 Some of the big problems are, one, are these
4 credits additional? Two, could these credits be double
5 counted? How do I know if I haven't sold my credit to
6 one person I'm not selling again to another person? How
7 do I know that I've actually sold one credit and then
8 retired it? And, then, also, how do I know that if I've
9 sold credits from a project, the project has actually
10 produced those credits and there's been no project
11 failure?

12 Another issue has been this idea of are there
13 environmental or social sacrifices due to my emissions
14 reduction project? So, some of these articles have
15 focused on these various issues. Then as suppliers and
16 buyers are seeking to prove the legitimacy of this
17 market, certification has been a big issue in the past
18 two years and a range of certifications have popped out
19 in the marketplace. These are a few of them. It's
20 interesting because the certifications are not only for
21 carbon credits, but some of them are actually for
22 retailers themselves or for products that are making
23 carbon credit claims. So, gold standard in CCB's climate
24 community and biodiversity are some that look at not only
25 the fact that a carbon credit has been reduced, but also

1 that it has social and environmental co-benefits.

2 Other standards, such as a voluntary carbon
3 standard, just want to say that this is a carbon credit
4 and the emissions reduction has been reduced. And last
5 year, in 2006, we found that most retailers actually use
6 their own standards and then the next biggest one was
7 that they use a voluntary carbon standard. I think this
8 will change as standards mature and more people accept
9 them into the market.

10 So, I think standards have blazed the way for
11 sort of one area of legitimacy in the marketplace. I
12 think the next area that's coming up now is this concept
13 of registries. Again, this is really important for
14 double counting. So, when you have a credit, can your
15 credit be put in a bank with a serial number where it's
16 organized and we can watch its transaction happening.
17 And, now, several registries have popped up this year as
18 well. And I won't go through these registries carefully
19 for the sake of time, but another important aspect of the
20 marketplace.

21 So, what is going to happen in the next steps?
22 I think one of the big parts is that there's been
23 continued growth in 2007. I haven't collected the
24 numbers for the OTC market yet for 2007, but I can assure
25 you that the numbers will be at least twice the size as

1 in 2006. And, also, the Chicago Climate Exchange
2 reported that their volumes doubled between 2006 and
3 2007. And because the U.S. is such a big source of
4 demand for this marketplace, a big question in the market
5 is if U.S. regulation comes into place, how will this
6 influence the voluntary carbon markets? Will it even be
7 necessary to have a voluntary carbon market?

8 I think in response to that question there's
9 still a huge number of entities making long-term
10 commitments to purchasing offsets and emissions
11 reductions that probably wouldn't be regulated if
12 regulation came into play. So, the Yahoos, Googles, the
13 Patagonias, et cetera, are all still utilizing offsets.

14 So, there's our introduction, and if have any
15 questions, here is my information.

16 **(Applause.)**

17 MS. HANN: As Loris's setting up, I just want
18 to make a quick announcement. The flashing light in the
19 back of the room is not an alarm and there's no cause for
20 concern, it's just a bad bulb. So, we are working on
21 getting it fixed. Just want to let you know. Thank you.

22 UNIDENTIFIED MALE: We're trying to find a
23 LumaGreen bulb for that.

24 MS. BIRD: So, I'm going to try to give a sort
25 of complimentary overview of renewable energy certificate

1 markets, just as Kate gave us on carbon offset markets.
2 I guess I would just say that REC markets are -- you can
3 consider them a subset of carbon offset markets, but some
4 RECs are also purchased for the environmental and other
5 benefits of renewables so they may not be sold as
6 offsets, and there are other emissions benefits of
7 renewables and other social benefits as well.

8 So, what is a REC? We talked earlier -- one of
9 the speakers mentioned that a REC represents the
10 attributes of renewable energy generation that can have
11 values separate from commodity electricity. So,
12 basically, you can generate electricity from renewable
13 energy sources and that can be sold separately, you can
14 sell the commodity electricity in one place and sell
15 renewable energy attributes somewhere else. There has
16 been some debate about the definition of a REC because
17 some folks would argue that a REC simply represents proof
18 that renewable energy has been generated.

19 RECs are also known by a number of other names,
20 including green tags, renewable energy credits, tradeable
21 renewable energy certificates and so forth.

22 A brief history of how RECs evolved and where
23 they started. Primarily, RECs emerged out of discussions
24 about how to implement renewable energy policies. The
25 first mention of this concept was in the mid-1990s when

1 California was talking about developing a renewable
2 portfolio standard, which was a policy that requires
3 electricity suppliers or utilities to obtain renewable
4 energy for a certain percentage of the electricity that
5 they are providing to their customers.

6 Then, after that, it was also marketed when
7 competitive retail electric markets opened up in the late
8 1990s. There was a product called ReGen that was
9 marketed in Massachusetts that was an upgrade service to
10 electricity service. And then in the California market,
11 as well, this concept emerged. And it also emerged in
12 Europe at about the same time.

13 Why RECs? Why did this emerge? What are the
14 advantages? Basically, this is a mechanism for
15 monetizing the value of the attributes of renewable
16 energy separate from the commodity electricity. It can
17 help eliminate the problems of intermittency. Some
18 renewable energy sources like wind or solar don't operate
19 all the time, the wind has to be blowing for them to be
20 creating electricity. And RECs sort of eliminate that
21 issue that they can be sold separate from the
22 electricity. You don't have to match the consumer's load
23 exactly and so forth. So, it's a lot easier on the
24 renewable energy side to sell that attribute separately.

25 Same thing for transmission constraints.

1 Sometimes to actually get the electricity to the end use
2 consumer you may have to cross several different
3 transmission lines and so forth. Instead of paying the
4 cost to wheel that there, RECs can avoid that issue as
5 well.

6 I guess another benefit is that consumers can
7 support renewable energy even if their supplier or their
8 utility or their electricity supplier doesn't offer a
9 renewable energy option. This is something that any
10 consumer anywhere in the U.S. could purchase online.

11 So, I guess as I've already alluded to, REC
12 markets have emerged, there's basically two types of REC
13 markets, two categories that we've come up with. One is
14 the compliance markets, renewable portfolio standards.
15 These states that have policies that say a certain amount
16 of renewables have to be in the resource portfolio of the
17 utilities or the electricity load serving entities and
18 then voluntary markets are consumers, either businesses
19 or residential consumers, that are voluntarily purchasing
20 renewable energy equivalent to their own electricity
21 consumption. That's a lot of what we're talking about
22 here and that's what I'm going to focus on, but I am
23 going to just give you a real brief overview of the
24 compliance market side as well.

25 This map just show the states. Twenty-five

1 states now and Washington D.C. have these renewable
2 portfolio standard policies in place requiring the
3 utilities to obtain 20 percent of their electricity from
4 renewable sources by 2020 or so forth. All the amounts
5 differ as you can see. But there's been a real increase
6 in interested states in adopting these policies. A lot
7 of states have increased the amount of renewables that
8 have to be obtained in recent years and quite a few
9 states have adopted policies. It's been growing very,
10 very rapidly.

11 And on the voluntary market side, which is
12 really what I'm going to focus on and talk about for the
13 rest of the presentation, that market has also been
14 growing rapidly. Today about 25 percent of U.S.
15 utilities offer a green power program. So, that can
16 either be in regulated markets, you know, your utility
17 might be offering it. In the northeast and some other
18 areas of the country, there's retail competition in
19 electric markets and, so, in some of those states you can
20 either switch providers to purchase green power or --
21 when I use the term "green power" I'm really referring to
22 consumers that are purchasing renewable energy that may
23 be in the form of RECs or it may be in the form of actual
24 electricity bundled with a REC or renewable energy
25 electricity.

1 So, in competitive retail electric markets,
2 consumers, in many cases, have the option to switch to a
3 provider that will offer a green power option or
4 sometimes the default supplier, this is the case in New
5 England, may be teaming with a third party marketer to
6 offer a green power option so that the consumer can have
7 default electricity service and not switch, but they can
8 basically green it up and buy green power.

9 So, all told, more than 50 percent of consumers
10 can purchase green power directly from a utility or
11 electricity provider, and as I mentioned earlier,
12 renewable energy certificate options can be purchased
13 anywhere by all consumers in the U.S. because they can
14 just go online and purchase them from some of the
15 marketers.

16 Green power markets provide support for nearly
17 30 percent of new renewable energy capacity additions.
18 That's new renewables that have been added since 1997.
19 And this market has been growing rapidly at a rate of
20 about 50 percent annually in recent years. And
21 non-residential purchases are increasingly driving the
22 market. In 2006, almost three quarters of all sales were
23 to the non-residential sector, so businesses,
24 universities, government agencies, so forth. And we
25 estimate the size of the market to be 65 to 85 million in

1 2006 based on the green power sales.

2 This slide just gives you some perspective on
3 how -- the voluntary market size is the red wedge and
4 compliance markets and the blue wedge is how much
5 renewable energy has been used or is going to be needed
6 to meet current policies that are in place, these current
7 RPS policies that I talked about.

8 This slide just shows you that in most states
9 there are some utilities or power suppliers that are
10 offering green power options to consumers. You can see
11 in the upper Midwest there are some states with big,
12 large numbers like Minnesota and Iowa. In some cases,
13 states actually require the utilities to offer a green
14 power option to the consumers.

15 We've collected data from marketers and utility
16 for a number of years about the size of this market.
17 This slide is in millions of kilowatt hours annually, so
18 the sales in 2006 were about 12 billion-kilowatt hours.
19 And as I said earlier, the market's been growing at a
20 rate of about 50 percent annually.

21 I guess I'll just mention, too, that this data,
22 we do collect this. The utilities and marketers report
23 this voluntarily to us. There's no requirement that they
24 do that. And I actually do think that, particularly in
25 '06, I think that this is really an underestimate because

1 not all of the suppliers provide was this information and
2 we can only fill in with the information that we have.
3 But I think we are actually missing some here.

4 The U.S. Environmental Protection Agency has a
5 program, the Green Power Partnership. You're going to
6 hear from some folks from there later today, but this
7 just gives you kind of a flavor. They work with a lot of
8 big companies that are purchasing green power and this is
9 just the list of top 20. They do issue these lists.
10 There's probably a new one that just came out -- did it
11 come out yet? The next will come out in a few weeks.
12 They have been issuing these about quarterly.

13 So, it just gives you some kind of flavor of
14 the types of companies, and I think over the last couple
15 of years we have really seen this go a bit more
16 mainstream and some of the companies that are purchasing
17 are not the traditional ones that are always doing all
18 the environmentally friendly activities. So, it's been
19 kind of interesting to watch that. Also, I think it's
20 spurred a lot of competition in that the companies are
21 trying to outdo themselves to move up on the list.

22 Some of the companies that are purchasing green
23 power or renewable energy actually advertise that either
24 on their products, you can see the Silk soy milk, they
25 actually have a picture of a wind turbine on here, some

1 show the Green-e logo. The Green-e Program is a
2 certification program in the U.S. and, so, they're
3 showing that their product was made or distributed with
4 Green-e certified renewable energy.

5 Other companies or utilities are working with
6 companies to help co-market their programs, so we have
7 been seeing a lot of that. Sacramento Municipal Utility
8 District worked with Starbucks to promote their green
9 power option, so forth. Some of these other things. We
10 have seen a lot more of that kind of activity in recent
11 years.

12 Just real briefly, I provided some information
13 on REC prices here. These are compliance market REC
14 prices so RPS markets, which are pretty different from
15 voluntary markets because each state has their own rules
16 about what renewable energy types are eligible to meet
17 their RPS, where they have to be generated, what
18 geographic region they have to come from. And if states
19 have very strict and restrictive policies in place, the
20 price can be a lot higher if there are supply shortages
21 or trouble meeting those requirements.

22 So, we have seen in New England, in particular,
23 some really high prices. These are in dollars per
24 megawatt hour. So, \$50 a megawatt hour, 5 cents a
25 kilowatt hour in Connecticut, for instance, or

1 Massachusetts. And then in other states, like Texas has
2 had much lower prices over time. So, there's a lot of
3 variability there, depending on the supply of the
4 renewables in the region and the requirements of the RPS.

5 This is some information on wholesale voluntary
6 market REC prices. So, this is not the price to the end
7 use consumer per se, this will give you an indication
8 maybe closer to what a very large business purchase would
9 be or what the utility is purchasing it from. End use
10 consumer, like a residential consumer, those prices are
11 typically 1 to 2 and a half cents per kilowatt hour. You
12 can see these prices are in dollars per megawatt hour, so
13 they're much less. So, 0.1 to 1 cent a kilowatt hour
14 here.

15 I guess I would just say that this data came
16 from Evolution Markets, which is a broker. It's actually
17 a pretty small subset of the actual transactions out
18 there. But I think it gives us some indication of what
19 the market prices are like.

20 I kind of talked about some of the factors that
21 affect market prices, so I think I'm going to skip over
22 this, but you can read it for folks that have copies of
23 this or it's online.

24 I just want to say a couple of things about
25 verification and certification of RECs. This market,

1 it's still a very young market, but it has grown over
2 time and there's been some improvement in the
3 verification and certification programs during that time.

4 Now, this map shows you where tracking systems
5 are in place to track RECs. Most of these have been
6 driven by state renewable portfolio standards because a
7 lot of the state policies use RECs to track compliance
8 with the policy. So, the REC tracking systems track the
9 ownership of the REC over time, and once it's used for
10 compliance with the policy, the RPS policy, it will be
11 retired, or if it's sold into the voluntary market, it
12 will be retired. So, it helps with double counting.

13 So, you can see most of the U.S. is now covered
14 by the REC tracking systems. A couple of them just came
15 online within the last six months. The New York tracking
16 system in blue is supposed to come online maybe next
17 year. And then in the southeast, all those white states
18 down there, there is no tracking system available at this
19 time for those states, although there may be in the near
20 future.

21 I have just one minute left. So, I'm almost
22 done here. I guess I'd also just say that there are
23 certification programs out there that have been active
24 for a number of years and they conduct audits and ensure
25 that the RECs that are sold to consumers match those --

1 in terms of the quantity that the consumer is purchasing,
2 they do audits to make sure that all that matches up.

3 Green-e has released some numbers about the
4 volume that they have been certifying and it was about 10
5 billion-kilowatt hours in 2006. So, it was about 80
6 percent of our estimate of the entire market size.

7 Just a couple of issues and challenges to wrap
8 up. This is my last slide. What are the issues? As I
9 mentioned, REC tracking systems are not operational in
10 all regions of the country yet. There's a lot of debate
11 over additionality of RECs. I think we'll probably get
12 into this in panels coming forward. Do REC purchases
13 drive new renewable projects? There's been a lot of
14 discussion of that in the last year or two.

15 The definition of a REC, are all attributes
16 included? Can renewable projects sell both a REC and a
17 greenhouse gas offset? Is there a potential for double
18 counting there or how do we make sure that there's no
19 double counting? And then will RECs or renewable energy
20 be able to convey the greenhouse gas benefits of the
21 renewable energy facility? The fact that it doesn't have
22 any greenhouse gas emissions under carbon regulation, and
23 there's a lot of details about carbon policy design and
24 it depends on the policy design whether they will be able
25 to do that.

1 I guess just, lastly, difficulty in
2 communicating the concept of a REC in simple advertising
3 language to retail customers. I think the industry has
4 evolved with that over time.

5 So, that's it. Thank you very much.

6 **(Applause.)**

7 MS. HANN: While Rebecca's setting up, I just
8 wanted to make another announcement. If you have any
9 questions for this panel, can you please complete the
10 question cards and then someone will come around to
11 collect them. We will try our best to ask these
12 questions at the end of the panel. Thank you.

13 MS. TUSHNET: And, now, for something
14 completely different. I was asked here to talk about the
15 First Amendment and the relationship of commercial speech
16 to carbon offsets and RECs. So, I'd like to address two
17 questions, what is commercial speech and what about that
18 speech may government permissibly regulate under the
19 First Amendment?

20 For our purposes, speech about the use of these
21 things, carbon offsets and RECs and related
22 environmentally friendly -- I don't know whether I want
23 to call them advertising gimmicks for my purposes or
24 actual practices. We'll call them practices, that's
25 fine. It's commercial speech. And that means that the

1 government can regulate it to avoid falsity or
2 misleadingness. But as we've already heard, the key
3 question is not necessarily misleadingness, although
4 there are, of course, compliance issues, but
5 confusingness. And that is a harder question, to what
6 extent the government can regulate to prevent people from
7 being confused. And maybe there's not even a difference
8 between being confused and being misled. If we're just
9 concentrating on consumer outcomes, consumers who are
10 confused may end up making decisions just as if they were
11 misled.

12 But start with what commercial speech isn't.
13 Al Gore's "An Inconvenient Truth" isn't commercial speech
14 and if Al Gore is speaking just for himself and with no
15 commercial relationship to an organization's sake, for
16 example, Terrapass says, Terrapass is great, you should
17 use it, that's fully protected speech. And if he's
18 wrong, it's very hard to get him to shut up. If
19 Terrapass, however, says the same thing, that's
20 commercial speech.

21 So, a product whose labeling says, your
22 purchase fights global warming, that's subject to
23 challenge for untruth by competitors, by consumers, and
24 by government regulators. And I don't want to limit my
25 remarks here to what the FTC has done or is in any way

1 likely to do because, as a business matter, if you're
2 thinking about adopting these techniques or advertising
3 your use of them, you do want to consider all the
4 potential sources of challenge.

5 So, in fact, the most important case for these
6 purposes is the case involving a consumer in California
7 who sued Nike for making a bunch of statements about its
8 labor practices under California's false advertising law.
9 Basically, Nike came under sustained and coordinated
10 challenge for its labor practices involving
11 subcontractors in developing countries. It responded
12 with a comprehensive PR campaign, including letters to
13 the editor, ads in major papers, letters to college
14 presidents and athletic departments. Its PR people gave
15 interviews to newspaper reporters and so on. And none of
16 this or very little of this was conventional advertising.
17 I want to pause here to show you parts of Nike's
18 campaign.

19 So, this is the text. This is the full text of
20 the full page ad. So, there's a huge amount of white
21 space. Please don't try and read it. The point is not
22 what it said, the point is that this was a very emotional
23 and sort of affect laden campaign designed to say that
24 Nike cares, that Nike takes these issues seriously and is
25 attempting to address them, and so on and so forth. And

1 then Nike also sent a letter to college presidents and
2 athletic directors saying pretty much the same thing.

3 The consumer sued saying that these statements
4 which basically had to do with labor conditions saying,
5 you know, people mostly get paid at our factories and
6 there aren't that many rapes and often they're fed, the
7 consumers said this wasn't true, that Nike was distorting
8 the conditions which were must worse than Nike admitted.

9 And Nike's defense was that this was fully
10 protected speech under the First Amendment because among
11 the things Nike was saying was that although it wasn't
12 doing a perfect job, it was doing a lot better than the
13 other employers or the other alternatives that the
14 workers had. And its position was that in a time of
15 globalization it was better to be involved in these
16 things, to be trying than to not be there at all. And
17 that that is actually a political and economic message of
18 great importance that should be fully protected speech
19 just as much as "An Inconvenient Truth" is fully
20 protected speech. And, furthermore, you can't make that
21 kind of argument without saying specific things about
22 what your labor practices are.

23 And I think the analogy here to things like
24 carbon offsets is quite strong. So, we just saw the
25 kinds of things that are now on the sides of, say, Silk

1 soy milk. That is an argument about how one ought to
2 produce goods and that actually has strong political and
3 economic implications, even though it's on the side of a
4 milk carton. The argument would go that that is fully
5 protected speech under the First Amendment.

6 Now, the California Supreme Court disagreed and
7 said this is commercial speech. We can evaluate whether
8 it's true or false, at least the factual parts of it.
9 The consumer can't challenge the statement that
10 globalization is good or that it's important to be
11 involved with labor practices rather than staying away.
12 But if Nike says specific things about its labor
13 practices like, on average, we pay people a certain
14 amount per hour, that's a factual claim that can be
15 regulated even though it fits into this larger context.

16 So, the California Supreme Court said what we
17 look at is whether speech comes from a commercial
18 speaker, whether it's directed to a commercial audience,
19 and university presidents and athletic directors are an
20 audience because they decide whether to have contracts
21 with Nike; likewise, if you advertise in a paper, you're
22 trying to reach a commercial audience, the people who
23 might buy Nike's products. There are representations of
24 fact about Nike's own business operations. And I want to
25 also make the point here that what Nike was talking about

1 was the operations of its subcontractors.

2 So, traditionally, people say that commercial
3 speech is easier to regulate than political speech
4 because commercial speech is verifiable by the speaker.
5 That's not always true in the sense that you may be
6 buying inputs from someone else. Here, Nike was talking
7 about the inputs it got. It was somewhat able to monitor
8 its subcontractors, but they were subcontractors, they
9 were independent entities and Nike didn't have control.
10 But, nonetheless, the California Supreme Court said,
11 you're responsible for what you say about what those
12 subcontractors do, and that is important here, given the
13 structure of the markets we're looking at where most of
14 the people who are going to be making ultimate claims to
15 the consumer are probably buying these as inputs from
16 someone else.

17 It's still commercial speech even if you don't
18 produce the input yourself as long as you have a
19 commercial motive for talking about what you have
20 purchased. Likewise, its commercial speech because Nike
21 made the speech for the purpose of selling products.
22 This is important insofar as not all of the speech we're
23 talking about here will appear on the side of a milk
24 carton where it's pretty obvious that that's an
25 advertising message. If you put general image

1 advertising in the paper or wherever you think it's
2 likely to reach consumers that's still likely to be
3 commercial speech. In fact, it's almost certain to be
4 commercial speech under the standard because you are
5 trying to convince people ultimately to buy your
6 products. And, in fact, why else would Nike say these
7 things?

8 Under the California Supreme Court standard,
9 almost everything a corporation says is going to be
10 commercial speech. The U.S. Supreme Court took the case
11 but, ultimately, didn't decide it and left the California
12 decision intact. It's not clear that the Supreme Court
13 would have agreed that all this stuff, including these
14 letters, was commercial speech, but it's very hard to see
15 where the California Supreme Court went wrong in my
16 opinion. If these are factual representations, they
17 pretty clearly are made by Nike to sell products, and if
18 we want to have regulation of commercial speech at all I
19 think we have to include speech like this.

20 Now, some people will say we shouldn't have
21 extra regulation of commercial speech, but the FTC is set
22 up in part on the assumption that the Supreme Court's
23 doctrine allowing extra regulation of commercial speech
24 is true, is correct, and is the right way to go.

25 So, quickly, assuming that most of the speech

1 we're talking about is commercial, what counts under the
2 First Amendment as a representation of fact that could be
3 false and misleading? This is important because
4 commercial speech doctrine doesn't say commercial speech
5 can be regulated across the board. In past years, the
6 U.S. Supreme Court has been more aggressive about saying
7 it's very hard to regulate truthful commercial speech.
8 It's very easy to regulate false and misleading
9 commercial speech, but it's much harder if you're trying
10 to regulate it just because you don't like it, say
11 cigarette ads. This, obviously, creates a huge premium
12 on deciding the difference between true and misleading.

13 So, what about the phrase "good for the
14 environment?" Can it be false? I mean, obviously, it
15 can be false in some ways if the supplier is committing
16 fraud, if the product is made of lead or toxic materials,
17 then yes, it can be false. But that's actually not a
18 particularly interesting question.

19 The troubling questions are, what if your
20 calculations or assumptions about environmental
21 friendliness are wrong even if you made them in good
22 faith? What if the FTC sets a standard for something and
23 you want to use another methodology to calculate your
24 environmental impact because you think that that standard
25 is better in complete good faith? If the FTC standard is

1 widely used, your standard could still be misleading
2 under current law.

3 And a good example about this is miles per
4 gallon where consumers really use the single number, the
5 two numbers they get in order to make comparisons. What
6 consumers really care about is they don't know what the
7 methodology is. They believe that there is a methodology
8 and that there is a single one that allows them to make
9 decisions as between products in the marketplace, and
10 that is the key challenge.

11 What's really underdeveloped in First Amendment
12 doctrine is the extent to which the government can say
13 these are the standards because it's important to
14 consumers to be able to compare. Right now, the case law
15 is, I would say, very confused about the difference
16 between confusing consumers and misleading them. The
17 Supreme Court has made most of its attempts to say, if
18 you can clarify something, then the government can only
19 require you to clarify it rather than suppress the
20 message entirely.

21 But I think it's pretty much an open question,
22 the extent to which the government is able to set
23 standards. Nobody has actually challenged the miles per
24 gallon standards on First Amendment rounds. There was a
25 challenge to the tar standards in the past for cigarettes

1 where a cigarette manufacturer wanted to calculate tar
2 differently. They actually had a plausible scientific
3 argument that the governing standards for calculating tar
4 were mistaken giving the way people actually smoke
5 cigarettes. But the Court still accepted the idea that
6 it was misleading to use a different standard because of
7 consumer expectations.

8 And, again, I think this is going to be very
9 important in this area because we don't expect consumers
10 to become experts on how all these things are calculated.
11 That's what we're here for. The challenge is to convert
12 the specialized information into something that consumers
13 can reasonably and rationally use when they're making
14 decisions on limited information. That is going to get
15 rid of a lot of nuance. There is no doubt that a
16 comprehensible regulation is going to smooth off a lot of
17 edges and make mistakes in small. I believe, however,
18 that the First Amendment allows the government to set
19 standards that overall improve consumer decision making,
20 even if that means that some of the maximum possible
21 information for the maximum informed consumer is lost.

22 But this is really actually a big open field in
23 First Amendment law because, to date, the Supreme Court
24 has not done very much in the field of consumer
25 protection on this issue of understanding specific

1 messages.

2 Thank you. I'd be happy to talk further if you
3 have questions.

4 **(Applause.)**

5 MS. HANN: Alan.

6 MR. LEVY: I must begin by confessing that I
7 know very little about energy saving techniques or about
8 how marketing carbon offsets is likely to work. What I
9 do know a little about is product labeling and how
10 information disclosures on product labels are understood
11 and used by consumers. My task today is to introduce
12 some basic axioms of product marketing effects on
13 consumers, gleaned mostly from my experience with food
14 labeling in the hope that you can see how these
15 principles might apply to your circumstances and how they
16 might help you design and implement better programs.

17 The most striking characteristic of these kinds
18 of claims we're talking about today as mentioned
19 initially by the Commissioner is that they are pretty
20 strange product claims. Traditional product claims are
21 about product use characteristics from the perspective of
22 an individual user. Foods, for example, are marketed on
23 attributes like taste, cost, convenience and health
24 benefits. Such attributes follow from the experience of
25 using the product and are more or less verifiable from

1 the user's own experience or from the collective
2 experience of the population of users, the latter being a
3 matter of scientific study.

4 Carbon footprint claims, on the other hand, are
5 not really about product usage characteristics at all.
6 They can't be verified by the consumer's experience with
7 the product. They're really an extreme form of what we
8 call credence claims where consumers have little or no
9 ability to verify the claim based on their own experience
10 and mainly have to rely on trust, a commodity in short
11 supply among American consumers.

12 Carbon footprint claims are even stranger than
13 the environmental claims covered by the FTC Green Guides
14 like biodegradability or percent recycled content. These
15 are typically about use characteristics of the product
16 with public policy implications for a larger community.
17 These kinds of claims at least seem to be objectively
18 verifiable based on science and product testing.

19 Claims about offsetting one's carbon footprint
20 or being carbon neutral by contrast are claims about the
21 behavior of the product maker or service provider and,
22 for the most part, can't be evaluated by product testing.
23 At their most concrete they seem to be about the
24 manufacturing processes used to produce the product.
25 But, mostly, they are about someone's participation in

1 something called a carbon offset market. Participation
2 in a carbon offset market is itself being sold as a
3 strange hybrid kind of product or service.

4 Besides being an extreme form of credence claim
5 that can't be verified by experience, claims about carbon
6 footprints have another distinctive characteristic. Few
7 people know very much about what they are and what
8 they're for. The existence of this workshop testifies to
9 there being some awareness of carbon emission markets
10 among the general public. But I think it is quite likely
11 that many people are like myself and they have only the
12 vaguest notion of what a carbon footprint is. They might
13 agree that driving a Hummer is probably bad for your
14 carbon footprint, but they have little idea about what a
15 carbon emission set aside market is and they have no clue
16 about how to think about the many issues that arise and
17 how to interpret and substantiate marketing claims made
18 about carbon neutrality or offset.

19 Even more important than this widespread lack
20 of knowledge is the fact consumers are very likely to
21 agree that they know very little about the background for
22 any marketing claims they might see about these topics.
23 These two characteristics, not being verifiable and
24 little prior knowledge or confidence about how to
25 interpret applied specific marketing claims, present

1 difficult practical challenges for carbon footprint
2 marketing.

3 It's actually hard to avoid the conclusion that
4 buying a carbon neutral product is more like a symbolic
5 act than it is an act of consumption. There's a definite
6 public policy context, but a carbon neutral product is
7 really nothing but the claim that it is carbon neutral
8 and the credibility of the claim is essentially a matter
9 of faith. We see examples of marketing of symbolic acts
10 in everyday life. Voting comes to mind as a relevant
11 and shining example of a symbolic act. There are
12 probably important lessons to be learned from political
13 campaigning and public policy advocacy about how to
14 market carbon emission offsets. But I am not an expert
15 about political campaigning and, today, I want to
16 consider the marketing challenges of talking about carbon
17 emission offsets in the context of selling products.

18 Let me turn now to Marketing 101. First of
19 all, it is important to understand that from the consumer
20 point of view the primary utility of label information in
21 most product advertising is intended to be informative
22 rather than entertaining is that it is a convenient
23 shortcut to conducting arduous information search about
24 product characteristics. People read labels in
25 advertising because they are interested in buying some

1 kind of product and they want to make a good decision.

2 However, serious information search to inform
3 these decisions is costly. Information search takes time
4 and effort, appropriate information is not always
5 available, and when it exists, it may be difficult to
6 find. Even when consumers can find relevant information,
7 it is often hard to understand and use. Product labeling
8 and advertising are fundamentally devices to reduce all
9 these burdensome information costs on consumers.
10 Effective marketing has to serve and be seen by consumers
11 as serving this purpose above all else.

12 There are several important implications of
13 this basic truth. First, because the media application
14 is to purchase decisions, advertising and labeling are
15 usually seen by consumers to be about a specific product
16 and not about a product category or about generic product
17 characteristics. Labels are not billboards where useful
18 information can be displayed outside of a practical
19 purchase context. Advertising is more flexible and
20 sometimes advertising can try to frame itself as being
21 broadly informative, unattached from any purchase
22 context.

23 We see this in certain kinds of advocacy
24 advertising that tap the benefits of a certain kind of
25 product like organic foods. But it is generally true

1 that consumers do not easily assume that what is said in
2 product advertising or on a product label is
3 intrinsically educational. Consumers are not students
4 who want to understand general principles or experts who
5 want to know the details of scoring algorithms for the
6 strength of scientific evidence.

7 Labeling and advertising is not seen as a place
8 to learn general truths that can be applied elsewhere.
9 Consumers, for example, do not think of food labels as
10 good places to learn about nutrition. They are quite
11 sensitive about the space and time limitations inherent
12 in reading food labels and find it insulting to imply
13 that such a constrained information source should be
14 considered a learning opportunity for them. They're even
15 less sanguine about being well educated by advertisers.

16 Second, what consumers are looking for to
17 reduce the burden of information search is new and
18 relevant information. The best way to endear yourself to
19 consumers trying to make purchase decisions in the most
20 effective marketing is to tell them something relevant
21 about a product they don't already know. Product
22 specific information is an important category of new
23 information because information about unfamiliar products
24 is, by definition, new information. What is considered
25 relevant information usually depends on your personal

1 values and your needs.

2 The point to be stressed here is that what is
3 seen to be new and relevant information depends most of
4 all on consumer prior knowledge and product experience.

5 Third, and perhaps the most important
6 consequence of the information search saving nature of
7 product labeling and informative advertising, is that
8 consumers do not necessarily assume that information in
9 labeling and advertising is reliable. But they have to
10 think it is reliable in order for it to be useful to
11 them. They are exquisitely aware of the commercial
12 purpose of labeling and advertising which is to influence
13 them to make a purchase over and above any information
14 value labeling and advertising they have, and they are
15 wary and often savvy about the myriad ways they can be
16 misled.

17 As a consequence, effective labeling and
18 information advertising has to pass a tacit legitimacy
19 test. It has to be seen as plausible, consistent with
20 what they already know, intended to be helpful and not
21 manipulative before consumers will accept the help it
22 promises in meeting their information search needs. It
23 is not as if consumers make a careful calculated
24 assessment of the truth value and good intent of every
25 statement on a product label or an ad. The point, after

1 all, is to save time and effort. They do not think of
2 themselves as scientists or regulators, but they are
3 reflexively critical, sensitive discrepancies from what
4 they already know and believe. They don't want to be
5 fooled by their own desire to save themselves time and
6 effort. This goes a long way to explain why product
7 manufacturers go to such effort to cultivate a positive
8 brand identity.

9 For consumers, a positive brand identity is a
10 widely used shortcut that enables products to pass the
11 reflexive legitimacy test consumers normally apply to
12 marketing claims without triggering too much thinking
13 about the details on their part.

14 A key point I want to emphasize here today is
15 the essential role played by prior knowledge in
16 determining how consumers respond to marketing claims.
17 Effective marketing has to be based on a detailed
18 understanding of consumer knowledge about the issues that
19 are supposed to be informed by product information. All
20 marketing claims are implied claims in the sense that
21 they start from and rely on what consumers already know.

22 Since I do not presume to have a deep
23 understanding of consumer problems in this area, I
24 hesitate to make specific recommendations, but I feel
25 quite comfortable in saying that identifying the state of

1 consumer knowledge, whether through surveys or
2 qualitative research and testing, whether various
3 possible marketing approaches are more or less congenial
4 with the current state of consumer knowledge, is the key
5 to developing an effective approach for marketing
6 products in this area.

7 Because few consumers are likely to know about
8 how carbon emission set aside markets work and, yet,
9 consumers have to feel comfortable about the legitimacy
10 of marketing claims, marketers of carbon neutral and
11 carbon footprint claims are likely to have to initially
12 target those population segments who are already well-
13 informed and more interested in the issues. Consumers
14 have to feel they know what you are talking about before
15 they are likely to accept credence claims.

16 Marketers will primarily have to use
17 informative advertising and labeling to reach consumers
18 because low knowledge levels and high consumer skepticism
19 of credence claims will tend to reduce the effectiveness
20 of advertising seen as frivolous or entertaining. There
21 is little hope in developing a mass market for carbon
22 neutral or carbon footprint products until knowledge
23 levels in the population are much higher than they are
24 today.

25 Markets based on credence claims, the dietary

1 supplement market comes to mind, often specialize in
2 providing detailed information to consumers, often in
3 venues like Prevention Magazine that are not directly
4 associated with product marketing. Both to raise
5 population knowledge levels, facilitate acceptance of
6 their marketing claims and widen the potential customer
7 base.

8 Marketers of carbon neutral and carbon
9 footprint claims will face the same challenge. Yet
10 marketing is quite handicapped in trying to raise
11 population knowledge levels. Most consumers prefer to
12 learn about matters of science, technology and public
13 policy from sources seen as objective and without
14 commercial interest. News coverage and what consumers
15 hear from Oprah are principal sources of information for
16 the general public.

17 Fortunately, for marketers a large category of
18 news is about what is happening in the marketplace.
19 Marketers of carbon footprint products need to promote
20 stories that will make favorable news probably more than
21 they need to do any other kind of traditional marketing.

22 The last point I want to make about the nature
23 of effective marketing that applies quite directly to
24 your enterprise is that consumers make use of several
25 rules of thumb to separate helpful marketing that solves

1 their information search problem from promotional fluff
2 that serves commercial purposes.

3 The first is that they are keen observers of
4 the marketplace. When claims are ubiquitous in the
5 marketplace, consumers tend to be confident that they
6 have been vetted efficiently to be trusted without
7 engaging in further vending on their own. There is
8 nothing more reassuring about the legitimacy of a claim
9 than the fact that everyone else takes it seriously.

10 Another important cue is that when marketing
11 uses the same terms in a similar system of presentation
12 or format to convey information, it signals to consumers
13 that there is a consensus or maybe even a supervising
14 entity involved that can reign in the promotional
15 excesses of individual consumers. The consistent style
16 and format in the nutrition facts panels is one of its
17 greatest strengths. The importance of there appearing to
18 be an underlying consensus or a supervising entity behind
19 marketing claims explains why the demand for the FTC
20 Green Guides arose as much from industry as it did from
21 consumer advocates.

22 Consumers are greatly reassured by the
23 appearance of consensus in the marketplace. Though they
24 are not likely to care that much about whether it's due
25 to regulation, scientific consensus or voluntary

1 self-regulation by marketers.

2 The reverse is also true. Lack of consensus
3 and inconsistent marketing claims in terms of substance
4 format and presentation signals that there may be
5 ulterior motives at work and heightens the scrutiny that
6 all marketing is likely to get. It is not unlike the
7 phenomena observed by economists where bad money drives
8 out good money. Consumers are much more likely to
9 discount all marketing if there are inconsistent and
10 confusing claims being made in the market place. It is
11 hard to avoid the critique of being self-serving when
12 marketing for one product contradicts the marketing for
13 another.

14 In a world where marketing claims are likely to
15 be subjected to critics from experts, competitors and
16 consumer advocates, it's hard to see how effective
17 marketing can be done without giving the impression that
18 it is based on common assumptions and common definitions.
19 I'll end there because I'm over.

20 **(Applause.)**

21 MS. HANN: Now, we have some time for questions
22 for the panelists. The first is for Lori Bird. One of
23 the issues with RECs, renewable energy certificates, is
24 they are not tested for additionality. A way to address
25 this, as a buyer, would be to buy RECs out of a scarce

1 RPS or renewable portfolio standard market. So, this
2 questioner has two questions for you.

3 First, is this currently possible? And if yes,
4 to what extent are compliance RECs sold in the voluntary
5 market?

6 MR. NEWSOME: Lori, in addition to that
7 question, if you could just give a brief -- you mentioned
8 additionality for RECs, if you could just give us a brief
9 overview of what that means.

10 MS. BIRD: The concept is, well, if you're
11 buying RECs, are you actually supporting the development
12 of new renewable energy sources or is it just coming from
13 facilities that would have come online anyway or are
14 already operating that might be cost effective? So,
15 there's been quite a bit of debate about this in the last
16 couple of years.

17 Well, first of all, there is some standard, at
18 least the Green-e standard, does require an additionality
19 test in the sense that they don't certify any renewable
20 energy that would be used for an RPS policy. So, if it's
21 used for compliance with an RPS, it cannot be again sold
22 to consumers to get Green-e certification. So, there is
23 that additionality test. The EPA Green Power Partnership
24 also has that requirement. So, the market generally --
25 and I think that's really the case, that there's very

1 little double counting in that sense that occurs
2 currently.

3 The new Green-e climate, I think we're going to
4 hear more about that later. That new standard that's
5 just emerging does include some additional additionality
6 tests, pardon my use of those words. But there are some
7 performance-based additionality tests that are in there
8 as well for RECs that would be used as offsets.

9 So, that actually is emerging, there's a lot of
10 discussion about how to do that for RECs that are used
11 for offset purposes. But as I said, there has been this
12 additionality between RECs that are used for policy and
13 those that are used to supply voluntary markets for quite
14 some time and the market pretty much operates that way.

15 What was the other part of the question? Oh,
16 whether you can purchase a REC from an RPS market and
17 basically tie that up. Yes, that certainly can occur. I
18 think the issue there is that they're probably going to
19 be higher-priced. The issue is, well, can you buy a REC
20 that's eligible for RPS compliance? There's a lot of
21 RECs that come out of Texas, but they have basically a
22 surplus of RECs available and those are pretty low-cost.
23 There's a lot of renewable energy generation in Texas
24 because there's good wind resource there, and a lot of
25 that is used to supply the voluntary market.

1 I guess really the question is, well, can you
2 buy RECs from a market that's more constrained because
3 there had been, in the northeast in particular, some of
4 the RPS policies in place there are very stringent. The
5 states haven't necessarily been able to even meet their
6 RPS, and if you buy a REC from that region, it would
7 certainly be driving new renewables. It's just going to
8 cost more. But that's certainly available, it's already
9 happening, and consumers can do that, you just have to
10 find a marketer that's actually selling that.

11 MS. HANN: Great, thank you. Our next question
12 is for Kate. Here is the question. Can you please tell
13 us a bit about the companies selling these products --
14 and I assume they mean carbon offset products -- in terms
15 of profit versus non-profit? Are individuals making
16 heaps of money off of these products? What's the best
17 source of this type of information for a consumer?

18 MS. HAMILTON: So, there are both non-profits
19 and for-profits selling credits into the marketplace.
20 And I don't think that it necessarily means that a for-
21 profit is making more money or buying a cheaper credit
22 and a non-profit is giving you a better deal than a for-
23 profit. I think that in general the non-profit sometimes
24 focus on more specific project types, the sort of
25 charismatic carbon, a lot of the non-profits are doing

1 forestry, but that's not even completely true. So, it's
2 a really interesting angle in this market that both
3 non-profits and for-profits are selling.

4 And another interesting aspect of those is that
5 sometimes with a non-profit you can get a tax deduction
6 if you buy it, whereas with a for-profit you can't. So,
7 right now, for consumers, that's something interesting to
8 look at. I think as the market develops that will be
9 something interesting coming out since what that
10 influences is final price.

11 The second one is, are they making heaps of
12 money?

13 MS. HANN: Yes, that's right.

14 MS. HAMILTON: I don't know if they're making
15 heaps of money. I think that we were able to track
16 market prices up the value chain. So, the average price
17 for a project developer was significantly lower than --
18 I think around \$3, I don't have it off the top of my head
19 -- was significantly lower than the average selling price
20 from a broker versus the average selling price of a
21 wholesaler versus the average selling price of a
22 retailer, which was about \$8. Then the average in total
23 was around \$4. So, if you go up the supply chain you are
24 looking at higher prices. You're also looking at the
25 credits have been screened in each of these steps. So,

1 there are potentially benefits for the final consumers.

2 But I have seen very few open books from
3 retailers saying this is how much we spent to do the
4 project, this is how much money we profited, and this is
5 what we're selling it to you at.

6 MS. HANN: Great. Thank you, Kate. And I
7 have a question for Rebecca. You noted that the courts
8 are moving towards a quote, "clarify if you can," end
9 quote, standard rather than suppressing commercial
10 speech. Can you please give an example of this approach?

11 MS. TUSHNET: Actually, the Supreme Court has
12 done this most with lawyer advertising, I think, because
13 it feels fairly confident in assessing lawyer marketing
14 messages since they're all lawyers. I actually think
15 this is a mistake since they're lawyers, not consumers of
16 lawyer services, but this is their belief anyway. So,
17 the cases are about whether lawyers can advertise
18 themselves as specialists or not. And the ruling is that
19 saying that you're certified say in some particular
20 specialty is not inherently misleading, so if you can
21 clarify exactly what that means, you can say it, even if
22 the bar would prefer not to allow you to advertise that
23 specialty at all.

24 MS. HANN: Great. Thank you, Rebecca. I have
25 a question for Alan. Alan, you mentioned that there's an

1 information disconnect or just lack of information for
2 consumers. Could you give a sense of what kind of
3 information in general consumers would need to obtain
4 about a new product in order to pass the legitimacy
5 screen and, therefore, feel that these products are
6 actually credible?

7 MR. LEVY: This is why I think you have to do
8 consumer research and you have to identify what the
9 current state of understanding and knowledge is because
10 I'm pretty positive that as consumers learn more about
11 these markets, one of the important effects is that new
12 issues are going to be raised in their minds about the
13 legitimacy of the claims. And the more they know, the
14 more they will know what kinds of questions need to be
15 asked and answered. So, it's going to depend a lot on
16 what the current state of understanding is in the
17 population and how much they know about these things.
18 And I assume that what constitutes legitimate claims is
19 going to change as people become more knowledgeable.

20 MR. NEWSOME: Alan, just to follow up. I'm
21 Hampton Newsome from the FTC. Could you give us just in
22 a nutshell description of the type of consumer research
23 that's generally done, just kind of the nuts and bolts of
24 how these types of projects are accomplished, how are
25 they set up and how you go about it?

1 MR. LEVY: Well, usually there's several
2 phases. You typically talk to consumers in focus groups
3 and qualitative settings and get some idea about what
4 their general level of understanding is, what they think
5 is important and relevant and what they consider to be
6 new information. Then you would go to the general
7 population and do some kind of surveying and get sort of
8 quantitative estimates of how much people know about
9 specific issues and what their attitudes are and what
10 their practices are, what kinds of things they're doing.

11 Finally, and the most important thing, is that
12 when you actually come up with an approach of how you
13 want to talk about your product or market your product,
14 you test it, and you test it in quasi experimental type
15 settings where you give it to people and have them
16 critique it and see how it works. So, you do that in
17 sort of several phases to get an understanding of what
18 the consumer knows and what's going to work.

19 MS. HANN: Great. Thank you, Alan. We have
20 another question for Lori regarding RECs. In a voluntary
21 market, what happens to the money paid by a household to
22 buy these RECs? Who gets it and what do they do with it?

23 MS. BIRD: I guess there's variability.
24 Similar to the question that Kate answered, we don't
25 exactly get the information wholesale about what the

1 actual project is getting. But I think I did give some
2 numbers about prices and so forth and I do hear some of
3 the folks that own the renewable energy projects, what
4 they're getting for their RECs. And they're pretty
5 close, those wholesale prices that I provided, it's
6 pretty much in that range, pretty close. So, I think
7 that gives you some indication of the prices that we're
8 talking about.

9 What they do with the money, there's
10 variability there. There are a couple of non-profit
11 organizations and some of the utilities promise that
12 they'll take a certain amount of the money and invest it
13 in new renewable energy facilities. Others make no
14 promises to that effect. So, there's a lot of
15 variability, I think, in the marketplace and some are
16 just making profit off that.

17 MS. HANN: Terrific, thank you. We're running
18 out of time, actually. I have one final question for all
19 of the panelists, and here it is. Is there any ongoing
20 research to look at the types of claims being made about
21 these products and also consumer interpretation of them?

22 MR. LEVY: I'm not familiar with anything.

23 MS. TUSHNET: I don't know of anything about
24 carbon offsets. I did want to actually give you an
25 example of something where -- so, Lexmark advertises that

1 it recycles cartridges that are returned to it.

2 Actually, it thermally recycles them. What that means is
3 it turns them into ash. And they did a bunch of focus
4 groups on what people thought it meant, and people
5 generally did not think that it meant incinerating them.
6 They thought that there was going to be something to do
7 with trees. So, this is an example of a company doing
8 market research that really didn't help it any because
9 now it's subject to a false advertising claim by a
10 competitor.

11 So, right now, the take-away is that this is
12 very sporadic and likely to be embedded in other
13 marketing initiatives as companies try and test what
14 works for them most specifically, and a lot of it is
15 going to be proprietary. So, if this research is going
16 to happen, it is going to have to be led by public
17 interest groups or by the government.

18 MS. BIRD: I'm not aware of any specific
19 research in that. Our research is really focused on the
20 growth in the market and so forth.

21 MS. HAMILTON: I think the main area that's
22 connected with looking at claims versus carbon offset
23 projects is really again coming up with standards and
24 that each standard is again for different areas of the
25 supply chain. One is for project developers and saying,

1 okay, are you doing what you're saying, and then to the
2 very end of a carbon neutral product and is this product
3 actually carbon neutral, has it actually measured its
4 emissions, have they tried to reduce their emissions
5 first and now are they getting appropriate offsets that
6 maybe have faced the standard from the project
7 development side? So, I think that's a big thing.

8 And, in particular, the UK is looking at that
9 from a government viewpoint as well. Just an interesting
10 note.

11 MS. HANN: Well, thank you very much. This
12 ends our first session. It's 10:55. We're taking a
13 break until 11:10. Thank you.

14 **(Applause.)**

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1 that I study. So, it's sort of a bit of a reality check.
2 I think I'm going to find out if I really know what I'm
3 talking about here a little bit.

4 When I was invited to come to give a
5 presentation at the workshop, I have to say, this isn't
6 exactly what I envisioned. There's a lot of folks here
7 and it's also exciting in that respect as well. If I had
8 known, I might have added a little more color to my
9 slides.

10 But the title of my presentation is an
11 Economic Perspective on the Market for Voluntary Carbon
12 Offsets. And I took the aim of what I was going to try
13 to accomplish in the brief amount of time that I have to
14 speak to think about how would you perceive these markets
15 or how would you think about these from the perspective
16 of economic theory with a particular emphasis of what you
17 can learn from applying an economic theoretic perspective
18 to these markets.

19 So, that sets up this general outline that I
20 have of the presentation which is the first thing that I
21 want to convey is the idea that from an economic theory
22 perspective, you can think of these markets for voluntary
23 carbon offsets as an example of private provision of
24 public goods. But then I found this is not completely
25 satisfactory to explain the trends that we're seeing in

1 this market, so then it led me to thinking about it's
2 really a market for an impure public good, so I hope to
3 provide a brief introduction to an impure public good
4 interpretation.

5 And then some of the work that I've been doing
6 recently, I've kind of then realized that, well, it's not
7 even just impure public goods, it's really a market for
8 providing a public good for a bad. And this is the sense
9 in which I think that the market for carbon offsets
10 actually generates some new questions that both have
11 applied, and practical importance, but also have some
12 questions for us economists to think about as well
13 because they're new questions and I don't think there's
14 existing models out there for necessarily characterizing
15 and making predictions for this market.

16 Another thing that's come up in the earlier
17 session quite a bit that I felt I need to mention is just
18 the idea of asymmetric information in third parties. As
19 I was thinking about this before my presentation, I came
20 across some data. So, then, Point 5 here is I'm actually
21 going to provide a little bit of original empirical
22 analysis that I hope will provide some insight and help
23 influence some of the things that we're talking about
24 here today, and then I'll close with some final thoughts.

25 So, when thinking about the market for

1 voluntary carbon offsets, the first thing that comes to
2 mind for an economist is public goods. So, Econ 101
3 here, what are public goods? Well, there's two defining
4 characteristics. The first is so called
5 non-excludability. What this means is that no one can be
6 prevented from enjoying the benefits of a good once the
7 good is actually provided.

8 The other is so-called non-rivalry which is one
9 individual's enjoyment of a good does not diminish any
10 other's ability to enjoy the good.

11 So, the immediate thing that jumps out at you
12 is that the market for -- or CO2 emission reductions in
13 general are public goods. And why? Well, you could
14 think about the reason for CO2 reductions is a more,
15 let's say, stable climate and it turns out that you can't
16 prevent anybody from enjoying a more stable climate once
17 you have it and, also, one person's enjoyment of a more
18 stable climate doesn't diminish any other's ability to
19 enjoy a stable climate once it's provided.

20 So, where does this leave us with the market
21 for voluntary carbon offsets? Well, offsets are an
22 example of privately provided public goods, which is
23 another way of saying it's a market for voluntary
24 provision of public goods. Another way of thinking about
25 that is generally it's some sort of a charitable activity

1 where people actually reach into their pockets and incur
2 a private cost in order to provide a public benefit.

3 There's a whole host -- in fact, I would say
4 one of the more celebrated results of at least public
5 economics is the fact that when you leave the provision
6 of public goods up to private provision or voluntary
7 provision, you end up with underprovision or
8 inefficiently low level of the public good.

9 Why does this arise? Well, there's two
10 incentives that are at play. The typical one that's
11 mentioned is that of free riding, which is why would you
12 provide the public good when you can enjoy the benefits
13 that are provided from somebody else? You have an
14 incentive to free ride.

15 Another thing, which I think may be at play in
16 a way in terms of the market for voluntary carbon
17 offsets, is you're too small. Any one individual who
18 purchases a carbon offset, I mean, let's get real here
19 for a second, it isn't actually going to have a real
20 meaningful impact on reducing global CO2 emissions and,
21 therefore, providing a more stable climate.

22 So, what I think of here and the way that I
23 think about this is that the market for voluntary offsets
24 warrants attention, but it's not attention as a primary
25 mechanism or policy intervention for addressing climate

1 change. This is a charitable sector that we're talking
2 here, but it is true, as we saw earlier, that this market
3 is growing. The estimate that we were given was it's \$91
4 million in 2006. So, the financial commitment that
5 people are making in these markets is substantial. I
6 think it really warrants our attention for that purpose,
7 and in addition to what we're actually getting for that
8 money, but not as a viable policy mechanism in order for
9 addressing climate change.

10 So, we've got a market for private provision of
11 public goods. But how do we explain -- in some sense you
12 could think of as anyone who purchases a voluntary offset
13 from a real economics perspective, it's kind of a curious
14 behavior because the effect that you have on the problem
15 is so small. So, why do people actually do this?

16 So, what it leads me to think of is another
17 strain of the literature called impure public goods or
18 offsets as impure public goods. Here, the idea is that
19 there's joint production of both a private and a public
20 characteristic.

21 So, what I mean by that, let's take this
22 example of voluntary carbon offsets. The public
23 characteristic of an offset when somebody purchases it is
24 the emission reductions that I just talked about, that is
25 both non-rival and non-excludable.

1 But what can we think of as the private
2 benefits of purchasing a voluntary offset? Well, some of
3 the terms that are floating around in the literature are
4 warm glow. You simply get a warm glow or you feel good
5 from actually purchasing one of these offsets.

6 Another one is social approval. Maybe you hang
7 in social networks where people say, well, there's this
8 personal norm that you should be doing your part. So,
9 you get social approval or recognition from your peer
10 group for doing something good. Maybe there's also
11 signaling. So, people signal about their income or
12 signal that you are a good person. Somebody told me
13 recently how you notice that when you see the Toyota
14 Prius on the road, you never see bumper stickers on the
15 Toyota Prius, and the reason is that the whole car is a
16 bumper sticker. You're doing your part for the planet.
17 Well, you also are increasingly seeing decals on cars for
18 people buying carbon offsets and they're so-called
19 driving neutral.

20 Oftentimes, when you think about people who
21 donate to like National Public Radio, you get a free
22 t-shirt or you get a mug or you get theater tickets.
23 Companies certainly get corporate social responsibility
24 benefits. Rarely do companies, when they're carbon
25 neutral or rock-and-roll banks or the NFL or even NASCAR,

1 which I learned today, they advertise this claim and get
2 some benefits that they're actually good citizens.

3 So, in a sense, you could think of these
4 private or joint products, these private benefits, in
5 some ways as subsidizing provision of the public good.
6 People are buying this joint product.

7 But is it just that? Is that sufficient to
8 sort of reconcile what we're seeing in the market for
9 carbon offsets with economic theory? I think the answer
10 is still no. So, when I purchased my ticket to come to
11 Washington, I purchased it on Travelocity, and I would
12 say within 15 minutes I got an email from them that said
13 I can effectively offset the negative environmental
14 impact of my entire trip, I can go without guilt, I can
15 go zero, and they were willing to sell me a carbon offset
16 for my air travel.

17 On another site, drivinggreen.com, they say
18 everyone can effectively fight global warming by
19 offsetting the greenhouse gas emissions, they are
20 responsible for essentially erasing their carbon
21 footprint and undoing the damage. So, in a sense, you
22 could think back to this idea of warm glow. People are
23 buying a joint product for the reasons I've just said.
24 But, here, there's something else going on. People are
25 doing something bad, so this market is also being driven

1 by let's offset that bad. That's probably intuitive to
2 many of us in this room, but it turns out that that has
3 implications for it's not just charitable activities,
4 where when everybody buys or makes a contribution it's
5 going to have a positive effect. That's not necessarily
6 the case in terms of carbon offsets.

7 So, offsets or carbon offsets are a private
8 provision of a public good for a bad. And in a sense,
9 what this means is that there's a direct linkage to other
10 activity, say driving, which is the example that I have
11 been using. So, there's new questions for both
12 theoretical study and empirical study that relate to the
13 explicit link between the purchase of offset behavior and
14 this private good behavior that arises as well.

15 So, there are many people who are skeptical of
16 carbon offsets and they say, well, even if I bought that
17 offset for my trip here on Travelocity, well, I wasn't
18 going to take -- maybe I wouldn't have taken this trip if
19 I didn't have that opportunity to buy that offset. So,
20 is there actually a beneficial effect? It's possible
21 that people substitute and buy more gas-guzzling cars
22 when they can actually purchase an offset.

23 So, the relationship between availability of
24 the offset market and these other markets become very
25 important for whether or not we think about these,

1 whether or not there are going to be benefits associated
2 with these markets, and it's very related to the question
3 of additionality, which Carolyn is going to talk about
4 after me.

5 So, what's going on out there in terms of
6 research in this area? Well, I have a paper and Joshua
7 Gans. His has a much more clever title, which is Carbon
8 Offsets in an Economy with Guilt-Ridden Consumers, and he
9 generates a bunch of predictions about under what
10 circumstances will it have a beneficial effect on the
11 environment and will it not have a beneficial effect on
12 the environment, which, of course, is very important to
13 people who purchase these and that question is important
14 to many of us here in this room.

15 In terms of empirical evidence, well, Terrapass
16 conducts a survey which the results and some of it is
17 discussed on their webpage, where they did a survey of
18 people that purchased their offsets. And they show that
19 these people, compared to the general population,
20 actually tend to live a more greener, less carbon
21 intensive lifestyle. So, the pitch there is that maybe
22 these people aren't purchasing these offsets in order to
23 live a more carbon intensive lifestyle, maybe they're
24 actually having a beneficial effect on environmental
25 quality. So, these skeptics don't have to be so

1 skeptical about what's going on.

2 As an academic researcher, I think that this is
3 suggestive, but it's certainly not conclusive. What we
4 don't want to do is compare the people who purchase the
5 offsets to the people who don't purchase the offsets. We
6 want to know what Terrapass purchasers would have done if
7 they didn't purchase an offset. But, of course, this
8 counterfactual doesn't exist and is difficult from a
9 research perspective.

10 So, trying to get at this, some research that
11 I've been working on with Michael Moore at the University
12 of Michigan, we looked at households that are members of
13 environmental organizations in terms of their electricity
14 consumption. We found that households that have a head
15 of husband hold that actually have purchased a carbon --
16 that are members of an environmental organization
17 actually consume significantly less electricity and where
18 the opportunity to purchase renewable energy their
19 electricity consumption does not increase.

20 So, that was one minute left? I missed that
21 second five-minute -- can I buy an offset and get a
22 little more time?

23 The other thing I just want to mention here, I
24 can get through this really quick, is the idea of
25 information, asymmetric information which is very

1 important in third parties. I'm going to jump to my
2 results, but I found a website that actually lists a lot
3 of information on 66 different providers on 180 different
4 projects.

5 So, what I did is I tried to do a little
6 economic detective work here and figure out what I could
7 learn about the data that's actually out there, even
8 though there's not a lot. You can look through these
9 descriptive statistics online, if you like, and I've got
10 the slides, but basically what I did is I looked up
11 prices. So, this is a distribution of the different
12 prices for the offsets and you can see that it's
13 amazingly uniform. Of the 66 different providers, the
14 prices range from about \$43 down to \$3 and there's about
15 one at each price. So, if you want to buy an offset,
16 pick your price and there's someone out there online who
17 you can buy your offset from.

18 But what explains these prices? Well, what I
19 did is I estimated -- as an economist I'm interested in
20 prices and I estimated a regression model and I tried to
21 explain -- I tried to come up with variables that explain
22 differences in these prices and I'll jump right to the
23 results here. It turns out that the offsets in North
24 America are about 53 percent less, these are
25 statistically significant results, in Australasia than

1 they are in Europe. So, they're much cheaper. There's
2 no statistically significant effects getting at what we
3 were talking about before where the number of projects
4 that are not-for-profit or for-profit status, there's no
5 significant difference in prices.

6 But what's very interesting in the context of
7 the charge here in this workshop is that those that had
8 formal certification actually charged the 47 percent
9 higher price for the offset for the equivalent amount of
10 offsets.

11 So, what's going on here? I sort of pose the
12 question out here because this is very preliminary. As
13 an economist, it seems you could say, well, those that
14 are getting certification are actually doing something
15 that makes it more costly for them, or you could say that
16 actually just having that certification enables them to
17 get a higher-priced premium from consumers. So, maybe we
18 could talk about that a little later.

19 But my general conclusions here are that it
20 takes both existing and new theory from an economics
21 perspective to understand what's going on in this offset
22 market. Asymmetric information is an important thing
23 that's going on and there seems to be some observable
24 differences in these prices, which we can explain with
25 things that may have real relevance for thinking about

1 the future of third party certification information
2 provision and even the role of the FTC in getting
3 involved in these markets. Thank you.

4 **(Applause.)**

5 MR. HILGER: Thank you very much, Matthew.
6 And, again, all of these slides are available on the
7 conference website. So, if you want to look at his
8 analysis and there are citations to his research.

9 Also, if you have any questions, there are
10 question cards floating around the audience or you could
11 raise your hand and get one and it will be collected and
12 then you'll have a chance to ask your questions.

13 Next will be Carolyn Fischer on RECs for carbon
14 offsets and additionality. Carolyn, thank you.

15 MS. FISCHER: Thanks, and I'm very glad to be
16 here and excited to see such a good turnout for
17 discussing these issues. I'm with Resources for the
18 Future. For those not familiar with RFF, we're an
19 independent non-profit research institute focused on
20 environmental and natural resource policy issues. We
21 have been around for over 50 years trying to improve
22 policymaking.

23 Now, I'm going to focus not just on carbon
24 offsets, but specifically on using RECs for carbon
25 offsets, and kind of question to what extent are these

1 things interchangeable? A fundamental point to make is
2 that we have two different kinds of policies. We've got
3 a set of policies to promote renewable energy and a set
4 of potential policies to reduce greenhouse gas emissions.
5 They're different policies with different rationales, but
6 to some extent they do support kind of twin goals.

7 So, we have renewable generation policies that
8 are there to support the innovation and diffusion and
9 promote the scale economies that we need to make these
10 technologies viable in the marketplace, but as a
11 byproduct from that, by expanding renewable energy to
12 some extent we do get greenhouse gas reductions.

13 On the other hand, we have greenhouse gas
14 policies, like emissions trading programs like we have in
15 Europe, and they're setting up in some states in the
16 Regional Greenhouse Gas Initiative and in California.
17 These programs are designed to reduce greenhouse gas
18 emissions preferably by any means that are cost
19 effective. That's why we're looking towards market-based
20 mechanisms like emissions trading, so that it's cost
21 effective.

22 Well, a byproduct of these policies is by
23 making fossil fuel technologies more expensive, they're
24 going to make renewable energy more competitive. So, we
25 get a boost in renewable energy as a byproduct to these

1 policies.

2 So, you have both policies get you some of
3 both, but they really have different emphasis and the
4 credits associated with each policy are going to mean
5 slightly different things.

6 It's also important to take account of the
7 policy context for renewable generation. It's not just
8 RECs. We've got a lot of other policies supporting
9 renewable energy out there, federal tax credits, loans, a
10 lot of states we've seen have renewable portfolio
11 standards, other incentives, too. We've got voluntary
12 programs and then RECs. These RECs, themselves, have
13 multiple uses. One is compliance with different RPS
14 programs, renewable portfolio standards for complying
15 with retail green power offerings that utilities provide
16 for consumers to offset their power purchases if they
17 want to and, potentially, to offset things other than
18 power like greenhouse gases.

19 So, this is kind of the key question and the
20 role of voluntary offsets. So, in the absence of
21 mandatory nationwide greenhouse gas policy, to what
22 extent can these voluntary programs for renewable energy
23 reduce our greenhouse gas emissions? That's kind of the
24 key question I'm going to focus on.

25 For doing this, then you have to calculate what

1 are the offsets, what are the greenhouse gas reductions
2 that we're getting from our RECs? And it's just like any
3 offset program really, it requires comparison to a
4 baseline counterfactual of what emissions you would be
5 getting in the absence of these credits. And this
6 requires, typically, a project-specific methodology like
7 we have in the clean development mechanism as part of
8 Kyoto protocol, which a lot of European countries are
9 focused on.

10 So, there's been a lot of effort put in to
11 improving the methodologies for this. But, basically,
12 you have to forecast what your generation emissions would
13 have been in the absence of this project and then,
14 hopefully, after the project goes through, you observe
15 the actual generation in emissions, you compare them to
16 this baseline, you have monitoring verification and also
17 verification of the methodology, and then you issue the
18 credits.

19 But there are a lot of difficulties with any
20 form of offset program because it's voluntary. So, when
21 people aren't forced to comply with a greenhouse gas
22 reductions regulation, they're joining the program
23 because they want to. We don't necessarily know why they
24 want to do that. We can't observe the counterfactual of
25 what would happen in the absence of this project if it

1 doesn't go through. You observe one or the other.

2 One of the problems is, as Matt mentioned,
3 asymmetric information. You have that problem here, too,
4 in figuring out additionality because the investors who
5 are intending to go through with the renewable energy
6 policy, they have a lot better information about what
7 they were going to do in the absence of getting these REC
8 credits than you do or than a third party verifier does.

9 So, these offset programs tend to attract a lot
10 of people that would have done it anyway because it's an
11 extra bonus for them, and then they also track some
12 people who wouldn't have done it anyway because there's
13 sufficient extra return generated by the credits and it
14 makes it worth their while. It's difficult to
15 distinguish between these two. So, the general tendency
16 in these kinds of project-based offset programs is to
17 overallocate.

18 In the case of RECs, you kind of have to think
19 through of how you would do this. You have two
20 components that you need to worry about because these
21 aren't projects that directly reduce emissions. You
22 have, first of all, the question of is the renewable
23 energy itself additional? So, would it not have been
24 generated otherwise but for the credits? And then what
25 emissions does this particular project display? What's

1 the conversion rate for this project? It's going to
2 depend on what the generation mix is in the selling area.
3 And, also, I'm going to argue whether the area has a
4 greenhouse gas emissions cap or not, which is becoming
5 relevant quickly.

6 Now, one of the problems in determining
7 additionality of the renewable energy is that RECs really
8 aren't designed to certify additionality. They're
9 designed to certify renewable generation. And you can
10 see this in some renewable portfolio standard systems,
11 they include pre-existing renewables, especially hydro-
12 electricity to allow for a larger percentage. Maybe you
13 have noticed on the map, Maine has a huge RPS standard,
14 it's 40 percent. Well, that includes hydro and that's
15 where they get most of it and they actually have
16 relatively low prices. Massachusetts has a 4 percent
17 standard, but it actually turns out to be one of the
18 strictest RPS standards because it's for new renewables
19 in Massachusetts and it narrows that category.

20 So, those things mean very different things in
21 terms of the stringency, but it actually -- the
22 additionality part doesn't matter so much for the RPS
23 because states can choose to incorporate whatever
24 baseline renewable energy is in there into their targets
25 when they're setting the stringency and, basically,

1 whether you include that or not, it serves as a transfer
2 to those firms that are generating already. But it
3 doesn't affect the efficiency of the program or the
4 incentives. What does that is the effective stringency
5 including that baseline, otherwise it's just a transfer
6 within the system.

7 But additionality really does matter for
8 offsets because if you're trying to get for carbon
9 reductions as opposed to just you want to promote a
10 certain share of renewable energy in your portfolio or
11 promote renewable energy in general, it matters because
12 you're granting these offsets to entities outside carbon
13 regulation that are expecting some carbon reductions.

14 There's some additional issues like are the
15 RECs themselves additional, can they not resell them? I
16 think other people have addressed this. My sense is that
17 that's not really a problem. Most RPS systems have
18 provisions to ensure that there isn't double counting.

19 There's also a question of accuracy. Are the
20 RECs being allocated for installed capacity or for actual
21 generation? This can matter because there's a lot of
22 variability in renewable energy and it varies along the
23 peak load profile, so you may be displacing different
24 things across the peak load profile. Some of these are
25 sort of ideas of are you displacing energy in fossil

1 fuels in the short run or the long run?

2 Regarding the conversion rate, there are
3 complications because what you really want to know is,
4 okay, so you've established that we have some additional
5 renewable energy. What is it offsetting? So, what you
6 want to know is not what the average emissions rate per
7 kilowatt hour is in the country or even in that region,
8 you actually want to know what is the marginal source of
9 generation in that area where the renewable provider is
10 serving. And you can see that we have very different
11 emission rates depending on whether that's natural gas or
12 coal or hydro or energy efficiency. So that would be if
13 prices fall, then you get less energy efficiency.

14 So, what is the marginal source that is being
15 replaced by additional renewable energy? And you can see
16 it varies a lot by region, and this can also vary over
17 the peak load profile. So, if you're assuming that it's
18 displacing coal-fired electricity, that gets you a lot
19 more offsets than if it's actually from natural gas,
20 which is often the marginal source. But just to see the
21 disparity, again, these are average and not marginal, I
22 couldn't find those, I borrowed this from an EPA
23 presentation from folks that run the EGRID model, which
24 is often used to do these kinds of calculations. So,
25 there's a really wide disparity of average emissions

1 rates around the country and then, presumably, also
2 marginal.

3 There's an important role served by regional
4 greenhouse gas policy, too. It starts to matter where
5 your RECs come from. If they're coming from regions that
6 have a greenhouse gas cap as is developing -- for now if
7 you bought them from Europe especially. I'm going
8 backwards.

9 So, if you're buying it from areas like the
10 west that don't have a greenhouse gas emissions cap, then
11 these can represent real offsets, subject to what I was
12 talking about, the challenges of actually calculating
13 what the offsets are. But if you're buying it from
14 someplace that has the cap like some of the states that
15 are in the northeast that are thinking about it, then the
16 effect on total greenhouse gas emissions is going to be
17 zero. So, you're buying a REC from Europe that enables
18 more renewable energy, that enables electricity sector to
19 meet its greenhouse gas emissions target more cost
20 efficiently, so they can sell some emissions permits to
21 someone else and the price and quantities will
22 equilibrate, so you end up with the same amount of
23 emissions, so you get no offsets in that case. Depending
24 on how you account for leakage, that's really
25 complicated.

1 There's also a certain role in interactions
2 with regional RPS policies because you're kind of in
3 competition for some of the same things, for same RECs.
4 So, if you're using RECs from regions again without the
5 RPS, this is going to provide additional subsidy to
6 renewables. So, that's going to crowd out fossil fuel
7 generation to some extent, but it's going to tend to
8 lower generation costs and thereby typically prices and
9 there's also less incentive to conserve. Some of that
10 will end up as a demand impact. Whereas using RECs from
11 regions with the RPS, that's going to tend to drive up
12 the prices, crowd out fossil generation and maybe crowd
13 in a little bit of conservation.

14 There are additional regional issues in that
15 because if these voluntary markets develop at such a
16 scale to influence the markets, you can see kind of
17 overlapping impacts on these other programs and also
18 recognize that you're going to need the cooperation of
19 all these jurisdictions not to change their targets in
20 response to ensure that compliance and to coordinate with
21 their greenhouse gas policies.

22 So, in conclusion, in areas without greenhouse
23 gas caps, voluntary purchases of additional renewable
24 energy can lead to greenhouse gas emissions reductions.
25 But the calculations are really difficult and they're

1 source-specific, and the current RECs are not designed
2 for this, they're designed to certify renewable
3 generation, renewable generation of specific types as
4 well because RPS policies differ on what type of
5 renewables they allow. But it seems like we need
6 something like RECs plus that would certify these
7 additional attributes. They're not set up to certify
8 carbon displacement attributes. They're much better at
9 certifying renewable generation.

10 It's also important to recognize kind of in the
11 long run that demand for offsets overlaps with REC demand
12 created by all these other policies and programs and,
13 ultimately, we should really be thinking of this as a
14 transitional policy because once we get a greenhouse gas
15 cap, then these kind of voluntary offsets are moved, or
16 other than going abroad and looking for offsets in
17 developing countries that don't have emissions caps or
18 then you've also then got your ultimate offset. You can
19 buy an emissions permit and yourself kind of shrink that
20 cap.

21 In fact, that's what we're doing at a
22 conference this summer a colleague of mine is organizing.
23 He's decided he doesn't believe in offsets and, so, he's
24 buying European ETS permits for it to offset. So, thank
25 you.

1 **(Applause.)**

2 MR. HILGER: Thank you very much, Carolyn.

3 MS. PAPPALARDO: We have lots of interesting
4 questions coming in. The first one I already shared with
5 Matt. What was Matt going to say on the asymmetric
6 information slide that he largely skipped?

7 MR. KOTCHEN: Well, let's make it not
8 asymmetric information here in the sense that I know it
9 and you don't. So, what I was going to say is asymmetric
10 information provides an opportunity for third parties.
11 So, asymmetric information which the idea was the basis
12 for the 2001 Nobel prize in economics is that when one
13 party in a transaction has more information than another,
14 and this is a concern in the market for carbon offsets
15 because it means that there could be some -- the sellers
16 may not deliver on what they're saying, but also
17 consumers may get discouraged because they don't believe
18 the claims that are actually being made, which is
19 relevant for here, what we're talking about here.

20 So, third parties can set standards and
21 certify, these can come from governmental agencies or
22 NOGS. But another area where it's sort of happening,
23 which is where I got the data for some of the conclusions
24 that I showed, were just third parties that are just out
25 there to provide information, where they just list and

1 you can go to their website and find out different
2 characteristics of these providers and make your choice
3 that way. So, it sort of provides an opportunity for
4 third parties and we already see evidence that they're
5 starting to fill those niches.

6 MS. PAPPALARDO: Great. Another question for
7 Matt. Why isn't the carbon market global? If it is, why
8 doesn't the law of one price apply? Are offsets
9 differentiated products?

10 MR. KOTCHEN: So, I think that was an isn't,
11 just to be clear, right? Why isn't?

12 MS. PAPPALARDO: Why doesn't?

13 MR. KOTCHEN: So, I think that that's -- I
14 totally agree, which is why I think it's so curious that
15 you see such variation in prices out there. A ton of CO2
16 emitted into the atmosphere, it doesn't matter where it
17 comes from, so if you want to buy an offset, you could
18 buy an offset that's based in Australia, in Europe,
19 Africa or the U.S. That is, of course, unless you're
20 buying a joint product and you actually care about where
21 that offset is. So, you may actually believe that if the
22 emissions happens in the U.S. that the offset should
23 occur in the U.S. And if that's the case maybe there
24 would be differences in prices.

25 MR. HILGER: Next, an open question for both

1 of you. Are the limitations of public benefits -- more
2 Matt. Are the limitations of public benefits, you
3 discussed the example free riding, minimized or
4 eliminated when companies purchase the offset for an
5 advertising purpose and then sell their goods at
6 competitive prices?

7 MR. KOTCHEN: That is related to a lot of the
8 research that's being done in sort of the literature of
9 corporate social responsibility. If it's more costly for
10 companies to buy offsets and then they go out and their
11 costs are then higher and they compete in a market where
12 they're just competing on price does not eliminate the
13 incentive. That would be true, again, unless there's
14 differentiated products where people are actually willing
15 to pay a price premium for this other information, then,
16 in fact, it could be sustained. But at least the
17 economic theory would say that if it's more costly for
18 companies to do this and then nobody cares about it, then
19 they would be competing in the market and that may be
20 true. But it also raises the question of whether or not
21 the carbon offset market really is competitive now or
22 not.

23 MS. PAPPALARDO: We have a question for
24 Carolyn. Can you comment on recent Green-e climate
25 standards? Does it address concerns you highlighted

1 effectively, in your opinion?

2 MS. FISCHER: I guess I'm not quite familiar
3 enough with the specifics of the Green-e standards. I
4 was looking over some of their requirements and they do
5 seem to make an effort to calculate these things. But
6 it's a very difficult and complex procedure and I'm not
7 sure how well anyone can really get at the additionality
8 questions of the renewable energy, and then also the
9 marginal, whether they do average emissions displaced or
10 really marginal which is what you would want.

11 MS. PAPPALARDO: I think the next question
12 probably follows on to your comment. Given the
13 difficulty in ensuring RECs offset GHGs, would you
14 recommend a moratorium on calling RECs offsets?

15 MS. FISCHER: I did notice in some places that
16 some people hesitate to make a claim in terms of the
17 carbon offsets for RECs and you can choose to buy RECs
18 for renewable energy or you can choose to buy offsets.
19 I'm very comfortable with those kinds of claims. And I
20 think the methodology needs to be considered and
21 standardized across products to feel confident in the
22 claims of RECs as carbon offsets.

23 MR. HILGER: The next question, the discussion
24 assumes that the offset or credit must drive additional
25 value for the low or zero greenhouse gas emission

1 attribute. This may not be the most important value to
2 the provider. It might be the long term power purchasing
3 agreements that help finance a new project that would not
4 be developed otherwise, additionality. What are your
5 opinions?

6 MS. FISCHER: Again, that's similar to my last
7 answer that there are a lot of reasons why people want to
8 buy green power, and it's not just carbon, it's also to
9 promote the technology, you get other air quality --
10 local air quality benefits from shifting towards
11 renewable energy from other sources, at least wind and
12 solar. So, again, I'm a lot more comfortable with
13 considering RECs for what they are in terms of
14 representing renewable energy and there are additional
15 values to that that some people might place on it,
16 compared to just carbon offsets.

17 MR. HILGER: Does the design of cap and trade
18 programs determine whether RECs affect CO2 emission
19 levels?

20 MS. FISCHER: The key feature is the cap, that
21 emissions are fixed. If we had a carbon tax instead,
22 then the answer would change because you have a fixed
23 price. The purchasing of the REC isn't going to change
24 the emissions price and thereby the incentives for
25 everybody else in the market to reduce their emissions.

1 But by the fact that you have a cap and then you have an
2 endogenous, a market-determined price for those emissions
3 reductions, then you're always going to be meeting the
4 cap. So, that's the key design feature that matters.

5 MS. PAPPALARDO: Thank you. One generic
6 question that we have is, how do the challenges differ
7 with offsets that come bundled with other products like
8 snacks or vehicles versus offsets solo?

9 MS. FISCHER: Do you want to take this?

10 MR. KOTCHEN: I guess the question then about
11 how it affects the other behavior becomes a little bit
12 more constrained. So, if you think about individuals
13 making choices about what car to drive versus buying an
14 offset or not their vehicle choice, but then certain
15 vehicles come along with automatic offsets. I guess it's
16 sort of interesting, some vehicles come with like a year
17 free of gas. I wouldn't be surprised if we get vehicles
18 coming now with a year of carbon offsets along with them,
19 and then it sort of depends upon the price. How that
20 affects the price and the outside option that individuals
21 could actually make these decisions and decouple them on
22 their own. So, it sort of makes another option in terms
23 of how those behaviors would interact or the
24 substitutability between them.

25 MR. HILGER: What economic insights should

1 regulators keep in mind when they evaluate substantiation
2 for claims that an offset project actually reduces carbon
3 emissions? And let me preface that by when one is buying
4 a carbon offset, what exactly is one purchasing?

5 MR. KOTCHEN: That is a good question. I don't
6 necessarily have the answer. There's lots of people here
7 who are working and would probably give better insight
8 into that I would guess later in the day. But one thing
9 that comes about are these third parties that are
10 providing information where a lot of the criteria that
11 they have are a transparency of what's going on and
12 whether or not companies are actually providing it when
13 people purchase the offset.

14 So, I think that that's going to become
15 increasingly important about whether or not it's based on
16 energy production, whether or not it's based on avoided
17 deforestation, whether or not it's based on any low till
18 agriculture, lots of different types of things that could
19 come about.

20 So, I think that you can find some of this out
21 on some of these third party websites that are out there
22 and we're actually working with this data set now, but I
23 can't answer that really generally yet.

24 MS. PAPPALARDO: One general question that
25 arises is that there's scientific uncertainty and

1 certainly about new product, a lot of uncertainty about
2 how the market is developing in this area. Marketing
3 claims for products involving uncertainty of facts raise
4 difficult regulatory questions. One question to consider
5 is the trade-off between Type 1 and Type 2 regulatory
6 errors. That is a trade-off between allowing claims that
7 eventually turn out to be harmful versus prohibiting
8 claims that would have been beneficial.

9 Given your analysis of the market, what are the
10 risks associated with both types of errors and how
11 serious are they?

12 MS. FISCHER: Okay. Well, I can never remember
13 which is the Type 1 or 2 and, apparently, it's backwards
14 here. So, let's just break it down into the risk of
15 allowing untrue claims. So, this is the risk first that
16 consumers aren't going to be getting what they expect.
17 They're going to be wasting money. Also, if those
18 consumers are -- these are actually offsets allowed in a
19 greenhouse gas emission system, then you're risking
20 expanding the cap and not getting the full reductions
21 that you expected, as opposed to reductions outside the
22 cap, you're going to get some.

23 In the case if it's a regulated entity within a
24 cap, you're actually going to increase emissions because
25 if they're not getting the full offset, the full carbon

1 reductions from their offsets, that's allowing them to
2 emit more under the cap, then you're effectively
3 expanding the cap. So, that's an important risk
4 there.

5 And I think that's also perhaps one of the
6 explanations why credits seem to be more expensive in
7 Europe. They might have tighter standards if these are
8 mechanisms that allow them to offset their greenhouse gas
9 liability under the ETS.

10 And then the risk is that if you have a lot of
11 these in the market and they're cheaper to provide, less
12 legitimate offsets than fully legitimate offsets, then
13 you're going to tend to crowd out the legitimate
14 products, you're going to drive down the price and make
15 these other options uneconomic, and to the extent that
16 you undermine confidence in the whole system, that's
17 going to drive down the price and reinforce this effect
18 more. So, I see risks on that side.

19 The risk of prohibiting claims that are
20 actually true, then you're going to stifle that market,
21 you're going to potentially limit legitimate
22 opportunities and, so, there's a question there. I don't
23 know that I have a good sense of how large one is
24 relative to the other.

25 MS. PAPPALARDO: Well, thank you so much. We

1 had lots of questions, lots to think about. Thank you
2 very much.

3 **(Applause.)**

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1 **SESSION 3: TECHNICAL SUBSTANTIATION ISSUES**

2 MR. NEWSOME: Welcome back, everybody. I'm
3 Hampton Newsome from the FTC. This is Session 3. During
4 this session, we're going to talk about technical
5 substantiation issues. I think we have got a great panel
6 here.

7 As we discussed this morning, substantiation is
8 a key concept under FTC's consumer protection law. And
9 in the area of offsets and RECs, things can get
10 complicated. There are lots of moving parts. There are
11 questions you have to answer, how do you determine your
12 greenhouse gas emissions from everyday activities? If
13 you're using that as part of your claims to figure out
14 what the average consumer -- how much their activities
15 are creating.

16 Other questions, how do you calculate the
17 emission reductions from your offset activities? Also,
18 another important question is, how do you track offsets
19 and credits and renewable energy certificates and how do
20 you verify that they're not being double counted? That's
21 another important question.

22 So, we have four people that are very involved
23 in these types of activities, very knowledgeable, and
24 they're going to walk through some of these issues with
25 us.

1 To begin with, we've got Derick Broekhoff from
2 World Resources Institute. He helps direct the
3 greenhouse gas protocol team there. And then after that
4 we'll have Jim Sullivan, who is Director of EPA's Climate
5 Leaders Program. And then Maurice LeFranc from EPA, and
6 he's in the Climate Change Division of the Office of
7 Atmospheric Programs. And we'll wrap with Ed Holt, who's
8 a consultant with extensive experience in the REC market.
9 He's prepared many reports for DOE and worked on these
10 issues.

11 So, let's start off with Derik, come on up, and
12 we'll get going.

13 MR. BROEKHOFF: Thanks, Hampton. So, I'm going
14 to start off the panel today by introducing some of the
15 basic technical requirements of carbon offset accounting,
16 by which I mean the quantification of emission reductions
17 associated with carbon offsets. A key point I want to
18 make is that there are some commonly accepted protocols
19 and procedures for quantifying carbon offset reductions.
20 At the same time, there's not necessarily one right way
21 to do that quantification.

22 To do that you need standards or standardized
23 methodologies, and we don't have those for large segments
24 of the voluntary carbon offset market today. I think
25 that's a key point to keep in mind when we're examining

1 questions about the veracity or credibility of different
2 marketing claims.

3 Just to start off, if you're talking about
4 carbon offset standards, I want to be clear that you
5 really are talking about, in my opinion, three different
6 related parts of the equation to a carbon offset
7 standard. I'm just going to talk about the accounting
8 part. But you'll generally see, I think, five or six
9 different broad criteria that offsets need to meet in
10 order to be credible. They need to be real, surplus,
11 permanent, verifiable, and enforceable or some variation
12 on those criteria.

13 You see those quite a lot. People tend to
14 agree on them. Of course, the devil is in the details in
15 terms of how you elaborate and specify what those
16 criteria mean. In order to do that, you need these three
17 sets of standards, the accounting standards that I'm
18 going to talk about, but also monitoring and verification
19 standards and tracking and contractual standards
20 registries and whatnot to avoid double discounting and
21 double selling, things like that.

22 So, some others here will address some of those
23 other components, I'm just going to talk about the
24 accounting side today. Much of what I'm going to present
25 here is based on the work that my institute has done on

1 the Greenhouse Gas Protocol Initiative. Many of you may
2 be familiar with it. This is a now ten-year-old
3 initiative, a joint initiative between WRI and the World
4 Business Council for Sustainable Development to develop
5 greenhouse accounting standards for businesses to use,
6 developed through a transparent and multi-stakeholder
7 process involving businesses, NGOs and government
8 representatives.

9 There's two components to the GHG protocol.
10 One concerns corporate inventories, that is how you
11 determine the emissions that your company or organization
12 is responsible for. The second is a module devoted to
13 GHG projects that is quantifying emission reductions
14 associated with specific projects, offset projects in
15 particular.

16 If you're familiar with the GHG protocol,
17 you're probably familiar with the corporate side of
18 things. I'll quickly talk about that. Basically, the
19 corporate side is concerned with inventorying the
20 emissions, determining the emissions that you need to
21 reduce or offset if you're looking at offsets. Without
22 going into a lot of detail, it specifies the different
23 categories that you put those emissions into and
24 separates them by the direct emissions from sources that
25 you own or control and indirect emissions from different

1 sources including purchased electricity.

2 Now, we can come back to this slide, there's
3 some discussion can carbon offsets count against you or
4 direct emissions or your indirect emissions, what should
5 you count them against? There's some further questions
6 we can go into there.

7 But I'm going to jump right into the project
8 accounting side of things. Basically, the project, the
9 GHG protocol project module concerns how to quantify
10 greenhouse gas emission reductions from individual
11 projects. And rather than walk through all of the
12 different steps in the GHG protocol, what I'm going to do
13 is introduce what I think are three of the most
14 fundamental basic concepts in carbon offset accounting
15 and their importance and relevance.

16 So, starting off, I think the first key
17 concepts and certainly the most important when you're
18 looking at quantifying reductions from carbon offsets is
19 this notion of a baseline scenario that is the reference
20 point against which you're quantifying emission
21 reductions. The key point here is that for carbon
22 offsets you're looking at a forward-looking and
23 hypothetical scenario. So, in the entity context, what
24 you see on the left-hand side there, quantifying
25 reductions is fairly straightforward. You inventory your

1 emissions in year one, you do it again in year two and
2 you compare the results. If your year two emissions are
3 lower, you can chock up those reductions between those
4 two years. So, it's a basic historical comparison.

5 With offsets, you have a fundamentally different
6 frame of reference. Again, you're looking at this
7 hypothetical scenario, so the procedure is to look at
8 your emissions in year one and in year two and compare
9 those emissions to what the emissions would have been in
10 this alternative scenario. So, it doesn't matter if your
11 year two emissions are lower than your year one
12 emissions. What matters is how those emissions compare
13 to this hypothetical scenario.

14 What is the baseline scenario? There's
15 different formulations for it. In the GHG protocol, the
16 baseline scenario is what would have occurred, a
17 description of what would have occurred in the absence of
18 any considerations about climate change mitigation. Or,
19 more specifically, in the context of a carbon offset
20 market, what would have occurred in the absence of a
21 carbon offset market?

22 So, imagine another state of the world where
23 everything is completely the same, holding everything in
24 constant except you don't have a carbon offset market,
25 what would happened in that scenario? That's the basic

1 challenge associated with determining baseline emissions
2 for carbon offsets.

3 There's a flip side to this question, which is
4 this question of additionality, which is basically asking
5 would the project itself have occurred in this
6 alternative scenario in the absence of a carbon offset
7 market? If your project would have happened in that
8 scenario as well, it's not additional, there's no
9 difference in emissions between the baseline and your
10 project; you don't get any emission reductions.

11 Now, there's all kinds of different methods for
12 trying to answer this question. I'm not going to go into
13 what those methods are for additionality. The GHG
14 protocol focuses on this question of estimating baseline
15 emissions.

16 And there are basically two procedures, general
17 procedures for making this estimation. The first step is
18 always to identify what are the plausible alternatives to
19 your project, alternative technologies and practices
20 which we call baseline candidates. And then you take
21 those alternatives and assess them using either of these
22 two procedures. The first is a project-specific approach
23 where you look at the various alternatives, compare the
24 barriers facing the different alternatives, potentially
25 the benefits or pay-offs associated with them, and you

1 try to identify one alternative that would have been most
2 likely to occur in this alternate scenario without a
3 carbon offset market.

4 The second procedure is what we call a
5 performance standard procedure, and that's where you
6 essentially look at all the alternatives and calculate a
7 baseline emission rate, as an average of these different
8 alternatives or a better than average emission rate. And
9 you use that to represent what the baseline emissions
10 would be for a typical project.

11 Now, these are both completely valid legitimate
12 ways to try to answer this question about what baseline
13 emissions would have been. But a key point here is that
14 you can use either one of these procedures and come up
15 with a different answer for the same kind of project and
16 which one you choose really depends on the type of
17 project involved and those considerations which are more,
18 I think, policy related questions, which I'll get to at
19 the end.

20 But different marketers may be using different
21 methods to quantify their reductions and they may be
22 valid. They may both be valid and that's something to
23 consider in looking at their marketing claims. So,
24 baseline emissions are a key concept.

25 The second key concept in carbon offset

1 accounting, I think, is what I would call completeness.
2 That is, projects can have both intended and unintended
3 effects on greenhouse gas emissions. Just as an example,
4 you may have a project that involves biomass fuel which
5 has a net zero contribution to fossil carbon emissions in
6 the atmosphere, so it doesn't produce any net emissions
7 but you may have an increased emissions associated with
8 fossil fuels in the production of the biomass fuel and
9 you would want to take account of those emissions in
10 quantifying the overall emission reductions associated
11 with your project.

12 So, all significant changes in greenhouse gas
13 emissions should be accounted for when you're trying to
14 quantify the reductions from carbon offsets.

15 Third key concept, monitoring and verification.
16 Monitoring is required to determine the actual emissions
17 from your projects in the project scenario. Also, in
18 many cases, to validate important assumptions about the
19 baseline scenario. So, you may make assumptions based on
20 current fuel prices, for example. If those change, you
21 may need to change your assumptions. So, you need
22 ongoing monitoring to quantify total emission reductions
23 and you don't want to count reductions before if they
24 have not been monitored and verified.

25 So, all three of these basic concepts, I think,

1 are essential when you're looking at carbon offset
2 accounting, the baseline emissions estimates, making sure
3 you have done a complete accounting of all changes in
4 emissions, and monitoring of the project to make sure
5 that it performs as expected.

6 The key point, though, I think when you're
7 looking at marketing claims and you're thinking about
8 carbon offset standardization is that within these basic
9 requirements there's still a lot of open-ended questions
10 that need to be answered.

11 I posted some of them up here. Within the GHG
12 protocol, we provide a set of general accounting
13 principles that can help guide you in answering some of
14 these questions. But absent some actual standardization
15 and some actual development of methodologies that are
16 tailored to specific types of projects that really
17 specify these questions, you're going to have some
18 ambiguity.

19 And a key point here is that these are, in my
20 opinion, policy questions. That is, they're the kinds of
21 questions you need to answer if you're designing a carbon
22 offset program, you're setting standards, you're trying
23 to balance issues like should we emphasize the
24 environmental integrity of this market in the standards
25 that we're developing at the expense of excluding some

1 good projects, for example, or should we try to be a
2 little more lenient, promote the development of these
3 markets, and reduce transaction costs and things of that
4 nature. How you answer these larger policy questions is
5 going to influence how you answer these accounting
6 questions.

7 And that's a challenge I think for the
8 voluntary market. It's not clear yet who is going to
9 make these kinds of policy determinations for the market.
10 They may get decided as this market evolves over time.
11 But when you're looking at this question of are marketers
12 out there representing offsets correctly, credibly, they
13 have to at least have covered all the bases of these
14 three basic ideas here, the baseline estimates and so
15 forth. But there's still going to be some differences in
16 the approaches that different standards and programs are
17 taking. It's important to keep in mind.

18 That's it. Thank you very much. I'm happy to
19 take any questions.

20 **(Applause.)**

21 MR. NEWSOME: Thanks, Derik. Let's go to Jim.

22 MR. SULLIVAN: Thanks, Hampton. I'm going to
23 apologize in advance, I have been sick for the past few
24 days, so if I'm coughing or wheezing up here, I'm going
25 to apologize in advance. But since this is an FTC

1 meeting, I decided to do my own survey and make it
2 audience participation. I've got here a common cold
3 remedy which says it reduces coughing symptoms and common
4 cold symptoms. So, every time I do, if you guys could
5 keep notes and we'll give them something else to look for
6 after this meeting.

7 I manage the Climate Leaders Program at EPA.
8 We have been around six years working with companies to
9 do comprehensive climate strategies. It's been road
10 tested with greater than 150 partners from every major
11 sector of the U.S. economy. There's three critical
12 components that the partners work on: completing a
13 corporate-wide inventory, developing an inventory
14 management plan, and setting an aggressive corporate-wide
15 reduction goal. I'll talk a little bit more about those
16 in a second.

17 Partners report the progress annually to EPA
18 and it's a pretty big group of companies. They represent
19 about 10 percent of U.S. GDP from their U.S. revenues and
20 emissions from these companies represent more than 8
21 percent of U.S. emissions in the U.S. inventory.
22 Overall, a little more than half of them have publicly
23 announced goals so far, preventing nearly 50 million
24 metric tons of CO2, which is about close to nine million
25 cars, and we have 11 partners that have achieved their

1 initial goals. So, a lot of experience dealing with
2 greenhouse gas, inventories and offset issues.

3 The program requirements are developing a
4 corporate-wide inventory which, as Derik had mentioned,
5 is based on the WI/WBCSD protocol that includes all
6 corporate emissions, not just CO2 but methane and the
7 other major gases. It includes direct emissions plus
8 indirect from electricity use.

9 The second component is creating an inventory
10 management plan for credibility. So, this is a document
11 like an environmental management system where companies
12 really go through a rigorous process to describe how
13 they're building their bottoms up corporate inventory.
14 It ensures high quality data and then EPA does some
15 desktop checks on that and actually does a site visit for
16 every one of these companies to make sure that it's being
17 well implemented at the site level.

18 And then the final component is setting a GHG
19 reduction goal. It needs to be forward-looking,
20 aggressive for the sector, and external reductions are
21 allowed to help companies meet those goals, which is why
22 we're here today. We also have on our website, if you
23 look under that, a performance benchmarking methodology
24 that's been peer reviewed, released under ACEEE this
25 summer about how we set those performance benchmarks for

1 the goal setting process with companies.

2 So, just to give you a brief sampling of the
3 companies we're working with, this started out about five
4 years ago, this is a slide that showed what companies are
5 taking action on climates. It's now become sort of a
6 different message of who isn't taking action on climate.
7 So, there's a lot of activity going on there and it's a
8 pretty good representation of leading companies in the
9 U.S.

10 The key points we have had on offset approach
11 with these companies is that the goal reporting -- I had
12 mentioned the three components of the program. Companies
13 are allowed to use offsets to help achieve their goals.
14 It's different from an inventory. That's one of the key
15 points if you take away from today as good. An inventory
16 is an accounting of what your actual emissions are. An
17 offset or a greenhouse gas reduction is something you do
18 to reduce or something you do to offset those emissions.

19 So, we feel that the goal reporting should be
20 transparent and public and you should track inventory
21 data without netting the goal tracking data. So, we have
22 four key criteria on the offset approach, real,
23 additional, permanent, verifiable, they're words that
24 people have heard I'm sure quite a bit before, and
25 Maurice will go into a little more detail about those.

1 But I think the main points to take are that
2 actual reductions have occurred, additional is beyond
3 business as usual and, again, we're consistent with the
4 WI protocol but with one time of approach under it, a
5 performance standard approach, which we feel allows
6 objective data to be used to evaluate performance in the
7 marketplace. Permanent or can be backed by guarantees if
8 there's an issue about potentially backsliding or losing
9 the reductions, and verifiable, which encompasses three
10 concepts. If it can be quantified, first of all. You
11 can actually measure the project. It can be monitored.
12 You can actually measure the changes in the project and
13 it can be verified.

14 As we thought about developing and putting out
15 these guidelines, we thought there's two ways that
16 companies may really approach this. One is they may be
17 developing or investing in their own projects, and two,
18 they may choose to purchase offsets or registered
19 reductions or whatever the 50 separate terms for them in
20 the voluntary market are. So, we're developing
21 guidelines, and I'll talk about them in the next slide
22 for both of those types of approaches.

23 We've also developed over the past year project
24 accounting methodologies for six different project types,
25 which were out on the front table. They've all seemed to

1 have disappeared at this point, so they're available on
2 our website as well, which is www.EPA.gov/climateleaders.
3 It also allows partners to develop methods for the types
4 we've not yet developed.

5 The final component is EPA does an internal
6 review for the project summary and data. So, we're
7 taking verification certification component and
8 maintaining that as a government function, not an
9 external third party function. So, the fact sheet was
10 out on the table as well. It gives an overview of using
11 external reductions to help achieve a Climate Leaders
12 goal. There are draft guidelines for developing or
13 investing in offset projects, which we're currently
14 working on that will be released hopefully within a month
15 or so, and there's also draft screening criteria for
16 purchasing greenhouse gas reductions which we're also
17 working on. So, this is the overview of the process we
18 have put together.

19 Under the guidelines for developing or
20 investing the offset projects are those project-specific
21 methodologies I have discussed that Maurice will go into
22 a bit more detail about. The other thing we're going to
23 be developing under the more detailed guidelines is a
24 generic project protocol where companies or people in the
25 market are looking to use this type of methodology, can

1 use that to develop their own methodologies for project
2 types which we haven't done.

3 And what Maurice will talk about in a bit I can
4 mention here is that doing a performance standard
5 methodology takes an awful lot of up-front work and time
6 and effort. You need to find a good data set within the
7 country you're doing things on to compare it to, and we
8 don't have unlimited personnel or resources at EPA, so
9 we're open to people developing those and bringing those
10 in for review for this program.

11 The other thing that we've announced under the
12 purchase guidelines, and I, again, put a bunch of copies
13 of those out there, is green power purchases. So,
14 companies that are looking to go out and buy green power
15 or to buy RECs from the voluntary marketplace, the key
16 points on that are that green power is an effective way
17 to reduce the environmental impacts of electricity use.
18 I don't think there's any controversy about that. I
19 don't think anybody said anything this morning that would
20 contradict that.

21 The second point is that EPA has a definition
22 for green power sources. It's not a technology specific
23 definition. It's what -- sources have a superior
24 environmental profile and no manmade emissions. So,
25 again, we're using work that some other experts at the

1 EPA have done for the definitional issues, and Matt
2 Clouse will be on a panel later this afternoon if there's
3 questions on that.

4 So, for Climate Leader's goal tracking
5 purposes, what we've said is green power may be used to
6 adjust the indirect emissions from electricity use. The
7 guidance doesn't address on-site or non-grid connected
8 renewable energy. The other thing that's new here, I
9 think it was mentioned earlier, that there were average
10 versus marginal rates. There is a new E-grid data set
11 out there that has some marginal rates for various
12 regions of the countries. So, this guidance uses the new
13 marginal factors based on non-baseload emitting
14 technologies.

15 Part of the important consideration on using
16 green power to adjust electricity emissions are both an
17 ownership consideration and an accounting consideration
18 of how accurate the actual project accounting is.

19 The other thing I should mention we released in
20 the past year is guidance on companies using carbon
21 neutral goals, and that has a couple of components to it.
22 One is expanding the inventory boundary to include
23 optional sources. That would be things like business
24 travel, employee commuting, product transport, things
25 that aren't required under the program requirements but

1 that companies could do. So, the first thing you need to
2 do is expand your boundaries if you're going to make a
3 carbon neutral claim.

4 The second thing is achieving significant
5 internal reductions. Companies need to have a reduction
6 goal that we would be comfortable announcing as an
7 external goal for achieving their reduction. So,
8 efficiency, on-site renewables, processed fugitive must
9 meet a performance benchmarking test similar to the other
10 goals.

11 The final component of that is purchasing the
12 external reductions either green power or REC for the
13 part that companies are not able to reduce internally.

14 So, the key points to take away from this
15 workshop is that EPA has significant expertise on a lot
16 of these issues relating to greenhouse gas inventories,
17 reduction goals, offsets, green power purchases. We have
18 released guidance on this for offsets for green power
19 under Climate Leaders, also under our Green Power
20 Partnership. We've also released detailed accounting
21 methodologies at this point for six project types plus
22 green power purchases with, in the fact sheet, the option
23 to expand on those project types. So, I would expect
24 some more to be released in the next year.

25 Then the final thing to take away on this is I

1 think marketing claims based on the use of these types of
2 methodologies should help add significant credibility in
3 the marketplace. You now have a government agency
4 responsible for the environment that has put some pretty
5 detailed guidance in place for these things and as
6 marketers begin to call companies and talk to people
7 about this, you can now say, well, do these things meet
8 the requirements that EPA has put out there.

9 So, the other thing is that that gets you part
10 of the way, but there are still a couple of components
11 missing. Because we're doing an internal EPA review of
12 these projects for Climate Leaders, there's no provisions
13 for external verification certification in the
14 marketplace. So, companies can say we've met the
15 accounting principles that EPA has put out there, but
16 it's not going to be EPA reviewing that for the voluntary
17 marketplace. So, there could be opportunities there.

18 The other thing is there's really no national
19 registry on reduction and offset-type projects. To
20 ensure double counting, you really want to make sure that
21 there's some sort of serialization of the tons, some sort
22 of upstream, you know how many tons a project is
23 generating and that they're sold only once and retired.
24 So, that's another thing, again, with the program and our
25 own internal review is not necessarily covered under

1 this.

2 So, I just wanted to leave with those thoughts
3 and then there's some contact information for folks on
4 our staff and our team up here if you're interested. So,
5 thank you.

6 **(Applause.)**

7 MR. NEWSOME: Thank you. I wanted to thank Jim
8 for coming in. Maurice told me this morning he thought
9 Jim was out sick and I was concerned because I thought I
10 was going to have to give his presentation. I don't
11 think I would do a good job. But thanks a lot for coming
12 in.

13 All right, Maurice.

14 MR. LeFRANC: Thanks, Hampton. Jim's spilling
15 water and has water all over the laptop here, so I hope
16 I'm okay.

17 I'm just kind of going to jump in now. I
18 thought the presentations this morning were excellent. I
19 thought they really sort of teed up the issue and,
20 particularly, the first two FTC presentations, which teed
21 up what the problem is, is you have a market -- and I'm
22 not sure it's actually a market as it's just a lot of
23 individual buyers on a personal consumer level who are,
24 for the right reasons, maybe doing things that don't have
25 the consequence that they believe they may have.

1 So, essentially, what I wanted to do is walk
2 through a bunch of different points. So, the elements
3 that Jim talked about, they build on what Eric had put
4 together for the WR/WBSCD protocol.

5 At EPA, we have been involved in offsets, I
6 have been and some others on our teams since actually
7 back in the '80s when the U.S. had a voluntary program,
8 the U.S. Initiative on Joint Implementation, I think
9 Linda was involved in that as well. We then worked on
10 CDM when the U.S. was in the negotiations on Kyoto and
11 wrote a lot of the text that was used eventually for
12 Kyoto for the Marrakesh Accords operationalizing CDM.
13 We've recently been working with Jim and his colleagues
14 on the Climate Leaders Program. We worked for quite a
15 while with Derik on the WRI protocol and the performance
16 standards side and others. The performance standard,
17 which I'll talk about a bit in a second, has been picked
18 up by the RGGI approach and by the CCAR approach that
19 they've done for some of their methodologies.

20 So, I'm going to walk through a number of
21 different points. Again, what we're getting at, and I
22 think Jim teed the point up, is that as a government
23 agency we're not regulating greenhouse gases at this
24 point. We're not setting a standard that's a regulatory
25 standard, but we have set a standard by doing these

1 methodologies for the Climate Leaders Program and we're
2 trying to maintain consistency, transparency, et cetera,
3 through that.

4 So, I want to walk through our points that I
5 think -- the topic of the workshop is to consider what
6 the public or what the consumer should understand as
7 they're considering voluntary offsets. So, I think the
8 first thing, which I don't have on here, is really a
9 clear project description. What is the project you're
10 talking about? There are lots of different kinds of
11 forestry projects, aforestation, reforestation. Are you
12 talk about converting crop lands to forest, pasture to
13 forest, what are the consequences of what that
14 description is? So, that should be one thing that should
15 be clearly communicated.

16 One thing that we've spent a lot of time on,
17 and this is the first point that I have up here, is that
18 data that's publicly available in order to set an
19 additionality threshold, and I'll talk about that in a
20 second, and to set the baseline, it's probably the thing
21 that takes us the most time. We have used a number of
22 contractors, technical experts, EPA people, to get at
23 what is the most recent data set, what's the most
24 thorough data set.

25 We look at the U.S., at this point, and say

1 what data set represents what's going on in this project
2 type in this sector across the U.S. or regionally? And
3 to me it's one of the most complicated but it's the
4 essential thing to say, if you're talking about business
5 as usual, beyond business as usual as a performance
6 standard or as an additionality test, I'm not sure how
7 you can do that unless you know what's going on around
8 that project. Again, as Jim said, we've moved in the
9 performance standard approach rather than sort of an
10 intent argument for additionality.

11 What I'm going to do when I finish with these
12 bullets is walk through a few of the project types we
13 have done which make it a little clearer.

14 The second thing is in our work and we think
15 clearly in the offsets world the offset projects should
16 be surplus to regulation. So, we have done thorough
17 reviews for each project type what federal, state, local
18 regulations are out there that would say one must do this
19 project because you're regulated in a manner. Again,
20 I'll fill in by talking about specific project types.

21 The question is, how does that play in
22 advertising claims or claims for a voluntary market by
23 providers. How is that communicated? Particularly when
24 you get to the state and local level where it's not clear
25 other than walking through every possible regulation in

1 the state, it's not clear how you do that. But it also
2 is key because our position is you can't do a project and
3 claim a reduction if it's just being done for regulatory
4 purposes. Additionality -- again, what we do is we
5 defined additionality in a performance standard, and a
6 definition we use and then operationalizes that
7 additionality represents a level of performance that with
8 respect to emissions reductions or removals or
9 technologies or practices is significantly better than
10 average compared with similar recently undertaken
11 practices or activities in a relevant geographic area.

12 So, what we're clearly doing is looking at
13 what's happening around the place where that project is
14 being proposed. If everyone is doing without a carbon
15 benefit, if everyone is doing a certain project type, one
16 would wonder if it would be considered additional. And,
17 again, what we look at is we separate out the
18 additionality test and baseline test. An additionality
19 test is a threshold. It's either a technology threshold,
20 again looking at the data, what's going on in that
21 project type. So, here's the technology that's cutting
22 edge technology that everyone is using. Therefore, if
23 you're using something that's emitting higher, less
24 efficient, then it wouldn't be additional.

25 Practice base, and, again, I'll walk through it

1 quickly and some of the project types, practice base is
2 saying with's going on around you, how many people are
3 putting digesters on on farms? What's the percent doing
4 it? And then emissions rate, we look at particularly in
5 like industrial projects, what's the rate per unit of
6 output of emissions and then we set a performance
7 threshold that's significantly better than average. Top
8 20 percentile, top 15 percentile. Again it varies by
9 project type.

10 We also set a clear baseline and communicate
11 this. We say, for example, for a retrofit the baseline
12 would most likely be what's your annual performance over
13 a period of time? For a new project, again, it relates
14 to the data set and the additionality test that you still
15 would be expected to be compared to a baseline that's
16 performing either at average or better than average.

17 We also look at if you're in a capped region
18 and the sector that you're wanting to work in is a capped
19 sector, I think this could come up in RGGI right now, for
20 example, that you couldn't be doing an offset project in
21 that cap sector. I think there may be some questions
22 later about this. There may be other sectors within the
23 region which aren't capped where you could do an offset
24 project.

25 Again, I think Jim hit a little bit on the

1 issue of double counting. How do you track what's going
2 on, how do you know that the credit that you bought here
3 someone else didn't buy somewhere else? Again, is there
4 a registry system? Climate Leaders would have that, but
5 communicating to the consumer how do you ensure to the
6 consumer that they're not buying something someone else
7 has already bought.

8 The NEXA bill (phonetic), it's well-documented,
9 reductions linked to a specific project. There are some
10 of the websites where you can look and you can say I'm
11 buying or at least you're under the impression you're
12 buying reductions from X project. There are others that
13 sort of mix a variety of offset projects or even mix RECs
14 in there. Our thrust would be that you would have to be
15 able to track back the reduction you're buying or you're
16 claiming to a specific project. Again, it goes to this
17 data sets, the information that you're providing to
18 assure that that project actually is leading to a
19 reduction.

20 I won't say much about validation verification.
21 What we require in all of our methodologies, we outline
22 what the acceptable monitoring approaches would be.
23 We're working with Jim and others in Climate Leaders now
24 on what are the program design issues around validation,
25 verification. Is the third party or EPA people? My

1 sense is to some degree EPA people would be involved in
2 the verification.

3 And, again, without going into a lot of detail
4 because I'm going to run out of time is there would be
5 provisions to address leakage, and leakage for us is
6 activity shifting. So, I did something here that caused
7 an emissions over there. We require that to be
8 addressed. Permanence as well. I have done a project
9 but for some reason that project is going to disappear.
10 Generally, it's linked to forest projects, but it could
11 be in a variety of cases, it doesn't just have to be
12 forestry. There are lots of provision, insurance
13 provisions, temporary credit provisions, et cetera. But
14 one must be clear that if I bought this reduction from
15 this project that it just doesn't disappear a week later.

16 Again, the one thing that we clearly require is
17 that there are ex post reductions. A reduction is not a
18 reduction until it occurred. So, there's no forward
19 crediting, no forward reductions.

20 So, I'm going to kind of walk through a couple
21 of project types just to say what we do. What we do is
22 look at recent historic data for the country and then we
23 look to see whether there are regional differences in
24 that data set. And that's again to look at our
25 definition of additionality that we're comparing with

1 similar activities, similar geographic areas.

2 It goes to the last point I think that Derik
3 was making, that there are standards and then there's
4 policy setting. So, to a degree, what we're doing for a
5 voluntary program at EPA is setting the policy and saying
6 we have methodologies, if you do a project, we will use
7 similar methodologies for purchase reductions or similar
8 expectations.

9 So, I'll just walk through a manure project we
10 do and just quickly say what we would look at. For
11 manure management projects, we look at data sets. So, we
12 look at the U.S. EPA inventory of emissions which
13 characterizes manure management efforts around the
14 country, a census of agriculture, and then EPA's Agstar
15 program which tracks digester and manure management
16 projects. So, we define the project type as an
17 installation of anaerobic digester either at a dairy or a
18 swine operation. Jim said if someone wants to come in
19 and have some poultry operation, they could come in with
20 a methodology consistent with what we're doing with data
21 sets. We just haven't done that with what we have done.

22 We then define for the project, we say what are
23 all the components of the boundaries? So, we have a
24 physical component. So, it's confinement areas,
25 collection systems, et cetera. We say what the boundary

1 would be as far as the greenhouse gases, so we actually
2 say what are the gases you have to consider? For manure
3 management, we really don't get into leakage at all.
4 There's not really an expectation of leakage. There are
5 no federal regulations, so that's really not an issue in
6 that project type.

7 Additionality is practice-based. Only .07
8 percent of dairy farms and 0.2 percent of swine
9 operations have digesters on them. So, we feel the
10 practice of someone putting a digester to us is clearly
11 additional. There's no sort of incentive to do that
12 right now, or a small incentives. And, again, it's only
13 additional if you don't have a digester already in place.

14 The baselines that we look at are the current
15 management practice. What are you doing to manage manure
16 right now? We provide detailed equations in our
17 methodologies which you could walk through and just
18 simply calculate -- first estimate and then calculate
19 your reductions and then outline monitoring.

20 I will go very quickly to aforestation and
21 reforestation. We use data sets from USDA, the National
22 Resources Inventory. We define aforestation and
23 reforestation because we're not getting into temporal,
24 what was the land, we're looking at crop land and pasture
25 land that would be converted to forest.

1 Our physical boundaries, the land area you're
2 dealing with, the gases are primarily the CO2 removed
3 from the atmosphere with some consideration of nitrous
4 oxide and then emissions from the equipment or activities
5 that are involved in the reforestation.

6 Leakage is one which we have included in our
7 approach. Again, it's activity shifting and we're
8 working more -- we have some default values in there for
9 different regions. What we have done here is picked the
10 regional breakdown in the NRI to say essentially what we
11 look at with additionality, again, the percentage of
12 conversion of crop land to forest is very low. We look
13 at the background rate of crop land/pasture land being
14 converted either to forest to either crop to pasture,
15 pasture to crop, or to development. We consider that a
16 background rate and that comes into play when we set the
17 baseline.

18 We say this is how much would be converted,
19 this is how much carbon would be stored over a 20-year
20 period. There are generally no federal regulations. So,
21 we're not really looking at a regulatory screen, even
22 though there are some voluntary compensation programs
23 that we would consider. Again, we provide detail
24 equations, we outline what monitoring approaches should
25 be used. And, again, what we're looking for is sort of

1 to transfer back to the topic at hand is that what our
2 expectation would be and Climate Leaders and what we're
3 doing is not to say we would pick certain providers, we
4 would pick certain reductions that are valid, we would
5 set a set of screening criteria that would track with
6 what we're talking about here and saying anyone could
7 come in and any Climate Leader partner could come in with
8 purchase reductions as long as they're following the
9 screening criteria. That was one of the to-do things
10 that Jim outlined. Thanks.

11 **(Applause.)**

12 MR. NEWSOME: Thanks, Maurice. Ed.

13 MR. HOLT: Good afternoon. First, I want to
14 thank the FTC for inviting me to speak to you this
15 afternoon. I was asked to focus particularly on the use
16 of RECs, renewable energy certificates, as offsets and to
17 raise and identify particular issues out in the
18 marketplace.

19 As you heard a little bit this morning, there
20 are a number of REC marketers or green power marketers
21 that do make carbon CO2 benefits, and certainly, there
22 are many voluntary purchasers who expect to receive or
23 expect to claim at least having produced carbon benefits
24 from their REC purchases. But what are they getting and
25 how do you prove that?

1 One of the issues that actually I think Lori
2 Bird mentioned this morning was she talked a little bit
3 about differences in definitions of what a REC is.
4 Certainly, there are -- first of all, some states with an
5 RPS generally have addressed this question. States that
6 do not have an RPS have not addressed it. But those who
7 have addressed it, there are variations in what's
8 eligible, what kind of technology is eligible, and what
9 comes with it. Most of those states say the RECs include
10 the environmental attributes, but they don't go on to
11 specify just what those attributes are.

12 Is it specifically just the direct on-site
13 emissions, for example, or is it what I would call the
14 derived or potentially off-site emission reductions?
15 They don't really address that, and that leads to one of
16 the key issues in using RECs as offsets is uncertainty
17 whether the REC includes an emission reduction.

18 In an uncapped market, these emission
19 reductions could potentially be claimed by two parties.
20 The reason is that the renewal energy generator that made
21 the investment, generated energy into the grid, caused a
22 fossil fuel generator to back off. But then there's also
23 the fossil fuel generator that reduced output on-site who
24 might also wish to claim that same reduction. Generally,
25 the renewable energy generators are the ones that are

1 making the claim.

2 Fossil fuel generators, to my knowledge, are
3 not making the claim in any marketing terms, they're not
4 making sales of emission reductions. So, in that sense,
5 there may not be much of a conflict, but those same
6 fossil generators might be registering their emissions
7 outputs in some of these registry databases.

8 Well, what happens is that under the greenhouse
9 gas protocol that both Derik and Jim talked about, the
10 practice is that the emission reductions assigned to the
11 fossil fuel generator as a direct or Scope 1 emission
12 reduction, while at the same time the purchaser of the
13 renewal energy may make a claim to the reduction as an
14 indirect or Scope 2 emission reduction. In a sense, it's
15 kind of a sanctioned -- I almost don't want to say this,
16 but it might convey it better. It's a sanction double
17 counting where because they're in two different columns,
18 they're in two different categories, it's okay. It's
19 kind of like double entry bookkeeping. You have a credit
20 over here and you have a debit over here.

21 But that leads to some uncertainty about what
22 claims can be made. Or you have to be precise about the
23 types of claims that are made. In fact, I have seen a
24 number of renewable energy marketers or REC marketers
25 that are beginning to market their product or make their

1 claim in that kind of a term, that it's indirect to
2 offset your electricity purchases.

3 The last point on this slide that I wanted to
4 make is that the distinction may work for RECs as offsets
5 to electricity emissions, but it doesn't really clearly
6 address, at least to my limited knowledge about the
7 greenhouse gas accounting procedures, it doesn't really
8 address how RECs sold as offsets to say transportation or
9 other activities might work. Maybe it doesn't work for
10 them, so that could be a problem.

11 In terms of substantiation of claims, I would
12 say, first of all, that for RECs -- I'm speaking for a
13 minute just about RECs only, not about offsets --
14 verifying REC claims is much easier and simpler because
15 of the fact that there are a number of state or regional
16 certificate tracking systems that have been established
17 around the country. In fact, Lori again showed a slide
18 this morning, a map of the states that showed big regions
19 that are covered by these REC tracking systems that
20 ensure that there's no double counting and that the RECs
21 sold for voluntary purchases are not also used for
22 mandatory compliance.

23 Most of the country, as I say, is now covered.
24 In fact, the area that Lori showed in the map from Kansas
25 down to Florida, through the southeast, there is a

1 proposal to establish a tracking system there as well.
2 So, the point I take away from this is that for REC
3 purposes double counting is very unlikely. These
4 tracking systems make independent verification much
5 easier, and essentially REC tracking goes a very long way
6 to satisfy the substantiation needs for marketing RECs.
7 But as I say, again, not specifically for offset claims
8 because the megawatt hours, they're very clearly measured
9 by meters. They're tracked and they're pretty much
10 secure from tampering.

11 Now, for voluntary emission reductions, they
12 may still be double counted because the emission
13 reductions are not tracked. They could be tracked,
14 there's no technical reason why the tracking systems
15 couldn't do that, but there's no policy direction that
16 clarifies the point about who gets to make that claim on
17 the emission reduction.

18 Another point that was raised or has been
19 talked about is this issue of additionality. This
20 morning we heard a little bit of talk about whether or
21 not the -- well, essentially, additionality as this
22 project, would it have occurred beyond business as usual?
23 And there are a number of different tests that are
24 applied, some of them jointly, it's not just pick one,
25 but several of them together.

1 Is it new? Is it additional to what is
2 mandated or what's required? The third one is this
3 financial test, would the project have been undertaken
4 without the carbon offset revenue? And the last one is
5 the one that Maurice was talking about, really a
6 performance and technology test, is it really new
7 technology or is it high performing technology that is
8 not common?

9 This was getting a lot of debate and discussion
10 in sort of email traffic that I was seeing over the past
11 year, but I think in the last several months it seems to
12 have quieted down quite a lot. I'm also encouraged by
13 the fact that both the Center for Resource Solutions and
14 the Green-e Program and EPA have identified that
15 renewable projects are additional, A, if they're new and
16 if they meet the performance tests. It's very difficult
17 to do this on the financial side of things because a
18 renewable project gets multiple sources of revenue and
19 it's very hard to determine which stream of revenue is
20 the one that really put it over the top, which one comes
21 first, which one comes at the last, which is the last
22 increment. It's not, in my mind, a very practical way of
23 applying the additionality question.

24 There are other issues going more to consumer
25 interests. There's a lot of confusing terminology out

1 there, at least it's confusing to me, and if it is to me
2 I assume it is to people who don't spend a lot of time on
3 this. We talk about offsets, we talk about emission
4 reduction credits, and there's verified emission
5 reductions and sometimes I read that as voluntary
6 emission reduction credits. I'm not sure if there's a
7 difference. Certified emission reductions and the
8 Chicago Climate Exchanges uses these carbon financial
9 instruments. So, this terminology can be somewhat of an
10 issue that education through the FTC or through marketers
11 could help.

12 There are multiple seals of approval. We heard
13 some of that this morning. I think we'll hear a little
14 bit more about that later this afternoon. And the
15 question of measurement, there are different ways to
16 measure the reduction, whether it's based on average
17 emissions avoided or whether it's on marginal emissions
18 avoided. I don't know that that's really a problem for
19 consumer protection because in either case whatever you
20 use as long as it can be backed up, as long as you can
21 prove it, but it would be helpful, I think, if there were
22 some more generally accepted consensus on what's the best
23 way to measure it.

24 Finally, I just wanted to throw up an example,
25 an effort really to try to put into practice what I have

1 understood over the years, some of the guidelines for
2 green marketing that we have seen from the FTC. I first
3 used this slide, actually I think it was nine years ago,
4 it wasn't used quite the same way but I still called the
5 product Windex. This is not the same that you heard
6 about on My Big Fat Greek Wedding. Remember the guy who
7 is using Windex as all kinds of cures for Jim's cold or
8 anything else? But it's Windex to indicate that this
9 wind product doesn't include everything that you might
10 imagine.

11 So, this one is specific, first of all, it says
12 reduce your greenhouse gas footprint. Then have this
13 little asterisk that hopefully isn't too small type that
14 says something that consumers won't understand anyway,
15 but at least it's specific, it says, provide Scope 2
16 emission reductions per the greenhouse gas protocol. And
17 it further clarifies that this product Windex supports
18 wind energy projects fortified with carbon reductions.

19 So, it's carbon reductions, it's not NOX, it's
20 not SOX, the other kinds of emissions that might come
21 along with generation for various reasons that are not
22 included. So, because you don't want to give a general
23 impression that all this stuff is being avoided, you have
24 to have the footnote that says carbon is a principal
25 greenhouse gas, it just explains what that is, but it

1 does not include sulfur dioxide and nitrogen dioxide
2 reduction benefits.

3 Then there are a couple of other things you
4 could throw in there such as certified by Safety REC,
5 which is just something that we made up, thank you,
6 Hampton. And independently verified and maybe that --
7 you know, for people who don't really know enough about
8 that, they say, oh, Safety REC, I know about them, that's
9 good enough for me, I don't have to do all that
10 investigation.

11 Finally, another point that was made this
12 morning, I think in one of the first presentations, to
13 point out the location of this. The wind generators, in
14 this case I'm saying it's located in Oregon, but the
15 environmental benefits for carbon emissions are global.
16 So, it doesn't really matter where it's located and you
17 still get those benefits.

18 So, with that, I would like to close and I
19 think we'll be ready for questions. Thank you.

20 **(Applause.)**

21 MR. NEWSOME: Thanks, Ed.

22 Let's start off with a short discussion about
23 cap and trade because we had some questions this morning
24 on that that we didn't get a chance to get to. I was
25 wondering if you all could discuss the intersection

1 between the mandatory markets and the voluntary markets,
2 and in the REC market, we're generally talking about RPS
3 standards, but in the offset market there is a lot of
4 discussion about potential cap and trade in the future.

5 What I would like to do is impose on Maurice,
6 if he could just give a very short discussion or
7 explanation of what cap and trade is because a lot of you
8 know a lot about that, but some of you may not know as
9 much. So, Maurice, if you could kick it off and then
10 after that if anyone else has something they want to add
11 on that, that would be great.

12 MR. LeFRANC: Thanks, Hampton. There are
13 probably a lot of people in the audience, I know several
14 of them, who know a lot more about cap and trade and work
15 a lot more than I do, but I'll give sort of a quick
16 overview.

17 Hampton asked me to just sort of give a quick
18 what is cap and trade. I guess the best place to look
19 right now is in some of the legislation that's come off
20 the Hill in the last year or so. I guess traditionally a
21 cap system with trading, offsets was at best the orphan,
22 kind of the pure cap and trade people, I don't think
23 really had a lot of sort of need or desire to have
24 offsets introduced into the system. But in the recent
25 legislation, I think almost all, if not all, has offset

1 provisions or some provisions like that.

2 So, in cap and trade, the system sets a cap, it
3 picks an amount, picks a year, X percent of 1990 base
4 year by 2020. You would then look at, well, what sectors
5 within that system are you going to cap? And there are
6 certain sectors that are easy to measure and monitor.
7 You could cap those. There are other sectors which
8 aren't so easy to measure and monitor. They may be sort
9 of -- which is the way I think the legislation is playing
10 out is that they may be good candidates for offsets, and
11 then there are things sort of in the middle called set-
12 asides, where you're taking part out of the cap, the
13 allowances, or however you do it, and maybe addressing
14 certain sectors, for example energy efficiency or some of
15 the agriculture projects which are sort of difficult on
16 the cap side or on the offset side.

17 Then one decides whether one does an auction
18 for whatever the allowances would be for the cap or you
19 look at an allocation based on historic emissions and
20 then once the system is set up, participants buy, sell,
21 trade. So, what happens to the voluntary market I think,
22 again, it goes sort of to what some people talked about
23 this morning. Are you talking about the 20 percent which
24 is sort of this consumer market with the warm glow as the
25 speaker said this morning? Or are you talking about the

1 -- I think Kate teed up 80 percent which is corporate
2 which is maybe buying and participating, anticipating a
3 future system. So, where do offsets and RECs fall out?
4 So, I'll defer and let somebody else finish.

5 MR. NEWSOME: Anyone else want to jump in on
6 that?

7 MR. HOLT: I would. One of the comments made
8 this morning was that if a cap and trade system is
9 adopted, the use of offsets would then be moot. Most cap
10 and trade programs include a provision for a specific
11 type of offset under the cap and trade program where they
12 narrowly define what an offset is, what's eligible. So,
13 there would still be some form of offsets in there.

14 But, in addition, there are still people who
15 will want to do things that are additional to what's
16 mandated by the cap. So, for example, if there are
17 individuals or corporations who are not under an
18 obligation to reduce, they may still want to do more to
19 make a difference. And if I understand the greenhouse
20 gas accounting principles, in fact, one that Maurice put
21 up there said something like there can still be offsets
22 as long as they're not under the cap.

23 Well, the renewable energy sector or the power
24 sector would be under a cap, but consumers could still
25 buy renewable energy certificates and make claims if

1 their actions are recognized by the cap and trade program
2 and allowances are retired as a result. A specific
3 example of that that is currently in the regional
4 greenhouse gas initiative program, or RGGI program, that
5 allows states that are part of that to retire allowances
6 on behalf of voluntary demand for renewable energy. And,
7 so, in that sense, while they might not technically be
8 offsets, they do enable consumers to make those purchases
9 of RECs and still make carbon claims.

10 MR. NEWSOME: Derik.

11 MR. BROEKHOFF: Just to quickly follow up on
12 that. I think the key concept here is that if you have a
13 cap on a set of sources and there's any scarcity in that
14 system, in other words without the cap emissions would be
15 higher than the total number of allowances, the emissions
16 in that system are going to tend to rise to the level of
17 the cap. So, if you undertake activities such as
18 renewable energy generation that would reduce emissions
19 from certain sources at a certain point in time under
20 that cap, it's going to free up allowances, someone
21 somewhere is going to buy that allowance, the overall
22 emissions for the year are still going to rise to the
23 total of the cap.

24 So, it's hard in that circumstance to be
25 claiming that you're reducing emissions. The emissions

1 are going to rise to the level of the cap and that's why,
2 as Ed was pointing out, for an emission reduction claim
3 to be credible you have to have this retirement of an
4 allowance under that system.

5 MR. NEWSOME: Jim?

6 MR. SULLIVAN: Just to quickly echo that, there
7 are a lot of people like under the SO2 program, schools
8 buying SO2 allowances to retire on behalf of cleaner
9 air. That's an actual retirement. It's a nationwide
10 cap, it's coming from a source, and you can be sure that
11 one ton of allowance you're retiring is equal to one ton
12 of reduction in that cap level that's actually emitted.

13 MR. NEWSOME: Let's talk for a few minutes
14 about additionality. We've touched on that several times
15 today. It is an issue. There are different opinions
16 about how to define additionality, and Ed mentioned that
17 he thinks some of the discussion is changing a little
18 bit. I'm interested in whether other panelists here feel
19 the same way.

20 So, I would like you to just comment on the
21 different approaches out there. Maurice and Jim have
22 talked about the approach that EPA has been developing
23 recently on it. And Jim moved the microphone over to
24 Maurice. But one thing that you may not have an answer
25 for, but something that we're very interested in, and

1 that's whether there is any notion of what a consumer
2 would expect in terms of additionality. If there's no
3 express claim about additionality given, what would the
4 average consumer expect? Are they expecting this product
5 makes a difference in some way and has anyone looked into
6 that at all? Any thoughts on additionality? Maurice?

7 MR. LeFRANC: I don't mind starting. For us
8 under Climate Leaders, it's easier to deal with
9 additionality because what we can say is we've defined it
10 for the Climate Leaders Program. Now, for a general
11 claim for consumers that something is additional, I'm not
12 sure it's quite that easy. So, I'm not sure the consumer
13 actually should be concerned about being additional other
14 than the fact if they're buying what they expect is a
15 real reduction, that there's an emission somewhere,
16 either their own emission or someone else's and they
17 bought something from a project that, at the least, it's
18 zeroing out net.

19 So, to me, that's additional for a consumer.
20 So, I'm not sure whether you have to make an explicit
21 claim that my projects and my portfolio are additional as
22 much as it's an implicit claim that if it's a reduction,
23 it should be something that -- you know, pick whatever
24 definition would not otherwise occur beyond business as
25 usual, et cetera, et cetera. I think getting hung up --

1 I think Ed's comment that it's calmed down, I think that
2 people have just gotten tired of sort of talking about
3 additionality theoretically or in the abstract because
4 there's no answer. It's something different. Financial
5 intent, barrier tests, et cetera. It's not really until
6 you put it operationally in a policy or a regulatory
7 program that it really then has a meaning.

8 So, I think across all sorts of providers, I'm
9 not sure there's really a meaning for additional, but
10 other than the reductions, I mean, I think the principles
11 Derik put up, real measurable, the same set of principles
12 everyone is using. That's what's key.

13 MR. NEWSOME: That's very helpful. Anyone
14 else? Let's go with Ed.

15 MR. HOLT: I'd just like to -- well, I guess
16 I'll express an opinion and then I'll state what I think
17 is a fact. My opinion is that many consumers do expect
18 their purchase to make a difference. Otherwise, they
19 wouldn't spend more money for it. So, making a
20 difference means that it's additional to what would have
21 happened otherwise. The debate is about how you
22 determine what's additional, not whether or not consumers
23 expect it to be additional. That's my opinion.

24 The fact is I don't think there is any consumer
25 research specific to this issue that is generalizable,

1 widespread, based on any large sample or anything like
2 that. So, I think that's yet to be undertaken. So, I
3 wouldn't want you to reach any conclusion based on
4 opinions that many of us do have.

5 MR. NEWSOME: Okay. Let's go with Derik and
6 then Jim.

7 MR. BROEKHOFF: I second Ed's opinion,
8 basically. I'm not aware of any market research out
9 there, but I think there is a general expectation among
10 consumers, retail purchasers in particular, that their
11 payment is making a difference that is implicitly there
12 is some connection between purchasing an offset and a
13 reduction occurring.

14 I think, in concept, that's what additionality
15 is. You're really trying to figure out, again, sort of
16 on a theoretical level, did the payment make a
17 difference? And to generalize that, would this project
18 that's reducing emissions have happened in a situation
19 where you have no carbon offset market? The issue, of
20 course, is that's easy enough to describe in concept or
21 theory, the question is how do you test for
22 additionality. That's where I think probably most
23 consumers don't have a clear expectation. It's something
24 that's been debated among the cognizante (phonetic) for
25 years.

1 There are different approaches to how you
2 answer this question about what would have happened or
3 would the project have happened anyway. And many
4 legitimate approaches -- I think the approach that the
5 EPA has taken is a perfectly valid approach.

6 The one thing that I would admonish I guess is
7 that in proposing different additionality tests or
8 rejecting certain tests, you still have to keep your eye
9 on the prize, that is this underlying idea of what
10 consumers are expecting, is the payment making a
11 difference. And the test has to have some bearing or
12 relevance back to that question in helping to answer that
13 question.

14 MR. NEWSOME: Thanks. Jim.

15 MR. SULLIVAN: I think those are all good and
16 valid points. The one thing to remember in all this is
17 in inventory and doing what emissions are is an
18 accounting call. And when WRI did the GHG protocol, it
19 was pretty easy to come to consensus on how you measure
20 what an emission is. But coming across as a reduction is
21 a policy call. It's a lot more difficult to value what
22 not having that emission from the smokestack could be,
23 and if you do a poll of 100 consumers, I think you could
24 probably range from one person saying until you knock the
25 smokestack down it's not good enough to another person

1 saying every time I flip a light switch or decide to walk
2 to the store instead of drive, I've done something
3 different than I otherwise would have, so it's good
4 enough for me.

5 So, what we've tried to do with this is at
6 least turn our policy calls based on objective publicly
7 available data, so that everybody out there can see the
8 data set, you can see what's going on in the market, you
9 can see where we have made our cut off, you know, needs
10 to be 50 percent or 75 percent better. There's a lot of
11 history in this at the EPA. We started with Energy Star
12 back in '91 or '92, identifying the top 25 percent of
13 performing products in a certain product category.

14 I think when you get to a sophisticated
15 corporate purchaser, who Maurice and some others have
16 mentioned, about 80 percent of this market is probably
17 corporate purchasers at this time, it can be a little
18 more complicated message. When you get to a consumer, it
19 needs to be a pretty simple here is a label, here is
20 something that shows you that.

21 One thing I will point out I didn't mention in
22 my presentation is that there were a couple of slides
23 earlier about the concept of additionality as relating to
24 renewable energy markets. In our sheet out there, we
25 have a data set in the country showing renewable energy,

1 it's listed under the EIA data as the other renewables
2 category, it's 2 percent of existing capacity. A lot of
3 that is put into place due to RPSs and other regulatory
4 policies, and we're up here fighting over whether one
5 wind turbine or another one is additional. If you pull
6 back a second and look at the big picture, come on,
7 people, it's good projects, it's helping the environment,
8 and people are not choosing whether to invest in one wind
9 project or a turbine next door. They can choose to
10 invest in coal, they can choose to invest in natural gas,
11 they can be putting those resources into looking at
12 future nuclear. It's power generation that's the key
13 there.

14 So, when you look at it that way with kind of a
15 data set to back it up and see that, I think these
16 individual arguments about the specific projects become a
17 little more put in perspective.

18 MR. NEWSOME: Okay, well, thanks. That's very
19 helpful. We just have a minute here, so to segue to our
20 next session Janice is going to do certification, we have
21 two questions that were from the audience that were very
22 good segues and whoever asked them can pick up a
23 LumaGreen light bulb afterwards.

24 But the question was, they both basically
25 related to the nexus between the EPA Climate Leaders

1 Program, the protocols you have, and existing third party
2 certification programs that are out there and whether the
3 participants in your program have to follow both or
4 whether they can get credit for following other
5 certification programs.

6 MR. BROEKHOFF: I think we're pretty clear on
7 the fact sheet on that. We have done some road testing
8 and benchmarking that we're not ready to make public yet,
9 but I think the gist of what we're starting to find is
10 that even if you use two similar methodologies that on
11 their surface appear very similar, very quickly the 1 and
12 2 percent differences on a lot of the assumptions like
13 combustion rates and the things that you wouldn't think
14 about add up to a very different number for overall
15 project reduction tons.

16 So, what we have said at this time in the fact
17 sheet and in the methodologies that if companies under
18 Climate Leaders want to use external reductions, the
19 project that they're purchasing from needs to be
20 evaluated using our accounting methodology and it needs
21 to have the total number of tons certified using that
22 particular methodology. So, as I have said, we only have
23 six to seven methodologies out there at the moment.
24 We're planning on working on some more. And there is a
25 provision for companies or for marketers or people who

1 want to use those to come in with their own
2 methodologies, their own data sets that are consistent
3 with that and do that.

4 But I think one of the dangers of the market is
5 having certification or review that allows five different
6 methodologies for a landfill gas project and what you are
7 going to end up with in the market is people shopping for
8 the most lenient methodology. They might all be fairly
9 similar, it might be something as simple as the global
10 warming potential. Somebody is going to use the SAR
11 value of 21, somebody is going to use the TAR value of 23
12 which is more recent but not based on the framework
13 convention negotiation.

14 So, at the moment, we're certainly thinking
15 that companies in Climate Leaders should use our
16 methodologies, it's not to say anything about companies
17 outside of that or what consumers are buying because
18 there's very valid reasons for some of those choices, but
19 we wanted to eliminate as much as possible that shopping
20 for the most lenient methodology.

21 MR. NEWSOME: Okay, all right.

22 MR. LeFRANC: I just want to add really
23 briefly, it's hard to tee up if you think about how many
24 pieces of legislation have come out in the last year on
25 cap and trade, how many companies are participating in

1 programs like Climate Leaders, there's something longer
2 term out there and I think from our perspective we have
3 to be careful what's teed up for the longer term. And I
4 think that companies would be clear that they're
5 participating Climate Leaders, registries, et cetera,
6 anticipating what comes next. So, I think for our
7 program we're trying to make sure that internal to our
8 program, we're being consistent. But I don't think that
9 affects sort of the consumer side, the 20 percent that I
10 think is the consumer purchases.

11 MR. NEWSOME: Okay. Well, I want to thank the
12 panelists. I think this was very useful, and we'll meet
13 back at 2:30.

14 **(Applause.)**
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1 **SESSION 4: CERTIFICATION PROGRAMS AND**
2 **SELF-REGULATORY EFFORTS**

3 MS. FRANKLE: Good afternoon. and welcome to
4 Session 4: Certification Programs and Self-Regulatory
5 Efforts. I'm Janice Frankle, I'm an attorney in the
6 Division of Enforcement and this session's moderator.

7 We have three very insightful speakers for this
8 session: Mario Teisl, Jennifer Martin and Ian Carter.

9 Mario will be our first presenter. Mario is a
10 Professor in the School of Economics at the University of
11 Maine. Mario will be discussing the costs and benefits
12 of certification programs.

13 Jennifer will be our next presenter. As
14 Director of Certification and Analysis at the Center for
15 Resource Solutions, or CRS, Jennifer oversees the Green-e
16 Energy and Climate Certification Program. Jennifer will
17 be discussing CRS's Green-e Certification Program and
18 certification programs in general.

19 Ian is our final presenter. Ian is the North
20 American Policy Coordinator for the International
21 Emissions Trading Association, or IETA. IETA, along with
22 two other non-profits, developed the voluntary carbon
23 standard which Ian will discuss. Thank you.

24 Mario.

25 MR. TEISL: Thanks, Janice. I'm going to get

1 right into it because I'm condensing an hour into ten
2 minutes apparently. So, even though it's sort of labeled
3 like Matt's earlier presentation, this is where we're
4 going to take a different road here. He was talking
5 about the economics and the social cost standpoint. I'm
6 going to look more at the business side of things.

7 I have a slide up here with a lot of labels
8 here, but it's more to differentiate what I'm going to
9 talk about and what Al Levy talked about and some others
10 had talked about this morning. I'm not focusing so much
11 on the information provision part of eco certification
12 programs, I'm going to focus more on the certification
13 part of these certification programs. However, I want to
14 note that how these programs are designed and
15 disseminated wherever affects both the costs and benefits
16 to the firm and to society.

17 Some of the relative metrics that affect these
18 are whether it's a private or a public program, whether
19 it's a single attribute like energy efficiency versus a
20 multi-attribute program, whether it's government or not,
21 whether it's mandatory or not, and whether what I would
22 say is it's partial or full, meaning does it only look at
23 one part of the production process, the certification
24 only, or is it a life cycle cradle to grave analysis?

25 So, what are the benefits of certification?

1 The first bullet is primarily something that Matt talked
2 about and Alan talked about and some others have talked
3 about is how it affects consumers and consumer utility.
4 I'm going to focus more on the second point and some
5 other points later. And that is how does it affect
6 firms? What is it about certification programs that
7 provides an incentive for firms to do these programs and
8 what are the disincentives to performing these programs?

9 Some of the incentives for a firm is that they
10 can increase the revenues, which includes changes in
11 prices and/or sales. It can improve the corporate image,
12 I think Matt had mentioned that earlier. And I'm going
13 to use the word "halo effect" because I'm going to use
14 that later. And, also, it can improve management in
15 terms of cost or risk reductions.

16 Now, in terms of the importance, there's
17 actually not a lot of really good cost and benefit
18 studies out there on certification. Most of them are
19 cost savings analysis, things like that. But from some
20 survey research firms that have done certification, most
21 of them, about two-thirds of them said the reason they
22 did it is to improve their corporate image. It was not
23 necessarily to increase revenues. In fact, only about 50
24 percent of firms that were interviewed indicated that
25 they had any increased -- no, I'm sorry, only 17 percent

1 of firms indicated an increase of revenues.

2 Now, I had mentioned earlier that revenues has
3 to do with changes in prices and/or changes in sales.
4 Now, I want to differentiate something and provide a
5 little more evidence about revenues. In some areas, we
6 have found increases in prices. If you look at organic
7 and fair trade certifications, there have been some
8 documented price increases or price premiums. However,
9 in the forest products market, there's almost no evidence
10 of a price premium there.

11 Related to sales, I want to point out there's
12 two different phenomenon in terms of increase of sales.
13 One I would say would be consumer-driven and I would call
14 that an increase in market share. The other one is more
15 retailer-driven and I would call that increase of market
16 access. There's been a recent phenomenon in the last
17 decade or so of very large retailers being able to impose
18 quality constraints on suppliers that they could not do
19 before and that's partially linked to the size of the
20 retailer like Target or Wal-Mart or McDonald's, Home
21 Depot. It also has to do with the increased technology
22 and traceability in doing identity preservation in the
23 supply chain management. So, anyway, there's these
24 technology changes and size of firm changes that have
25 affected this.

1 In terms of improved management, in terms of
2 cost and risk reductions, we're talking about actual
3 costs of operation or reduced risk, liability risks due
4 to emissions, reduced future regulatory risks and reduced
5 healthcare risks and, again, a survey of firms showed
6 that only about half of the firms that have done
7 certification saw actual cost reductions. About a
8 quarter of them saw cost increases in production, and the
9 remaining about 20 percent or so saw no change in cost.

10 Cost of certifications are hard to get a handle
11 on empirically because there's a lot of costs that
12 traditionally are not counted in some of these studies.
13 First of all, standard setting and enforcement
14 strategies, that has to do more with the design of these
15 things. Those are things that have been taken on by
16 government agencies or non-profits for the most part and
17 not by the firm. So, really some of those costs aren't
18 being covered.

19 The actual compliance and certification efforts
20 are covered in terms of firm costs. Search and
21 transaction costs due to the certification offered or
22 not, this has to take into account that maybe a producer
23 now has to search for new suppliers or that kind of
24 thing. Labeling, marketing and outreach costs, if the
25 firm that certifies actually chooses to participate in

1 those.

2 And then there's this opportunity cost and in
3 some sectors of the market these opportunity costs do not
4 show up in the analyses, but for those that have done
5 them, they are quite large often. Opportunity cost
6 means that when you start maybe having to impose
7 segregation of your product lines, you have now lost the
8 ability to shuffle production across factories or
9 different parts of the factory because some parts are
10 certified only, some places are not. So, there's a
11 reduced flexibility. Some storage units will be emptied
12 because they can't be used because the certified stuff is
13 not in there. They can't shuffle production that way.
14 There's also some financing and things like that that
15 also go in there.

16 Some of the agricultural markets have shown
17 opportunity costs to actually be higher than all the
18 other costs combined. Examples of some of these costs
19 that are included or may be included as part of the
20 actual certification is you have the typical hard costs
21 or conventional costs, new equipment you have to
22 purchase, new storage units, new structures. You have to
23 hire new people. You have to pay for the actual
24 certifying inspection to come in. But there's a lot of
25 soft costs that are not included often in some of these

1 studies. These are all the costs that the firm has to
2 take into account before they get certified.

3 So, some of these certifications that companies
4 have to start a year to a year and a half in advance
5 because they have to start changing their documentation,
6 their reporting, their monitoring of things, they have to
7 maybe do some environmental studies and some modeling,
8 they have to plan how they're going to do things
9 differently. They have to do all this stuff before they
10 get through the certification process, and often those
11 costs are not included.

12 Some of these cost determinants have already
13 been highlighted in the previous panel. They didn't talk
14 about the costs per se, but they talked about differences
15 in stringency levels and things like that.

16 One thing that wasn't picked up on and I'll
17 mention that has a significant effect on costs is the
18 size of the firm or the project. In some of my work that
19 looked at forest certification, you find there's real
20 economies of size with these certification programs
21 because a lot of these costs, the planning, all of those
22 up-front costs are basically fixed. You have to do them
23 whether you're a small firm or a big firm.

24 To give you some examples, if you are
25 certifying a 50,000-acre forest, your per-acre

1 certification cost runs about 50 cents. If you're doing
2 that for a 5,000-acre forest, you're talking about 950
3 per acre. So, you can see there's some real impacts
4 there.

5 This last slide just points out there are other
6 market costs that may not be directly affecting the firm.
7 You have got some trade impacts. You have got some real
8 market power and structural impacts. For example, the
9 example with the economies of scales argument, you have a
10 lot of smaller producers not being able to participate in
11 environmental certification because it's so costly on a
12 per-unit basis and they can't compete.

13 Trade impacts are also similar because you have
14 smaller producers in lesser developed countries plus you
15 don't have the capital and human capital infrastructure
16 for a lot of the monitoring and enforcement efforts. So,
17 even if you are a bigger producer in the lesser developed
18 countries, you don't have the governmental support
19 systems and enforcement systems to allow you to
20 participate. And we're done.

21 **(Applause.)**

22 MS. FRANKLE: Thank you, Mario. Jennifer will
23 be our next speaker.

24 Let me just remind you if you have questions,
25 please fill out question cards and there are folks out

1 there to collect them. Thanks.

2 MS. MARTIN: Thank you, Janice, for the
3 introduction. Can everyone hear me? My voice is going a
4 little bit, so just raise your hands if I start to fade.

5 I'm Jennifer Martin from the Center for
6 Resource Solutions. The Center for Resource Solutions is
7 a non-profit organization. We're located in San
8 Francisco, and we run a variety of programs. The reason
9 I'm here today is that one of the programs that we
10 administer is the Green-e Program. And Green-e is a
11 certification program. We have been running Green-e
12 Energy for ten years, which certifies renewable energy
13 products sold in the voluntary market, and early this
14 year, we're going to be starting Green-e Climate which
15 will be a consumer protection program that applies to the
16 offset industry.

17 Just a little overview on how the Green-e
18 Program is run. The Center for Resource Solutions is the
19 program administrator of the Green-e Program. We have an
20 independent governance board that's comprised of a
21 variety of environmental consumer protection
22 organizations and other experts in the field who make the
23 final determination on our policy. And whenever we make
24 changes to a standard or significant policy changes to
25 how we run our program, we open up those changes to a

1 broad stakeholder review process and stakeholder comments
2 are brought to the board before the board makes a final
3 decision on whether or not to adopt that policy change.

4 We also allow our program participants, so
5 those are utilities and marketers whose are participating
6 in our program, to have a non-voting member on the board
7 so they can voice concerns that are industry-specific and
8 how well the program is working with what they're doing
9 in the marketplace.

10 I'd also like to add that we recently joined
11 ISEAL, which is the International Social and
12 Environmental Accreditation and Labeling Alliance. This
13 is an international non-profit that's aimed at promoting
14 best practice in the development of certification
15 programs in social and environmental labeling, and they
16 promote a variety of activities among their members that
17 include the involvement of stakeholders and just adhering
18 to best practices when you're developing environmental
19 certification programs.

20 I'll give you a quick overview of the Green-e
21 Program. This is a consumer protection program for
22 renewable energy products sold in the voluntary market.
23 We have been around for over ten years now. We certify
24 three product types, renewable energy certificates,
25 renewable electricity sold in markets where there's

1 competitive retail or wholesale markets, and also utility
2 green pricing programs.

3 The Green-e Program provides three main
4 functions. First, our standard defines what is eligible
5 to be called a renewable energy product in our program so
6 that includes which resources qualify, what vintages they
7 need to be, what year the facilities were built, so
8 really old facilities can't participate in the program.
9 We have specifications about no double counting. If a
10 renewable energy is used for compliance with an RPS, for
11 example, you can't also sell it in the voluntary market,
12 and a variety of other specifications in our standard.

13 We conduct annual verification of all the
14 products that we certify, so we require independent third
15 party audits of all the companies who are participating
16 in our program to ensure that supply equals sales, they
17 did no double selling and that they gave customers what
18 was promised.

19 We also do marketing and compliance review of
20 these companies. We have a code of conduct which
21 requires that certain disclosures be made to all their
22 customers, including provision of a product content label
23 to the customer and disclosure of standard terms and
24 conditions and price to customers when they're making a
25 purchase and we review those materials twice a year to

1 ensure that companies are being accurate and full in
2 their disclosures.

3 Also, we review all of their marketing
4 materials, so we require that they submit all their
5 brochures, print, radio and television advertising to use
6 and we review them, one, for compliance with our code of
7 conduct and, also, if we think that they may be running
8 afoul of FTC guidelines or the National Association of
9 Attorney General guidelines on environmental marketing,
10 we tell them and make suggestions about how they can
11 improve their communication about their product.

12 Just quickly, this is similar information to
13 what was presented this morning by Lori Bird. This is
14 just a history of the quantity of renewable energy
15 products that we have certified over the years. The
16 scale is in megawatt hours. You can see when the program
17 first started we were certifying entirely competitive
18 electricity products, and as the market has evolved,
19 we've moved to a program now where the majority of what
20 we're certifying are renewable energy certificates which
21 are being sold separate from the electricity.

22 Moving on to Green-e Climate, which I think is
23 of more interest to the crowd based on questions so far.
24 This is a program that we're going to be launching early
25 this year. It's a consumer protection program just like

1 Green-e Energy, but this one is aimed at greenhouse gas
2 emission reductions or what is normally called offsets.
3 We will certify offset products sold at the retail level,
4 so companies such as Terrapass or carbonfund.org or other
5 sellers who sell offsets at the retail level could choose
6 to join our program if they wish to.

7 We have been developing the standard and the
8 program documents for the past almost two years. We
9 began working with an advisory group in mid 2008 to sort
10 of scope out what market needs there were, where there
11 were consumer protection issues that weren't already
12 being filled by other organizations. In December of
13 2006, we released our first draft of our standard. Since
14 then, we're now in our fifth stakeholder process and the
15 development of the program, which will be ending this
16 month, and then shortly thereafter our board will meet
17 and assuming all goes well, we'll be able to start
18 certifying products within the next month or two.

19 So, what functions is Green-e Climate going to
20 provide? First, we're going to require that all
21 greenhouse gas reductions sold by companies who certify
22 their products with us are independently certified to be
23 real, verified, permanent, enforceable, and additional.
24 We're going to do this by partnering with organizations
25 who perform this. There are a variety of organizations,

1 some of which we've heard about already today, that
2 certify at the project level to ensure that offsets are
3 being created and that they meet additionality criteria
4 and aren't double counted.

5 We're also going to verify that consumers get
6 what they pay for, so we'll be requiring marketers who
7 participate in our program to undergo a third party audit
8 each year where we'll go through their books, look at all
9 of their sales records, look at contract documents and
10 records from registries to ensure that they have
11 purchased offsets in the type and quantity that they
12 promised their customers.

13 And, finally, we're going to require a series
14 of disclosures be made by the marketers who participate
15 and our customers that include telling consumers where
16 the offsets are sourced from, giving links to the
17 programs that certified each offset project so if
18 consumers wish to know more about how that project was
19 evaluated, including what additionality tests were used,
20 they can find out and, also, general information about
21 what offsets are, and then a standard product content
22 label which will include basic information about what the
23 offset is.

24 This diagram is a simplification of how the
25 offset market works. I think we've talked about portions

1 of this today. I just wanted to reiterate there's sort
2 of three stages in how this market is functioning. First
3 is the offset activity or the project. So, this could be
4 anything ranging from renewable energy or energy
5 efficiency to methane capture or a forestry project.
6 There is a certification or validation step that needs to
7 take place here to ensure that the project is additional
8 and to quantify the amount of emission reductions that
9 are produced by it.

10 These emission offsets are then sold to vendors
11 or marketers, and the marketers will often source offsets
12 from a variety of projects and often projects certified
13 by a variety of different organizations. The marketer
14 then bundles these together to create a product and that
15 product is sold to the end consumer.

16 So, Green-e Climate will come in first by
17 identifying which of the project certifiers meet the
18 standards in our criteria, and secondly, by auditing the
19 vendors to ensure that they bought and supplied their
20 customers what was promised.

21 The third area is the consumer claim, once a
22 consumer buys an offset, what can they say about what
23 that means for their corporate environmental performance
24 or their individual performance as a member of the global
25 community? And, right now, there are a variety of

1 organizations who have put forward carbon neutral-like
2 standards or are certifying people to be carbon neutral,
3 but there hasn't been any broad international consensus
4 about how to define what is a meaningful claim from a
5 corporate or a consumer perspective.

6 We have been in conversations with some other
7 NGOs here and internationally about trying to develop
8 international standards on that, but it's still in its
9 infancy and we'd be very interested in helping to move
10 that conversation forward.

11 Just to give a context for some of the other
12 certification programs that have been mentioned, in Box 1
13 this includes programs like the offset certified by the
14 Chicago Climate Exchange, EPA's offset protocols, the CDM
15 gold standard, the voluntary carbon standard. The
16 California Climate Action Registry has some offset
17 protocols. I already mentioned the voluntary carbon
18 standard. There are others, so there are a whole variety
19 of organizations that work in this area, number one,
20 which is certifying at the project level.

21 To our knowledge, there's no other organization
22 in the United States right now who is looking at
23 certifying the product that the vendor is selling to
24 consumer. So, that's where we've tried to focus our
25 effort is to fill that gap in the marketplace right now.

1 I think my time is up, so here is my contact
2 information. All the materials that have been developed,
3 including all the stakeholder comments we have received
4 in the development of these programs, are posted on our
5 website. So, if you would like to get more information,
6 the website is listed here or you could contact me by
7 email or phone. Thank you.

8 **(Applause.)**

9 MS. FRANKLE: Thank you, Jennifer. Ian is our
10 final presenter.

11 MR. CARTER: Good afternoon, everyone, and
12 thank you for the opportunity to speak today. Despite
13 the time constraint, I want to take a quick detour on
14 what I was going to say to be absolutely clear on what
15 the VCS is not, and that runs to a comment about carbon
16 neutral.

17 The VCS really has nothing to say directly to
18 the claim of carbon neutrality. What the VCS is is a
19 standard entirely focused on the common currency of the
20 market, the ton. The fundamental intention of the
21 standard in developing was to address the problem of a
22 real plethora of conflicting information and
23 fundamentally confusing information in the market.

24 Ecosystem Marketplace and New Carbon Finance
25 did an excellent report last summer about the state of

1 the voluntary carbon market. But I think it was quite
2 striking that you couldn't get all the standards that
3 were in the market onto a graph on a single page with
4 anything but the names of them. The intention of the VCS
5 was, therefore, to go to the absolute minimum.

6 There are many, many good credits, crediting
7 standards out there that talk about important things like
8 environmental benefits other than carbon, social
9 sustainability, that sort of thing. Those are all very,
10 very praiseworthy efforts. That was not our focus. We
11 wanted to make sure that every credit in the market was
12 real measurable and additionality. Ideally, all of those
13 other standards should also be VCS compatible and they
14 can be unit, they can be sold under both labels for
15 example.

16 So, in the end, it's meant to form the
17 benchmark for the market, and recognizing that this is
18 going to be an international market, some of the
19 standards say just buy United Nations credits, well, that
20 means you can't do a project in Oregon. Given that over
21 half of the voluntary market is in North America, that
22 just didn't make a lot of sense to us.

23 Some basic assumptions that are made, the focus
24 is on projects that are done, are additional to the legal
25 compliance obligations that the entity doing the project

1 or controlling the source faces. So, that means, yes, it
2 will be difficult to do. You cannot do a renewal energy
3 project for VCS offsets in much of Europe. You can do
4 that in India. At present, you could do that in the
5 United States. At the point that there's a significant
6 regulatory barrier to that, it will become problematic.

7 The focus was on driving innovation and new
8 activity. So, the project start date must be after
9 January 2002 and the earliest crediting period is March
10 28, 2006. I have to confess to you, I have no idea why
11 it's March 28th, but that is the earliest crediting
12 period. The intention is very simple there, it's to
13 promote projects currently under development so that
14 buyers have a fundamental assurance that the capital that
15 is flowing into the market is making some kind of
16 difference.

17 In terms of the design of the standard, first
18 and foremost it looks to ISO 14064, the Part II standard
19 requirements. The VCS only provides additional
20 requirements where the ISO standard is either silent or
21 was seen through market experience that it did not
22 provide enough guidance to the project developers to
23 allow it to proceed. But it is meant to be an overlay at
24 best to the ISO 14064, and that is, in part, very clearly
25 because of the intention to have something that is

1 fundamentally compatible with regulatory programs in the
2 future.

3 Every project can only use approved
4 methodologies either from existing GHG reduction programs
5 such as the United Nations Clean Development Mechanism.
6 But I should point out that the very first non-regulatory
7 methodologies that will be accepted are almost certainly
8 going to be the California Climate Action Registry's,
9 which that approval is currently under process. So, that
10 will be the first truly voluntary standards.

11 Projects will have to use approved
12 additionality tools, such as IETA zone additionality tool
13 for the CDM or recognized methods of calculating and
14 demonstrating additionality, which I think we heard about
15 earlier today about technical substantiation. But the
16 basic intent there is to ensure the projects use clear
17 and transparent methods of calculating the baseline and
18 the achieved emissions reductions.

19 Lastly, and this is, I think, critically
20 important to us, projects are required to use accredited
21 independent verifiers. At first glance, the critical
22 role of verifiers in this standard may pass unnoticed.
23 The verifiers are accountable for their work, and most
24 importantly, they're required to make good on and replace
25 any emissions reductions that are wrongly issued. So,

1 there is an actor in the process with a direct interest
2 in the fundamental accuracy of the crediting process.
3 And our intention here was to assure that projects are
4 not over-issuing emission reductions and are not allowed
5 to double issue or double credit.

6 Projects are registered in a central project
7 database. The host for that is still being identified.
8 There's a current host, and I'm not sure but at present
9 that is out for competitive tender, in fact. All
10 projects under VCS will be registered within that
11 database, making available to the public the project
12 development document, the monitoring plan, the
13 verification reports, and all other documentation related
14 to the project, which we feel is essential to give the
15 public the transparency necessary to have confidence in
16 this standard.

17 All of the VCUs, the voluntary carbon units,
18 are issued through an accredited registry which is
19 responsible for checking that any of the VCUs that are
20 presented to them or projects that are presented for VCU
21 issuance are legally owned and valid. So, there is a
22 point of responsibility there. And any trading of the
23 resulting VCUs is required to go through our accredited
24 custodial services in order to ensure at all times the
25 VCU can be traced to the rightful owner and, again,

1 seeking to address the issue of fraud.

2 With that, I'm happy to take any questions.
3 There's an enormous amount of detail in this standard.
4 It's available both at V-C-S.org and IETA's website,
5 along with the website of our partners in the Climate
6 Group and the World Business Council for Sustainable
7 Development. Thank you for your time.

8 **(Applause.)**

9 MS. FRANKLE: Thank you, Ian. Now we're in the
10 question-and-answer session. This is a question for all
11 our panelists. As part of our green guides review, we're
12 considering whether the guide should be amended to
13 include guidance about carbon offsets and certification
14 of carbon offsets. I just wanted your thoughts on what
15 kind of guidance would be most useful for the green
16 guides to provide.

17 Mario, do you want to start out? Oh, okay, go
18 ahead. Jennifer?

19 MS. MARTIN: Sure. We're still working on our
20 written comments, but one of the things we think would be
21 useful is if a company wants to say we buy renewable
22 energy, that the FTC gives some guidance about how much
23 that is if they don't state a percentage. And in our
24 program, we think if a company says we buy renewable
25 energy, the inference is that they're matching 100

1 percent of their electricity use. We don't have a
2 mechanism to enforce that because we don't control all
3 the companies who are making those claims. So, that
4 would be something that would be useful from our
5 perspective.

6 MS. FRANKLE: Thank you. Any other thoughts?

7 MR. CARTER: At least on the carbon side, I
8 think one thing that might be a reach for what the FTC
9 can do at this point, but would be enormously important
10 would be to provide some kind of endorsement, not
11 necessarily in brand name but in principal, of what would
12 constitute a real standard. We'd like to think that the
13 VCS would qualify and that it would be something like
14 real, measurable, and verifiable. But something that
15 would serve the role of a positive list. In essence,
16 duplicating for an area where you have more direct
17 jurisdiction than we could possibly have, some of the
18 same intent.

19 Our fundamental initiative was meant to be
20 international, but the FTC has, in its scope, some
21 ability to put some weight behind that.

22 MS. FRANKLE: Okay. Mario?

23 MR. TEISL: The only thing I would add, it's a
24 while since I have looked at the guidelines, but my
25 impression was that they tend to -- FTC likes to be more

1 suggestive as opposed to regulatory, I think, in terms of
2 stipulating what exactly a firm should or should not be
3 doing. From a lot of firms' perspectives, that may be
4 easier, you know, it provides them a little more
5 flexibility.

6 But I think there's probably a lot of firms out
7 there, particularly smaller ones, that find that
8 uncertainty a little troubling because it leaves them
9 open to going down a road and maybe investing money into
10 new processes and all that and then finding out after the
11 fact that they're getting a letter from somebody saying,
12 no, well, you really shouldn't do it that way. A lot of
13 investment decisions already have a lot of uncertainty in
14 them anyway. If the guidelines were just a little more
15 defined, I guess, I think that might be helpful. There's
16 a trade-off.

17 MS. FRANKLE: This is an interesting question.
18 Must offsets be either valid or invalid or could a scale
19 of validity be created such as AAA, ABB, things like
20 that, similar to credit markets. Any thoughts about
21 that?

22 MS. MARTIN: I'll just jump in from the
23 perspective of our program. We think consumers believe
24 that when they spend money on a product that they're
25 getting 100 percent of what they have been told they're

1 getting and that from a consumer protection perspective
2 that there needs to be as close as you can get to a
3 guarantee that they're getting what they're paying for.

4 This question sort of leads into the issue of
5 whether or not consumers are buying a commodity or if
6 they're making a donation, and there are at least one or
7 maybe more companies who are not selling an offset or a
8 REC as a commodity, which is what we've all been talking
9 about something that's actually been created and then
10 documented and traded, but saying, you know, give your
11 money towards some project and we'll use your money to
12 help build a new project and then you'll get some future
13 share of what's created, and that's a very useful model
14 but it's a very different thing that the consumer is
15 getting.

16 I think that just needs to be clear in
17 everybody's head that there's a difference between what
18 is sort of like a donation program and what we've all
19 been talking about today which is really the purchase of
20 a property right.

21 MR. TEISL: At first when I answered the
22 question, I was looking in terms of consumer research,
23 and certainly there are certification programs that are
24 not 01. I mean, you win the award or you don't. You
25 have a range. Like electricity labeling, right? I mean,

1 energy efficiency ratings where it's a scale. But that's
2 not really what your question was asking.

3 It was almost like it sounded like is it okay
4 for it to be somewhat credible as opposed to really
5 credible. And my guess is that consumers would not
6 differentiate that. If they think it's somewhat credible
7 to them, it's not credible, that would be my guess.

8 MS. FRANKLE: Okay, Ian.

9 MR. CARTER: Yeah, I think you can have a
10 scale, but I don't think it can be a scale that ranks
11 validity. We heard the phrase "charismatic carbon"
12 earlier today, and I think there can be really, really
13 good projects and you can find interesting ways of
14 quantifying that, but at the end of the day you need to
15 know that a ton is a ton or you're not really doing
16 anything fundamentally meaningful.

17 That has to be tempered by a somewhat pragmatic
18 realization that there's no way to get perfect empirical
19 certainty around the counterfactual. You just can't do
20 it. It's logically impossible. But I think as a bedrock
21 principle, you can't give up the idea that a ton really
22 is a ton.

23 MS. FRANKLE: Okay. Before I ask the next
24 question, I've just been asked to make sure you all speak
25 directly into the mics because it's hard to hear.

1 This is for you, Jennifer. How does Green-e
2 evaluate consumer interpretation of the marketing
3 materials that you review and the disclosures that you
4 propose?

5 MS. MARTIN: Well, our initial disclosures were
6 developed early in the program and we looked at what some
7 states were requiring for consumer labeling of
8 electricity products to guide the initial start of our
9 program, and then over time we've added to the
10 disclosures and changed them. Often, we get feedback
11 from customers directly saying what does this mean or
12 marketers, participants in our program will give us
13 feedback. So, we've changed it over time.

14 We haven't been able to do a detailed sort of
15 focus group effort with consumers to see how they respond
16 to those things. We would love to do it, we just haven't
17 had the resources to do it until now. But it's just been
18 changed over time based on feedback we have gotten from
19 participants, both consumers and sellers.

20 MS. FRANKLE: Another question, what do you see
21 as the consumer benefit to have this double certification
22 of project-based and retailer-based projects? For
23 example, if a person buys a gold standard offset, why
24 would that person need the additional CRS certification?

25 MS. MARTIN: Well, if they bought a gold

1 standard offset and they were able to participate in a
2 registry directly, they would not need our certification
3 because they would act as sort of a largescale buyer
4 making their purchase on the wholesale market. The focus
5 of our program is really for those buyers who either
6 aren't informed well enough to be able to go out on the
7 wholesale market and make choices themselves or they're
8 not large enough to participate in that market and it
9 means they have to buy from one of the middlemen, these
10 marketers. And in that case, you do need the additional
11 step that we're providing, which is to make sure that the
12 marketers are actually delivering what's promised to
13 their customers.

14 MS. FRANKLE: Okay. Question for Mario.
15 Mario, what do you say about consumers' reactions to eco
16 labeling and certification?

17 MR. TEISL: Do I get another ten minutes to
18 talk about that? I've worked on a lot of eco, consumer
19 reactions to eco labels and eco marketing on lots of
20 different products, and the reactions are not standard
21 across products, partially because the reactions are
22 going to be contingent on their priors of the
23 environmental problem that you're trying to fix and how
24 that's linked to the product and, also, the priors of how
25 environmental certification is linked to changes in other

1 attributes of the product.

2 For example, in some recent work we did with
3 marketing of greener cars, people did not see the link
4 between or they do not see any differentiation across
5 vehicles in terms of their pollution characteristics.
6 Seventy-five percent of people thought all cars and
7 trucks, SUVs, they all polluted the same amount. That's
8 clearly not true. So, that would affect the reactions to
9 any eco information you're trying to push in terms of
10 marketing.

11 The other thing that we found is that although
12 some people responded favorably to eco information about
13 cars, they also indicated that they thought those cars
14 were probably more expensive, less safe to drive and had
15 lower performance characteristics. So, there's this
16 quandary of some of the producers and dealers not wanting
17 to push that information because all of a sudden they
18 bring in all these other intermeshed priors into the
19 buying process.

20 Given that, that there's all this variation in
21 products and stuff, I think you can say that there's
22 consumers tend to like information disclosures that are
23 standardized across products. I mean, not the standards
24 are the same, but that the way you present the
25 information is standardized. The amount of detail you

1 provide for products is important, both in the short run
2 and the long run. Development of the industry and degree
3 in the industry. Who is giving you the information? If
4 there's any ancillary education or marketing activities.
5 Those are mainly sort of the program characteristics.
6 There's other characteristics of the person themselves
7 that get intermeshed with this stuff. But there's a lot
8 of variation within those variables.

9 MS. FRANKLE: Well, I wish we had more time for
10 questions, but I do thank our panelists very much.

11 **(Applause.)**

12 MS. FRANKLE: We're going to take a 15-minute
13 break and we'll resume at 3:30. Thanks.

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1 **SESSION 5: ROUNDTABLE DISCUSSION ON CONSUMER PROTECTION**
2 **CHALLENGES AND NEED FOR FTC GUIDANCE**

3 MR. NEWSOME: Welcome back, everybody. This is
4 our last session. I want to thank everybody for coming
5 today. It's been very helpful for us to hear from the
6 various panels and I think this panel will be a good one,
7 too. We got some questions about logistics in terms of
8 public comments for the Green Guides review and for this
9 meeting. As most of you know, this meeting is part of
10 the overall review of the Green Guides that we're
11 conducting. We are accepting public comments
12 specifically on these topics, on carbon offsets and RECs.
13 And the public comment period for that will be open after
14 this meeting for about two weeks. I think it closes on
15 January 25th.

16 And concurrent with that, we've also announced
17 review of the Green Guides which address the broad range
18 of green claims and we're also accepting comments on
19 that. That's on a different docket. And the comments
20 for those close, I believe, February 11th, but it's a
21 little bit beyond the comments for this.

22 So, what we're going to do here, we're going
23 have a roundtable discussion. We're going to try to hit
24 some of the issues that have been addressed earlier and
25 maybe some new issues. And what I would like to do is

1 before we start off with the discussion, I would like to
2 go down the table and if everyone could introduce
3 themselves and give a very brief introduction, that would
4 be great. We'll start with Wiley.

5 MR. BARBOUR: Hi, I'm Wiley Barbour, I'm the
6 Director of Environmental Resources Trust. Recently, ERT
7 has joined with Windrock International, so I'll say I'm
8 with ERT Windrock, and I have been working in these
9 issues for the last 15 years. I'm very glad for FTC to
10 invite all of us here. And where have you been lately?

11 MR. BROOKS: My name is Cameron Brooks. I work
12 as the Vice President of Resource Development for
13 Renewable Choice Energy. Renewable Choice Energy is a
14 full-service service provider of RECs and carbon offsets
15 to corporate and consumer clients. And I'm excited to
16 be here as well, mostly because I really see this as a --
17 the fact that this hearing is going on is a real mark of
18 the maturity of the industry that it warrants this kind
19 of scrutiny and attention, and I think it will only lead
20 to stronger products in the future.

21 MS. RANGAN: Hi, my name is Urvashi Rangan.
22 I'm a Senior Scientist and Policy Analyst at Consumers
23 Union. We publish Consumer Reports Magazine. I have
24 been rating environmental labels on food, personal care
25 products, cleaners, other things, and getting into these

1 labels as well on consumer products. I've been doing
2 that the last eight years. So, I'm particularly
3 interested in it from that point of view and hope to
4 bring some perspective on what we expect out of good
5 labeling and what ought to be on consumer products to
6 meet consumer expectations.

7 MS. KOLLMUS: I'm Anja Kollmus. I work for the
8 Stockholm Environment Institute, the U.S. Center of the
9 Stockholm Institute. I'm a scientist there and I focus
10 mostly on carbon markets. I did a study last year
11 evaluating 13 offset retailers and I'm right now working
12 on a study that compares the standards that have come out
13 for the voluntary markets. So, if you are interested --
14 and this is a shameless plug. If you're interested in my
15 study, if you can just give me your card, it should come
16 out in two or three weeks.

17 MR. CARLSON: My name is Eric Carlson. I'm the
18 Executive Director of carbonfund.org. We're a non-profit
19 organization that's probably one of the largest carbon
20 offset retailers and, to some extent, wholesalers in the
21 country. We work with 450 companies and actually over
22 100,000 individuals have participated in our programs to
23 date, in the process of offsetting over two billion
24 pounds of CO2 emissions. We're glad that the industry is
25 growing and that the certifications and the credibility

1 of the industry is growing, and we're welcome to
2 questions. Thank you.

3 MR. CLOUSE: Good afternoon. My name is Matt
4 Clouse. I work at EPA. I'm here because EPA champions a
5 clean energy agenda in our interactions with state,
6 federal agencies and consumers to reduce and remove
7 barriers to improving the market for clean energy and we
8 utilize our brand name and our credibility to introduce
9 ideas such as green power and other clean energy options
10 and try to raise awareness of those.

11 Through the Green Power Partnership, which I am
12 the Director of, we have been working with organizations
13 to increase usage of green power in the U.S. and we
14 launched in July of 2001. At this point, we have over
15 800 partners and those partners, on an annual basis,
16 purchase over 11 billion-kilowatt hours.

17 MR. SCHASEL: Hi, I'm Rob Schasel with PepsiCo.
18 I head the energy and environmental sustainability
19 efforts at PepsiCo. PepsiCo, for those that don't know,
20 includes Frito Lay, Quaker, Tropicana, Gatorade, as well
21 as the Pepsi family of carbonated beverages. We're here
22 because in 2007 as a complement to our other
23 environmental sustainability strategies, which include
24 efficiency improvement in our operations, driving down
25 the amount of energy and water we consume, putting in our

1 own solar facilities and biomass facilities to minimize
2 the amount of energy that we're consuming in our plants,
3 we also made a commitment to purchase renewable energy
4 certificates in an amount equal to 100 percent of the
5 electricity that we purchase and use in the United States
6 at all of our operations.

7 Our Sun Chips brand is the first out of the box
8 in promoting that by putting the Green-e logo on the Sun
9 Chips bag and putting a statement on the back that says
10 we buy green energy credits to match 100 percent of the
11 electricity needed to produce Sun Chips, and we put the
12 Green-e website there as well as our own Sun Chips
13 website where consumers can learn more about what it is
14 we're doing to help the environment.

15 MR. STERN: I'm Adam Stern, Senior Advisor for
16 Business Development and Environmental Policy at
17 Terrapass. We're a San Francisco based company, one of
18 the largest retailers of carbon offsets. We help
19 individuals, primarily consumers, offset the impacts of
20 their driving, flying and home energy use. We support
21 three types of projects: wind power, methane digesters
22 that work at dairies and landfill gas flaring projects.
23 We welcome the involvement of the FTC in this important
24 issue and are delighted to participate.

25 MR. ZONANA: Thank you. My name is David

1 Zonana. I'm from the California Department of Justice,
2 also known as the California Attorney General's Office.
3 Along with my colleagues, we are working on climate
4 change issues in a number of areas. I come from the
5 consumer and energy area of our office. So, our
6 interests are very much aligned with the FTC and consumer
7 protection issues. We also bring with us the expertise
8 and knowledge learned from going through the energy
9 deregulation process in California.

10 MR. NEWSOME: Thank you very much. What I
11 would like to do first, I would like to kind of go
12 straight to the heart of why we're holding this workshop
13 today, or one of the main reasons. This is part of the
14 overall Green Guides review. So, what we're trying to do
15 is trying to figure out whether we need additional
16 guidance for these products and the Green Guides, and if
17 so, what that guidance should be. So, what I would like
18 to do is I would like the panel to discuss what they see
19 FTC could address in this area and, included in that,
20 what are some of the biggest challenges to sellers of
21 these products in terms of making their claims, what are
22 the issues that they're dealing with, are their claims
23 out there that there are questions about, et cetera.

24 But before we get into that, I want to just
25 give an example. I want to encourage everyone to look at

1 the current Green Guides as you're considering these
2 issues and preparing comments. They cover a variety of
3 different green claims and they're set up in kind of an
4 example format. They give examples of claims that are
5 made and there's a commentary on whether those claims are
6 deceptive or not.

7 Just some examples, there's a section on
8 general environmental benefit claims, and we talked about
9 that this morning a little bit. Example 3 in the guide
10 says a pump spray product is labeled environmentally
11 safe. Most of the product's active ingredients consist
12 of volatile organic compounds that may cause smog by
13 contributing to ground level ozone formation. The claim
14 is deceptive because, absent further qualification, it is
15 likely to convey to consumers that the use of the product
16 will not result in air pollution or harm to the
17 environment. There are similar examples here for
18 recyclable claims and things like that.

19 What I would like to ask is whether anyone can
20 offer some examples of claims that would be useful to go
21 into the guide for these markets, and as part of that,
22 some of the issues that the marketers are addressing and
23 that other people are seeing in the market that we should
24 cover.

25 Now, we've also talked about how FTC does not

1 set comprehensive environmental regulations, we don't
2 identify preferred practices. Our focus is on making
3 sure that marketers are not using misleading claims and
4 protecting consumers. So, with that very broad question
5 and also an invitation for some broad discussion of that
6 and also an invitation for some very specific examples if
7 people think that these are the kinds of things that we
8 should address.

9 Does anyone wants to take a crack at that.
10 Urvashi?

11 MS. RANGAN: Okay, thanks a lot, Hampton. I
12 think clarification of terminology out there is really
13 important. Things like carbon-free, carbon neutral,
14 carbon offset, carbon negative, which we have seen on
15 FIJI water, are really confusing to consumers and what
16 exactly that means. It seems to me, and I'm not an
17 expert in this area, but as someone who's evaluating the
18 meaning of these labels and these general claims, that
19 direct offsets are potentially more meaningful than
20 indirect offsets. That's not to say indirect offsets are
21 not valuable. But there needs to be some kind of clarity
22 I think in these terms, so that if you're going to say
23 that you're carbon negative but you're using electricity
24 to generate production for your product and then you're
25 buying offsets upstream, downstream, that offset your

1 use, is that really carbon negative?

2 I don't have survey data for you, but I would
3 think that a lot of consumers would not necessarily see
4 that as carbon negative, but rather a support of
5 alternative energy practices that offset what they have
6 used in fact.

7 So, I think it would be wonderful if FTC could
8 add some clarity and some parameters to those terms so
9 that we couldn't bleed outside some of those lines and
10 that it would become clearer to consumers, okay, that's
11 direct offsetting so that company has done something to
12 offset their own energy uses. Oh, that's indirect. I'll
13 leave it at that.

14 MR. NEWSOME: Okay, thank you. Rob.

15 MR. SCHASEL: I think consistent with the
16 message that's gone on most of the day, the statements
17 need to be capable of being certified and verifiable and
18 incremental, which is one of the reasons why we chose
19 renewable energy certificates that were certified by
20 Green-e because we could verify they were, in fact,
21 additional projects that were generating renewable energy
22 on our behalf.

23 In addition, I think there's got to be some
24 standard -- I'm not sure exactly how you implement this,
25 but there's got to be some standard that the credits or

1 the offsets that are being purchased are, in fact,
2 incremental to indigenous activities that are taking
3 place within the company's own operations. Again, you
4 shouldn't just be able to buy your way to a carbon
5 neutral or carbon negative footprint, you should need to
6 be reducing your own consumption to the minimum point
7 possible, and then offsets are a viable strategy to take
8 that last step to get you to the point where you can
9 actually claim a neutrality.

10 MR. NEWSOME: Okay, thank you. Matt.

11 MR. CLOUSE: Following on Urvashi's comments, I
12 think the term "clarification" is important, but I also
13 think that clarifying scope is also important as well.
14 And as we've seen with the inventory world, you can
15 choose, in some cases, to inventory your owned facilities
16 or your operational facilities which could include leased
17 space.

18 But I think another boundary that's worth
19 considering, too, might be a brand boundary. There are
20 some corporations that have franchises, for instance,
21 that they may not own, but it might be confusing to the
22 public if a statement was made without proper disclosure.
23 Some might perceive the purchase to cover all of the
24 brand's facilities when the corporate entity may not own
25 or operate all those facilities.

1 MR. NEWSOME: Okay, let's go to Adam.

2 MR. STERN: I think as the discussion has shown
3 over the last six or seven hours, carbon offsetting is a
4 new and complex subject. It is difficult to explain to
5 people, and I have tried to do this maybe a thousand
6 times over the last year and a half, the basic notion
7 that you're driving your car or you're getting on an
8 airplane and then you're going to pay some money to a
9 provider who is going to support a project in another
10 place that's going to offset the impact of your activity.
11 That's a communication challenge.

12 I think the response here is that providers and
13 consumers ought to be looking for disclosures on the
14 websites, in the material that's provided to purchasers
15 of carbon offsets, and ways to document that the projects
16 themselves and the offsets have been verified.

17 And just by way of example, and there's
18 certainly others in the industry who are following
19 similar guidelines, at Terrapass, every product that we
20 sell, whether it's for your car or your flight or home
21 energy use, we send the customer a product content label
22 consistent with what was described by Jennifer Martin of
23 the Green-e protocol. This is one step. There's
24 supplementary information on our website. We publish an
25 audit that reviews every single project, where they are,

1 the number of tons that have been offset by that project.
2 I think practices like these, some of my colleague here
3 are probably adopting them, too, if they can become more
4 widespread, go a long way towards strengthening the
5 confidence in this important market.

6 MR. NEWSOME: Great, thanks. Cameron.

7 MR. BROOKS: Well, to answer the question and
8 to echo, I think, some of the comments that have been
9 offered already, I would see one area that the FTC can
10 really build on an opportunity, as far as offering
11 guidance, is in the area of making more precise claims.
12 So, at Renewable Choice, we certainly see that every
13 transaction we enter into is an opportunity to help
14 educate the customer and to help educate them not just
15 simply to transact, but so they understand how and why
16 and they can communicate effectively that their
17 commitment is making some kind of difference and
18 precisely what that difference is.

19 So, I think the comment about scope is very
20 well-taken and that can build on trends that we have seen
21 in the standards that are coming out over the last 18
22 months and in the work that folks have done at WRI or EPA
23 or voluntary carbon standard or ERT or what have you in
24 terms of defining what are the different scopes, how do
25 you draw boundaries, what are the applicable vehicles or

1 instruments that can be used to apply against those
2 different scopes, and then working certainly with our
3 corporate customers to help guide their claims that
4 they're making and with the individual consumer.

5 Like at Terrapass, we're constantly updating
6 the materials that go out and I really like what I heard
7 about on the Sun Chips bag there because it says
8 specifically what is being purchased and what's being
9 offset. It doesn't simply say powered by wind or
10 something along those lines. So, more precision would be
11 very welcome and I think the FTC can help lead the way
12 there.

13 MR. NEWSOME: Thank you. Wiley.

14 MR. BARBOUR: Thanks. I just want to say I
15 think we're at a historic point in time. The U.S. is on
16 the brink, after 15 years of trying to address climate
17 change as a voluntary issue, we're really on the brink of
18 addressing this in a mandatory way. That has to be a key
19 consideration for everyone in this room because it
20 changes the way you think about these tradeable
21 environmental commodities. We're joining a global market
22 for environmental commodities. Those markets succeed
23 when they're based on the ability to measure, report and
24 verify these environmental goods such as renewable energy
25 generation or emission reductions, to be able to track

1 those over time, to have a set of rules that governs how
2 they're created and allocated and traded and ultimately
3 used and retired.

4 The good news is we have a lot of this
5 infrastructure in the United States, so we're not
6 completely unable to respond to this change that's coming
7 very rapidly. But we're still dealing with the legacy of
8 almost two decades of thinking of this as a voluntary
9 issue, as something that can be solved through voluntary
10 actions. I think there's a great deal of good that can
11 be harnessed by the voluntary market and the drive by
12 companies and others to go out and buy these whether or
13 not there's regulatory initiative.

14 But at the same time what we see from all the
15 participants in the last couple of panels is although
16 everyone's being very polite, there are real differences
17 about what counts and maybe we should be a little bit
18 more straight up and point those differences out. The
19 real differences amongst professionals in this field
20 about whether or not a REC really does transfer to the
21 buyer in emission reduction. There are real differences
22 of opinion about whether or not a forestry project, which
23 is going to take 50 years to grow if the carbon should be
24 counted as a reduction today.

25 So, these are things we ought to heighten and

1 sharpen and these are policy calls. So, we have an
2 underlying basis for measurement and verification, and
3 probably most of the people in this room could come to an
4 agreement over what is an emission because we understand
5 the fundamental processes that create emissions. But, as
6 I think Jim Sullivan pointed out in an earlier panel,
7 where you hit the rub is where you decide what is a
8 reduction, and that requires a policy call about a
9 baseline and that's where you're not going to get, we
10 haven't so far, agreement in the community. This is
11 where I think FTC could be really valuable especially in
12 this transition period in the next couple of years where
13 we don't have a mandatory system and, yet, there's an
14 enormous activity.

15 I'll just say in looking at your environmental
16 marketing guides under qualifications and disclosures,
17 there's a statement that says that in order to be
18 effective, a qualification or disclosure such as those
19 described in these guides should be sufficiently clear,
20 prominent and understandable to prevent deception.

21 In my experience, if you're thinking of a
22 qualifier that can explain to a general member of the
23 public what exactly we mean when we say there's an
24 indirect reduction being transferred, I'm not convinced
25 that we really are able to do that in a sufficiently

1 clear, prominent and understandable way. I think this is
2 an issue that -- there's no real consensus amongst the
3 folks that you have assembled here in these panels. The
4 public needs something simple. And really this is about
5 price. I think that any environmental commodity that is
6 being put forward as something that conveys a reduction,
7 we could find an emission reduction that would be
8 unimpeachable such as a Kyoto protocol allowance or
9 credit, but they cost too much. So, we're looking for a
10 cheap alternative. That's really what this is about, so
11 we need to really sharpen the discussion I think.

12 MR. NEWSOME: Great, thanks. A couple of
13 issues you raised, hopefully, we can get back to. Let's
14 go to David at the end.

15 MR. ZONANA: Thank you. Something the last
16 speaker said triggered a thought in my head. The
17 general comment is this: The FTC guidelines are
18 non-binding, they're not regulations. They're there to
19 help provide industry with some guidance and help educate
20 consumers. The law is already on the books. The FTC Act
21 is there, the various state laws are there, and those
22 laws require that those marketing the product don't
23 deceive the consumer, that they make clear statements of
24 what they're selling, and that, in general, along with
25 the principles that the guides set out that they be able

1 to substantiate their claims.

2 So, the farther you go in making a claim, the
3 more you have to think about how you're going to
4 substantiate that claim. The more careful you are with
5 your marketing claim, the easier it may be to
6 substantiate it.

7 So, even without guidance, there are laws out
8 there, there are standards. And I think it would still
9 be very beneficial to have the FTC weigh in on these
10 issues, where it can, where it finds that there is
11 sufficient consensus or clarity or a need to, by example,
12 define out some bad practices.

13 MR. NEWSOME: Thank you. Just to clarify,
14 David's right in that the guides are not technically
15 regulations, they're not rules. But they are
16 interpretations of -- they basically show how FTC would
17 interpret the FTC Act. So, if a company is doing
18 something that's inconsistent with the guides and the FTC
19 were taking enforcement action, we would cite to the FTC
20 Act instead of the Green Guides. But, nevertheless, the
21 Green Guides represent interpretations of the FTC Act.

22 So, let's go to Rob.

23 MR. SCHASEL: Thanks. I just wanted to pick up
24 on one of the things that Wiley said and reinforce and
25 maybe amplify it a little bit because I think he pointed

1 out a stumbling block that we're probably going to
2 continue to stumble over for the next couple of years,
3 which is there are some things that voluntary markets can
4 do well and voluntary markets can prove incremental
5 positives very well because there's something there to go
6 and put your fingers on and touch and feel.

7 Voluntary markets cannot prove negatives very
8 well. So, in the absence of some type of mandatory cap
9 and trade legislation, I think carbon offsets are going
10 to be something that we continue to struggle with because
11 it's very difficult to prove a negative. In the absence
12 of a mandatory cap and trade type legislation, carbon
13 offsets are the equivalent not just of the old analogy of
14 squeezing a balloon where you squeeze it over here and it
15 reappears over here, but really it's squeezing a balloon
16 while you continue to blow it up because we continue to
17 add additional carbon emissions year over year over year
18 in the United States. So, you claim a carbon offset, but
19 meanwhile the total emissions continue to grow

20 So, in the absence of having a verifiable cap
21 that we're not going to exceed, carbon offsets are going
22 to continue to be a very difficult thing that I think
23 consumers will struggle with because, in a sense, it is a
24 vapor product until we have got a cap that doesn't get
25 exceeded and an offset really does mean a ton of carbon

1 that doesn't get emitted. So, before that happens, we
2 look at voluntary markets as being much better in terms
3 of proving a positive, like a renewable energy kilowatt
4 hour generated which you can actually go and verify did
5 happen.

6 MR. NEWSOME: Okay, thank you. Matt.

7 MR. CLOUSE: Going from the general to the
8 specific, I'm providing some examples. One of the issues
9 we have seen is with more companies interested in putting
10 on-site renewable systems at their facility, there is
11 some confusion when the RECs are sold about what claims
12 can be made. And I would suggest that FTC could play an
13 important role on clarifying those claims, once the RECs
14 have been sold and what claims you have when RECs are
15 held.

16 MR. NEWSOME: Okay, thanks. Eric.

17 MR. CARLSON: I'd just like to chime in that,
18 from the discussions earlier, I think we need to put out
19 a little bit about some of the consensus that has emerged
20 and actually been around, I think, almost since the
21 inception of the market. That is that certification is
22 really the hallmark of quality in the REC and the offset
23 industries. It answers the fundamental question, is this
24 real and who says so?

25 And what you saw, I think, from the previous

1 presentations was all the different criteria that go into
2 these certifications are a little bit different, but very
3 much the same, baseline, measurable, real, verifiable,
4 you name it, it goes on and on. I think reasonable
5 people, as Wiley pointed out, can disagree a little bit
6 here and there on some of the technical details. I
7 suspect the FTC wouldn't engage in that. But that's a
8 good line for the industry to continue to become involved
9 in or to debate.

10 Certification really answers that for the
11 consumer. If it's Green-e, this is what it means. It's
12 very transparent. They've got hundreds of stakeholders.
13 If it's Environmental Resources Trust, the same thing.
14 Voluntary carbon standard, and so on and so forth. We
15 don't have a lack of standards in the industry. We have
16 a huge number of standards, and I think the background of
17 these more or less are the same, although let's say
18 Green-e only does renewable energy in the U.S. So, if
19 you want renewable energy in India, you've got to go
20 somewhere else, and so on and so forth.

21 So, I actually see a lot of positive things in
22 the industry, a lot of things we can agree on. But I
23 think we do need to say is it certified, because that
24 really gets you to a whole other level of quality, or is
25 it not? We need the dialogue, we need people to say, to

1 really reject or dismiss offsets that aren't or at least
2 require a certain amount of justification behind those.

3 MR. NEWSOME: Okay, thanks. If we could just
4 do a short diversion. Andy, I'll get to you in a second.
5 I would like to go into what people's thoughts are on tip
6 for consumers, the kinds of things that FTC could
7 provide, information to consumers about what to look for
8 when they're purchasing these products.

9 Before we do that, Wiley mentioned the issue of
10 RECs as offsets. It's been discussed today. I know that
11 there are different opinions on the panel and there has
12 been a lot of discussion. I was wondering if I could ask
13 a few of you just to give a very brief overview of your
14 position on that, and I'll pick on Wiley first since we
15 talked about it on the phone and I know that you have
16 some opinions on it. And if Adam or Eric, if you want to
17 briefly discuss where you all stand on that issue. Then
18 I would like to move on with Anja's comment and then go
19 to consumer tips.

20 So, I don't want to spend an extra hour on RECs
21 as offsets, but I would like to get this on the table at
22 least. So, Wiley, we'll go with you.

23 MR. BARBOUR: For complete comments, ERT
24 provided joint comments on this issue to CRS when they
25 asked for comments on their GHG renewable energy

1 protocol. So, there are comments from ERT and the
2 Greenhouse Gas Expert Network and Pew Center on Climate
3 and the California Climate Action Registry that are
4 jointly our views on this. I think the short answer is
5 no, a REC is not an offset.

6 When I think about this, think about it from
7 the perspective of consumer protection, I think about the
8 story about the country bumpkin who takes a bus to New
9 York City and he gets off onto the sidewalk, and pretty
10 soon, he meets a gentleman who makes him a great deal, he
11 sells him the Brooklyn Bridge. Everything is great until
12 someone points out that, actually, you didn't really buy
13 the Brooklyn Bridge because the seller didn't own it.

14 So, it's a fundamental issue for me when you
15 think about these environmental markets and when you're
16 buying something is, you know, is ownership clear? Is it
17 contested? Are there more than one claimant to that
18 product or that benefit? If so, that's a problem. ERT
19 operates a Greenhouse Gas Registry, and as a registry
20 operator, the first question we have to ascertain is does
21 this person who is seeking to register a project or
22 offset with us really own it?

23 And, really, this is a fundamental issue with
24 RECs. And the whole idea that you own an indirect
25 reduction, I think, is a little bit deceptive because it

1 sounds like you really own something, but what you're
2 saying is you own a reduction on someone else's property.
3 Maybe you can get it, maybe you can't. But to say that
4 you can sell that, I think, is fundamentally quite
5 questionable. And this has been ERT's position for over
6 a decade and we are a certifier of RECs and we certainly
7 support renewable energy, but you have to be careful
8 about what it is that you're conveying.

9 I think that we've adopted the language from
10 the GHG protocol to say you're transferring this indirect
11 production, but it is tricky and I think the EPA position
12 that the Climate Leaders distributed, I think is getting
13 us in the right direction. But it's clearly saying it's
14 not the same as a verified emission reduction where
15 you've got a whole set of activities that go into the
16 creation of that environmental product and real third
17 party attestation and clear delineation, and there's
18 usually a big report on that. You just don't go through
19 that process with a REC.

20 MR. NEWSOME: Well, there are certainly
21 different opinions on that as we've seen today. Why
22 don't we go to Anja.

23 MS. KOLLMUS: Thank you. A couple of things, I
24 wanted to comment on Eric's comment on certification.
25 Certification can only be as good as the standard is that

1 it certifies by, and that's actually something where I
2 feel there can also be some consumer confusion and
3 possibly deception. Because if you certify a weak
4 standard that doesn't have a very stringent definition of
5 additionality, you can put a very big label saying this
6 was certified, but it's really kind of a meaningless
7 certification.

8 I have talked to certifiers and they're very
9 really aware of that. They say we only go in there to see
10 if the emissions reductions have actually occurred. We
11 don't question the additionality assumptions. So,
12 there's a little bit of a qualifier, yes, certification
13 is very important, but the underlying standard is even
14 more important.

15 And to tie that in with your question about
16 RECs, I think RECs are a very different commodity from
17 offsets. They have been designed for a very different
18 market and there are two issues why, in my opinion, they
19 cannot be easily used as carbon offsets. One is
20 ownership issues and the other one is additionality. And
21 we've heard some people say today that the additionality,
22 people are getting tired of the additionality discussion.
23 I actually disagree with that. It's a very complex issue
24 and it needs to be discussed, and we need to have a
25 continuous conversation about it.

1 There is no silver bullet, there might be a
2 silver bucket though. So, in terms of RECs, for me --
3 Jim from EPA said, if market penetration is so small, you
4 know, if it's less than 2 percent, why bother with this
5 whole additionality question? But if it turns out even
6 the market penetration is so small, if the renewable
7 facilities I'm building, I'm able to build it because I'm
8 getting a huge tax credit, so for renewable energy, just
9 to give an example, you probably earn around \$90 per
10 megawatt and about 50 or so or 40 or so of that comes
11 from a tax credit. If only an additional \$2 for a
12 megawatt comes from a REC, how could I possibly claim
13 that those \$2 are the ones that enable me to build that
14 facility?

15 MR. NEWSOME: Okay. Adam.

16 MR. STERN: This is a debate that's been going
17 on four or five years. And I don't want to necessarily
18 represent the renewable energy industry, but I'm sure
19 there are people in this room who would be happy to
20 present in written comments the support there is in the
21 world for applying RECs as an offset. They're a very
22 reputable organizations including some who appeared on
23 the panel earlier, like the World Resources Institute,
24 The Union of Concerned Scientists, Natural Resources
25 Defense Council, that have all indicated a support for

1 using RECs as an offset value.

2 I can tell you from Terrapass's experience that
3 we buy Green-e RECs. Those are ones that are not in
4 states that have renewable portfolio standards, so
5 they're not just meeting a regulatory cap at some level.
6 We don't buy in RGGI states either where there is an
7 emerging cap taking shape there. We register our
8 transactions so there's a record of them, and we retire
9 the credits so that they can't be traded again. I think
10 these kinds of procedures that our business follows, and
11 some of my colleagues here on the panel do as well, are
12 the kinds of things that can reassure customers that they
13 know what they're getting and this it's a legitimate way
14 to offset a portion of your activities whether they be
15 driving, flying or using electricity.

16 MR. NEWSOME: Thank you. Eric.

17 MR. CARLSON: I'm happy to weigh in here.
18 First, let me say that I think that we need to keep in
19 mind here exactly what it is we're trying to do, and I
20 hate to sound a bit pithy, but the goal here is to
21 actually reduce carbon dioxide emissions. If there is
22 anybody here whose goal that is not, you're probably at
23 the wrong forum.

24 To that end, the planet doesn't care how you
25 reduce your emissions, whether it's through Central

1 Europe imploding in the 1990s through renewable energy,
2 energy efficiency or some other form. It doesn't care
3 where, whether in Boston, Brazil or Bombay, and it really
4 doesn't care why. The fight here is against climate
5 change in reducing carbon dioxide emissions as quickly as
6 possible.

7 I think that the certification bodies that are
8 out there have taken into account additionality in as
9 objective a way as you can without trying to tie up the
10 industry in knots and trying to figure out what is
11 exactly is, say, financial additionality. It is a 1
12 percent return on investment, 5 percent, 10 percent, 3
13 percent above coal, 15, 20, or something like that?

14 But I would go back to saying that I think we
15 can all agree that at least with a certification, and I'm
16 going to disagree with Anja here, you know what those
17 criteria are and you know that there's a body of support
18 behind that. Rather than saying taking the words from,
19 say, a marketer that self-verifies, self-certifies and
20 whatever and maybe just puts a lot of language up on
21 their website, that's not the same as saying that Green-e
22 says this and all of these bodies back Green-e. I think
23 we need to take that into account.

24 My own feeling is that RECs are offsets.
25 Again, going back to the planetary guidance here. If a

1 wind REC does not reduce emissions or offset emissions,
2 my question then is what does it do? If I use
3 10,000-kilowatt hours of electricity, and I can either go
4 to my utility or I can go to the market and get say wind
5 energy or something like that, I'm buying a very real,
6 certifiable commodity and the environmental claims to say
7 such. According to who? Well, according to the EPA and
8 according to the EGRID.

9 The basic formula for how a REC becomes an
10 offset is simple. One REC equals one megawatt hour of
11 environmental attributes and one megawatt hour is
12 determined using EGRID. Now, there are absolutely
13 technical details of where these things take place, the
14 regulatory issues coming into effect and all that. But
15 at its core, if buying a wind REC or some other REC
16 that's certified and is not double counted and all that
17 doesn't reduce pollution, then it's not really clean.
18 We're saying buy clean power, but if it's not clean than
19 what is it? It's absolutely offsetting what is being
20 used in the grid.

21 MR. NEWSOME: Okay, thanks. Cameron next, I
22 see a lot of cards up and I don't want to do an hour on
23 RECs. So, if we have comments on RECs, let's try to keep
24 them as brief as possible, but I want to make sure
25 everybody gets a chance to speak. So, Cameron.

1 MR. BROOKS: Just a couple of quick thoughts.
2 I couldn't agree more with you that the standard is
3 critical. And conversations about quality, I think, take
4 place at the level of the standard and that's key.

5 On the question of RECs as offsets, I do think
6 that that comes down or comes back to a question of scope
7 and whether you're talking about Scope 1, 2 or 3
8 emissions and there are differences there. As Wiley
9 pointed out, there are real questions about property
10 rights which, right now, I think the property rights are
11 captured either through a contract path that retailers
12 have to sellers or through some kind of regulation, but
13 that is clearly an area that the FTC could help the
14 industry quite a bit as far as offering guidance.
15 Ultimately, I suppose a lot of that stuff will be tested
16 in case law that I'm not going to comment on.

17 I also won't comment on the question of whether
18 or not consumers are growing tired of talking about
19 additionality. I think what is very clear is that
20 customers are not growing tired about talking about
21 change. So, these are the same customers that are, in
22 many states, voting to enact new policies that, as Wiley
23 wants to see and I think all of us here want to see,
24 tough, aggressive mandatory policies that require change
25 as far as auto emissions, energy use, a whole panoply of

1 things that relate to carbon emissions.

2 One anecdote that I would offer that would
3 point out perhaps some of the complexity of how you judge
4 a \$2 or \$5 or a \$10 REC within a financing picture that
5 looks at a 90-megawatt hour project development --
6 recently, one of the leaders in the industry spoke at the
7 Green Power Marketing Conference, so he's helped to
8 develop one of the major project development companies
9 and a leader in the green energy space. He made the
10 observation that not one project moving forward today is
11 doing so without incorporating the value of RECs into the
12 core financing of their project. That is a sea change
13 from a couple of years ago.

14 Lori Bird and others at NREL have published a
15 report that shows that going forward there is expected to
16 be a significant shortage between supply and demand,
17 which clearly demonstrates that the aggregated demand
18 that consumers and corporate buyers have and are -- you
19 know, we like to think that we and others that are
20 forming industry associations around renewable marketing
21 are playing a role in aggregating that demand and driving
22 it and shaping it in ways that it can be integrated into
23 that financing. But it's clearly playing a role that is
24 adding a new financing stream to project development, and
25 I think that that's core change and I think it's

1 important to recognize, and I think that that's an area
2 that is to be applauded and to be promoted at all
3 opportunities.

4 MR. NEWSOME: Let's go to Urvashi. Thanks,
5 Cameron.

6 MS. RANGAN: As someone who has looked at over
7 150 labels on products, I can tell you that we look at
8 how meaningful those standards are as the first criteria.
9 So, I just want to echo what Anja had to say about that.

10 We have seen plenty of certification programs,
11 whether it's the whole standard or part of the standard,
12 that has very weak criteria in terms of what they're
13 doing to enforce the standard. One example we have is a
14 certifier who says they have chemical management going on
15 and forest management. The way they actually put that
16 into practical use is leave that up to the forester to
17 decide how they're going to manage their chemical use.
18 That's not a standard, that's not meeting chemical
19 management.

20 So, sometimes you have to look beyond the
21 rhetoric of what's actually being said and you have to
22 look at how the standard is indeed being verified to
23 really get underneath whether a standard is particularly
24 meaningful.

25 That said, the next criteria we look at is

1 verification, and that is an important step. But I don't
2 think we're here today to mandate certification programs,
3 at least that wasn't my understanding. And there may
4 very well be certification programs that exist and those
5 will be rated and judged by consumers as to how
6 meaningful they are, and then there will be voluntary
7 claims and what can we do in the marketplace to prevent
8 deception with regard to those voluntary claims. And I
9 think that's sort of where we are in the discussion.

10 I also want to echo a few other things and I'm
11 going to incorporate tips for consumers. Additionality,
12 it's a really wonky term we're using here, but for
13 consumers it means what is the value over the baseline,
14 what is the value over a conventional? That's how
15 consumers make judgments about whether they're willing to
16 spend extra money for something. So, if you're doing
17 something that's 10 percent over baseline versus 80
18 percent over baseline, that's a meaningful difference to
19 a consumer. It may mean a difference in one consumer
20 supporting that product, buying that product, buying that
21 service, and one not.

22 And I don't think this is a one size fits all
23 kind of issue or value. I think consumers are going to
24 make their value judgments based on their own
25 interpretations of whether you're meeting their

1 expectations or not among that realm. But what we
2 clearly need is full disclosure and transparency in order
3 for consumers to be able to adequately make those
4 judgment calls.

5 So, for example, if you're doing offsetting,
6 quantifying that offsetting in some way for consumers, I
7 think would be an incredibly important element to add to
8 your labeling schemes so that consumers could make a
9 judgment among products as to whether or not there is a
10 difference in the value that you're adding.

11 MR. NEWSOME: Great, thank you, Urvashi.
12 That's a good segue. So, let's talk about consumers and,
13 Anja, you're next. So, let me just frame the question
14 and then we'll go into it. I want you to answer it, too,
15 because you have done that report that you did last year
16 focusing on the consumer end.

17 The question is a basic one. Your neighbor
18 comes up to you over the fence and says, I want to buy
19 these offsets online or I want to buy RECs, and they
20 really want to dig into it and they want to learn about
21 it. What are the four or five things you tell them to
22 look out for and to ask and the kinds of information that
23 they should seek when they're looking at these products?

24 So, Anja, let's start with you.

25 MS. KOLLMUS: Well, the first thing I would

1 tell them is that first they should reduce their own
2 emissions. It's important to keep in mind that we have
3 to reduce emissions by 80 percent if we want to minimize
4 the possibility of having a larger than two-degree
5 centigrade warming. That doesn't mean we're not going to
6 see some major changes already.

7 So, the stakes are very high and the reductions
8 we are required to make are very, very large, and offsets
9 have to be put in perspective with that ultimate goal we
10 have. That's true for national and international policy,
11 as well as personal action. So, that's the first thing I
12 would say, you have to reduce your own carbon footprint
13 first.

14 And then I would say additionality is certainly
15 an important thing to question, are the offsets you are
16 purchasing really additional. And, of course, no one
17 argues with Eric that windmills are producing fewer
18 emissions than a coal plant. The key question is, are
19 you the one who is causing the change? So, if your
20 contribution is not causing any change, you cannot really
21 claim that you're helping to reduce those emissions.

22 The little example I often use is if say
23 Urvashi comes to me and says, I would like to buy a
24 Prius, but I really can't afford it. And I'll say to
25 her, you know, I'll give you \$3,000 so you can buy it,

1 but I want to claim the carbon benefits you get from
2 having a more efficient car. That I would consider an
3 additional project because she wouldn't be able to buy
4 her Prius if I didn't help her. If she came to me and
5 said, I bought just a Prius, and I said to her, can I
6 give you \$3,000 so that I can claim credit for the carbon
7 offsets, it's exactly the same. But in a second example,
8 it's not additional because she already bought the Prius.

9 So, I think the FTC could -- it would be
10 helpful for consumers to have a little bit of a
11 guideline, a little bit of an explanation, why is this
12 such a complex issue and what really is it about? So,
13 additionality would be one.

14 The second one would be what kind of project do
15 you want? Do you want to have a project that has
16 additional benefits, that has additional social or
17 environmental benefits? Do you want a project that is
18 implemented in the U.S. or do you want a project that is
19 implemented in the developing countries? And then what
20 type of project. And I think there is, in each category,
21 renewable energy, energy efficiency, forestry, there's
22 valid and good projects and it's kind of up to the
23 consumer to choose what he feels most comfortable in
24 supporting.

25 MR. NEWSOME: Thank you. We'll go to Wiley

1 next, but added to that, I'm just curious whether we're
2 seeing or we expect to see competition or advertising
3 based on different types of offset activities and whether
4 there's an indication that consumers prefer offsets from
5 one type of activity because maybe it's less complicated
6 or they're more comfortable with it. Just an extra
7 question there. I would like us to continue to talk
8 about the over the backyard fence discussion with your
9 neighbor. Wiley.

10 MR. BARBOUR: I'll take your question on
11 because I think it's tied in. In any conference, you'll
12 hear a variety of people say, additionality is the most
13 important characteristic of a project. I don't
14 particularly believe that myself, but you'll hear that
15 over and over again. So, your question is when people
16 come -- and I often get calls from people saying I'm
17 looking for an offset project, you know, how many times
18 is it I'm looking for the most additional project. And
19 the answer is not very often. Additionality is a great
20 idea in theory, it's really hard to implement in
21 practice. It's an idea that says we can pick the winners
22 in this marketplace, we can figure out objectively what's
23 the best place to direct capital to where it will achieve
24 the greatest environmental good. And it's a great idea,
25 but it just is really hard to put into place.

1 When I get calls for offsets, it's often I need
2 offsets in the Southwest, I need offsets from the
3 transportation sector, I need a land-based offset in
4 China, I need offsets from a Muslim country. So, when
5 you ask what does the public want, the answer is a whole
6 huge variety of different types of characteristics. And
7 when I think about what we can reasonably expect members
8 of the public to understand in terms of these
9 disclosures, I'm not at all convinced, after having heard
10 all these comments, that we can really expect the public
11 to dissect and understand all these arguments and,
12 therefore, it's okay to have multiple different types of
13 standards that would quantify things very differently.

14 I think there is a real problem with standards
15 and with these concepts and, ultimately, we will need
16 some clear policy guidance, and I think it's a real
17 challenge to try to think about where those signals could
18 come from the quickest and with the most authority.

19 And, again, we should keep our eye on the
20 prize. We are going through an enormous change in this
21 country, so what we ought to be thinking about is what
22 voluntary market do we want to see when we have a
23 mandatory cap on greenhouse gases in place. And in
24 thinking about that, we ought to think about how should
25 we be designing this market right now so that that

1 transition is smooth? And if we build up a set of
2 expectations from the public on what might be contained
3 in a product and then once the cap comes in, it's no
4 longer contained in that product, what have we just done?
5 I don't think we've done the right type of service.

6 So, I think we ought to be really -- and this
7 is part of the transition that needs to happen -- we need
8 to really rethink all these issues in terms of where we
9 are right now and we are on the brink of a completely
10 different approach to our emissions. And as Anja pointed
11 out, we need to reduce not just 5 or 10 percent, but
12 ultimately 80 percent.

13 So, the whole idea of additionality, again,
14 it's challenged once you're in a compliance regime, once
15 you're dealing with a defined environmental product with
16 clear ownership of that right to pollute and someone
17 wants to buy that, like buying an SO2 allowance and
18 retiring that, to me, that is a very efficient and
19 reasonable way to reduce pollution that's available to
20 all members of the public.

21 My organization owns 16,000 SO2 allowances and
22 we'll sell them to any one of you who wants to retire
23 that allowance, but the point is it costs real money,
24 more than most of these products are priced at, and it's
25 really not something that passes an additionality test.

1 It is simply the ability by the development of an
2 environmental market to transfer title to the right to
3 pollute and you, as an individual, has the right to then
4 throw it in the garbage so it will never happen. I think
5 that's a highly credible environmental product, but I
6 don't know if it fits the definition of additional or
7 not.

8 MR. NEWSOME: Thanks. Matt, let's go to you.

9 MR. CLOUSE: I have a number of follow-up
10 comments and Wiley prompted one. I would like us to not
11 think that the potential future carbon market will
12 eclipse voluntary markets as we see them now. I don't
13 think we need to have these voluntary markets be entirely
14 paving the path to the future. I think that in the
15 future, if we do have regulation, there will be sectors
16 that aren't capped, there will be sectors that aren't
17 fully covered. I think there will be businesses that
18 want to go beyond what they have to do. We have to think
19 of them as separate markets and that do separate
20 activities. They both, especially the voluntary market,
21 need to be credible, otherwise it doesn't move forward.

22 If I could go back to the hybrid purchase
23 example on additionality. I'm growing frustrated with
24 the financial additionality test. I think it's very
25 simple to understand by many people, and that's part of

1 the problem. Because when you start looking at the
2 details of how you prove additionality through financial
3 means, it's quite complex. If you look at a wind farm,
4 how is that wind farm financed, is it financed through
5 debt, is it financed through equity? There's a number of
6 ways that gets quite complicated to get at financial
7 additionality. The idea of RECs are that you're paying a
8 small portion, but it's a small portion that make as
9 significant difference. How much of a difference? How
10 do you prove that made a difference?

11 I think moving towards a performance-based
12 standard makes a lot more sense and that you're looking
13 at what happens overall in that sector and setting a
14 standard for what is really above and beyond what's
15 happening in that marketplace at a business level.

16 And then the last thing on ownership, I think
17 EPA has tried to take a prudent position at this time in
18 the absence of a policy call over who can make ownership
19 claims, and that current prudent path is to have separate
20 accounting as you see in Climate Leaders, as you see in
21 the WRI guidance for indirect and direct. It gives
22 credit to those who can control their purchases, like
23 Pepsi when they can go out and choose not to buy
24 conventional power but buy RECs, and they can account for
25 that and encourage them to take action now.

1 There's also incentives for those who are
2 generators to register their own direct emissions there,
3 too.

4 So, some folks in the room are taking kind of
5 an advocate position towards ownership that seems
6 somewhat reasonable, given that we haven't seen claims
7 from fossil generators saying you stole my claim. We
8 haven't seen those. This market has been in existence
9 ten years, there hasn't been that battle to date. But as
10 EPA, as we are advising the companies we work with, like
11 Pepsi sitting next to us, like many other very large
12 companies, we advocate a very prudent approach until that
13 policy call is made. And those are my comments.

14 MR. NEWSOME: Thanks, Matt. All right, Rob.

15 MR. SCHASEL: Yeah, I want to get back to the
16 question of what would I say to the neighbor when asked
17 about buying products with environmental claims. I'll
18 walk out on a limb here and say that I think the average
19 residential consumer is far more likely to be struggling
20 with the question of which consumer product do I buy
21 based upon the environmental claim associated with it
22 than they are ever to be faced with the which REC or
23 which carbon offset do I buy. So, I'm going to direct my
24 kind of answers towards which consumer products based
25 upon environmental claims.

1 And if my neighbor asked me that question over
2 the fence, after I got through the obligatory obvious
3 answer, which is obviously PepsiCo products, I think I
4 would try to give the answer that Anja gave which is make
5 sure that the company from which you're buying is, first,
6 off doing everything they can to minimize their own
7 emissions and their own consumption in their indigenous
8 operations, because I think she brought up a very salient
9 point which is if we're really serious about this and
10 we're going to make a difference, we really do need to
11 get to 80 percent emission reductions from what we're
12 emitting today in order to stave off some severe
13 consequences.

14 So, I think each consumer -- and what the FTC
15 can recommend is if it's important to you as a consumer,
16 you really need to take the effort to educate yourself
17 and you need to demand that your consumer products
18 companies take a part in educating you as well so that
19 they can tell you what it is that they're doing within
20 their own operations to minimize their energy consumption
21 and then what it is that they're doing outside of their
22 own operations to make an external impact, and only as a
23 final resort what role do offsets or RECs play in their
24 performance.

25 MR. NEWSOME: Thank you. Okay, next we have

1 Eric, Cameron, then Adam. And when you all answer, if
2 you could provide a brief explanation or just description
3 of the kinds of things, the kinds of information you
4 provide to consumers when you go to your website, the
5 things that you all have identified as important
6 information for them to have when they're looking to
7 choose these products.

8 So, let's start with Eric.

9 MR. CARLSON: I want to agree with what Matt
10 said and what Maurice from the EPA said before. If I can
11 take 30 or 40 seconds first, with additionality we need
12 to keep in mind that, I think Maurice pointed out eight,
13 if I'm not incorrect, additionality criteria, beyond
14 business as usual, baseline, not capped, no double
15 counting and several others. So, all of these
16 certifications have those built into it.

17 What we're really struggling here with, and I
18 think Matt pointed out, is what about the criteria that
19 are strictly subjective that anybody could simply come
20 out and say, I do this and that's the right thing to do.
21 I think everybody agrees in moving forward to promote
22 more carbon climate friendly projects that there has to
23 be a marketplace that we all understand and accept. That
24 means using objective criteria and not leaving it up to
25 the whims of certain folks to say, well, I think this is

1 wonderful and I say so.

2 In terms of the information we provide to
3 consumers, when folks come and support us, we have a
4 number of projects listed on our website. We have
5 information about those. We have the project selection
6 criteria that we use. We have the verification report
7 like Terrapass does. Our financial audit is available.
8 One of the things that makes carbonfund.org a little on
9 the unique side is we let consumers choose which types of
10 projects they support, whether it's renewable energy,
11 energy efficiency or reforestation. So, once you're in
12 there we're telling the consumer, based on that choice,
13 we're going to do this. So that means our reforestation
14 projects meet the Climate Community and Biodiversity
15 Alliance standards, our renewable energy is ERT certified
16 under Wiley's protocols, so on, so forth.

17 So, I think providing that information is very
18 important. Certainly, for very large customers who
19 really want to select specific projects, we send them the
20 project design document and that sort of information.

21 MR. NEWSOME: Okay, great, thanks. Cameron.

22 MR. BROOKS: I'll try to answer a couple of
23 questions. As far as what I would say over the fence to
24 my neighbor, I really do think it comes down to
25 credibility and it comes down to a matter of standards

1 and to follow, perhaps, from the Google model of
2 searching, a lot of that credibility I think comes from
3 who is linking in to those standards, who is supporting
4 those standards, what does Environmental Defense say,
5 what does WRI say, what does the EPA say? How is the
6 general community responding to that? And I think that
7 in our current market that's the best measure of
8 credibility that's out there. And I think, also, I would
9 say to them it comes down to a matter of community.

10 To answer your second question about what do we
11 see? With this disclaimer, I work on the supply side of
12 the business so I tend to get to opt out of a lot of
13 those conversations about exactly what we're saying. But
14 I know, for example, on our website whether this has
15 launched or will soon be launched, you heard my
16 disclaimer before so I can't quite say, but a lot of our
17 website presence is based around community and many of
18 our customers come to us from our commercial clients,
19 whether it's Whole Foods or Vail or Gander Mountain or
20 something like that, and they can choose to be affiliated
21 with that community and they can choose to be affiliated
22 with other communities much in the sort of peer-to-peer
23 networking way on the Internet.

24 I think that that's important because when you
25 get down to the question of where the impact happens,

1 especially at the consumer level, I think it's fair to
2 say that the impact does not happen at the margin. It
3 pains me to be in front of, what is it, three projector
4 screens because I have a very cute picture of my kids
5 buying a wind power card, which is a product that we have
6 at Whole Foods Market and I always like to throw up
7 pictures of my kids in front of captive audiences. So,
8 it's painful. But that \$5 card, in and of itself, is not
9 going to lead to a new \$2 million wind turbine being put
10 in the ground any more than when I go to Whole Foods and
11 I buy one tomato which maybe costs more than my wind
12 power card, I don't expect that there's a farmer at the
13 other end who plants another tomato because of that
14 purchase.

15 But there is a power in community and there is
16 a power in being able to aggregate that demand and shape
17 that demand. So, I think a key question is will this
18 move it forward.

19 And just to touch back, and I will wrap up, I
20 promise, on the question of additionality, I think this
21 is a very key concept because it's very easy to paint the
22 picture of this wind farm was going to happen or here we
23 came along and it happened because of us or in the Prius
24 example. But I think in the project development world,
25 most project development and most financial investment,

1 in a larger context, happens with either a small or, in
2 most cases, a large degree of risk.

3 Of the 2400-megawatts of wind that were put
4 into the ground last year, Lawrence Berkeley Labs did a
5 study and they showed only 20 percent employed at the
6 project level. So, most of that wind is going in with an
7 element of risk.

8 I know that one of the partners we work with in
9 the wind space, they're in the corn belt, they're a very
10 heavy fossil fuel industry player. They looked at a
11 project where they did not lock up the value of the RECs,
12 they did not enter into a forward agreement to sell the
13 RECs, but because of their experience with another wind
14 farm selling RECs, they felt comfortable about the value
15 of what they would be able to get if they moved forward.
16 So, they could feel comfortable that they're financing
17 projections had an element of risk but were within a
18 comfortable range that they could approve that project
19 and it got put in the ground.

20 Now, what happens with those RECs if they're
21 sold into the market? We have stipulated that they
22 cannot be considered to be additional because that
23 project was already built. I think we've lost an
24 opportunity, in that sense, to achieve the scale that
25 this industry is capable of achieving. So, for every

1 megawatt of wind that's going in the ground there are
2 scores of fossil projects that are on the books or moving
3 forward. I think it's just very important that we
4 encourage the opportunity and we protect for the consumer
5 back to this idea before, the consumer wants to see
6 change. They want to see things moving forward, and that
7 is one of the things that the FTC and others can help
8 protect, the ability of the consumer to have an impact on
9 the market today.

10 MR. NEWSOME: Okay, thank you. All right,
11 Adam, let's go to you.

12 MR. STERN: Thank you. I wanted to build on
13 some comments Cameron made and some earlier statements
14 made this morning where a number of people described
15 carbon offsetting as a symbolic act. I think a number of
16 other people used the phrase, the warm glow that one
17 feels when one buys these or pushes the purchase button
18 on a website.

19 But, in fact, as the Professor from Santa
20 Barbara said, we've studied our customer base and the
21 reality is that a lot of people out there who have seen
22 Al Gore's movie, they've watched what happened with
23 Katrina, they've seen the shifts in the weird weather,
24 it's 70 degrees on January 8th in Washington D.C., and
25 they want to get involved and start doing something now.

1 Congress is having a useful debate on
2 legislation about how many tons should be reduced by 2040
3 or 2050, and that's great and that needs to happen. But
4 there are people and there are companies who want to take
5 responsibility for their share of the problem. They all
6 understood increasingly that we all, even if we try to
7 conserve, still have some dimension of a carbon
8 footprint. If you've conserved and you've taken those
9 steps, carbon offsets are a reasonable way to take care
10 of the rest for the time being until new technologies and
11 other things develop that will allow us to have an even
12 smaller footprint.

13 Today, not everyone can afford to buy a Prius.
14 I think our view is that there's nothing wrong with doing
15 what you can, offsetting the balance, educating
16 yourselves so that you learn more about what you can do
17 to be as environmental as possible. As long as the
18 offsets are independently verified, matched against a
19 standard, have clear dates as to when these projects
20 occurred, what kinds of projects there are, and an annual
21 audit that's published on the website or easily
22 accessible so that you know you really got what you paid
23 for.

24 MR. NEWSOME: Thank you. So, we have about 15
25 minutes. We've got David next. I would like to get to

1 at least two things before we end. We may have time for
2 more. I would like David, in addition to the comment
3 that you're probably going to talk about, consumer tips,
4 but I would also like if you could give us some
5 information about the state perspective on these issues.
6 David is from an office that, a lot of the kinds of
7 things that FTC does on the federal level, they do on the
8 state level. The State AGs Offices and the Consumer
9 Protection Agencies are very important partners for the
10 FTC and they have the same kinds of experience in
11 addressing these issues and they're also a very similar
12 perspective from us.

13 So, I'll ask David if you could address that.
14 Then what I would like to do is because nobody seems to
15 want to talk about additionality, I would like for us to
16 talk a little bit about that, at least have a question
17 from me, a very specific question. There are so many
18 different views on additionality, and it's an ongoing
19 debate and we've talked about all this. One thing that
20 there seems to be a general consensus about is the idea
21 that of regulatory additionality. If the activity is
22 required by regulation, then it shouldn't be used for
23 offset activity because it's something that would have
24 happened anyway.

25 First question, is that the case? Is there a

1 consensus on that? And, second, would it be useful for
2 FTC to provide an example in its guidance of regulatory
3 additionality or is it such a no-brainer that it wouldn't
4 be helpful to anyone?

5 So, let's start with David. And then if the
6 panelists could address that very specific question on
7 additionality that would be great. So, David.

8 MR. ZONANA: Sure. Let me start with your very
9 specific question. It strikes me that some of the
10 articles in the press that have been critical of the
11 voluntary offset market have cited examples where the
12 seemingly simple test of regulatory additionality hasn't
13 been met or the test of whether or not the project
14 already existed and whether it was business as usual had
15 not been met. So, I think it would be helpful to, in
16 some sense, state what is obvious to those in the room,
17 but not obvious necessarily to everybody thinking about
18 getting into the marketing of voluntary offsets, much
19 less the average consumer out there.

20 You wanted me to talk about a state
21 perspective. Let me do that very briefly. I think we
22 are or will shortly be wrestling with the question of how
23 voluntary offsets fit in or exist in a compliance market.
24 California may very well have a cap and trade system,
25 that's not determined by any means yet. But if it does,

1 does that mean that we would consider any projects in
2 California not fit for a voluntary market? And we just
3 haven't reached a conclusion on that question at this
4 point.

5 We are, I think, taking a close look at, as are
6 other states, this voluntary offset market because it is
7 growing so fast, and picking up on something Adam said,
8 because it has broad implications for climate change
9 policy and the public support for climate change policy
10 in the long term. If there is a crisis of confidence in
11 the voluntary market, there's a concern that that would
12 bleed over into support for mandatory programs, for
13 mandatory regulation reducing greenhouse gases, and I
14 think that would be regrettable if we saw that.

15 So, getting government involved, getting
16 enforcers involved, I think, is beneficial to this
17 market. The market is already doing a lot of things to
18 police itself as it matures, and we're certainly
19 interested in everything that's gone on in that front,
20 and we'll be talking to those who are both marketing the
21 products and those who are coming up with certification
22 and self-regulation regimes.

23 MR. NEWSOME: Thank you. Wiley, let's go to
24 you.

25 MR. BARBOUR: On the topic of regulatory

1 additionality, my first thought was, well, no, of course
2 you don't need to do that. Everybody agrees that a
3 project that's required by regulation is not eligible for
4 participation in a market because it's already been
5 required. But then I thought, well, you know, it's not
6 quite that simple.

7 We are developing an infrastructure and an
8 accounting system to enable us to have meaningful
9 environmental markets. Although we often talk about
10 renewable energy and greenhouse gas reductions as though
11 those were the only commodities, there are at least 71
12 programs in the U.S. and Canada for nutrient trading,
13 nitrogen or phosphorus trading within a watershed or a
14 tributary, and there are also trading markets for SOX,
15 NOX, and other local pollutants. So, really, the answer
16 of regulatory additionality becomes a little bit
17 complicated when you think about an project that may
18 impacted by regulations on dairies or on water quality or
19 on noise or odor abatement.

20 So, it is a little bit nuanced and perhaps it
21 is something that would be useful to address. If a
22 project has multiple environmental impacts, and many
23 biomass projects do, and then they're also subject to a
24 variety of different types of environmental regulatory
25 processes, landfills is another case where you might have

1 a variety of things that impinge on a project developer
2 and that would influence their decision to enter into
3 various permit conditions. The issue of was it required
4 is a little bit more tricky once you delve into those
5 details than might appear at first. So, I think perhaps
6 some looking into that would be important.

7 Let me just say one thing, also, that I'm glad
8 that I heard I think Matt and others pick up on. I
9 didn't want my comments to suggest that we will not have
10 a viable and dynamic voluntary market on top of and side
11 by side with a mandatory market. I truly believe that.
12 So, I didn't mean it to sound like I'm thinking of the
13 the voluntary market as just a ramp up to that mandatory
14 market. I do think it will be dwarfed in size by the
15 mandatory market, but if we can harness additional
16 activity, additional environmental benefit through
17 voluntary purchases and investments, that's a great
18 thing. So, that's what we want to preserve, the
19 integrity of the voluntary market as we transition into a
20 mandatory market.

21 MR. NEWSOME: Thank you. I think one thing to
22 keep in mind here is with this example that I have asked
23 about regulatory additionality and there are, as you
24 said, some nuances to it. But some of the examples we
25 have in the Green Guides are examples that if you put 50

1 experts in the room they would all say, well, obviously
2 you don't make that kind of claim. But at the same time,
3 having that example in there would be helpful to new
4 market entrants and others involved that don't have as
5 much knowledge or maybe more of a casual acquaintance
6 with what's going on.

7 So, let's go with Matt next.

8 MR. CLOUSE: Just to add further to that, we
9 get a lot of calls at the Green Power Partnership at EPA
10 about what counts and this issue still comes up of
11 whether or not they can count. The renewables that they
12 already get in the products they buy from, the product
13 they would get otherwise when they buy electricity, and
14 the answer is no and we have to explain why. But let me
15 further say that don't just limit it, the regulatory
16 additionality discussion to a renewable portfolio
17 standard. There are other issues that come up as well.
18 Consent decrees and others, we're happy to provide you a
19 longer list, but those things should also be filtered out
20 in that regulatory additionality test.

21 MR. NEWSOME: Well, one example I hear from a
22 lot of people are the regulated and non-regulated
23 landfills in terms of methane capture. So, there are
24 probably several different examples there.

25 Let's go to Anja.

1 MS. KOLLMUS: I get to talk about additionality
2 again, my favorite topic. A couple of things, what
3 Cameron and Matthew said about things being more complex
4 than my example indicated, my Prius example, that's
5 absolutely true and that's definitely true for the REC
6 market, how projects are financed very much have an
7 impact on the viability of the project itself.

8 In a way, also, the flip side of having very
9 stringent additionality requirements is that you
10 potentially punish someone who is a very good project
11 developer. If you have a project developer say somewhere
12 in India that really wants to bring this biomass project
13 online, and they're just a really creative entrepreneur
14 and they're going to say I'm going to do this because I
15 know it's good thing no matter if I can sell offsets or
16 not. So, it is a complex topic and there's always
17 several sides to it.

18 In terms of the regulatory test, I think it's,
19 in theory, very accepted and, in some instances, very
20 simple, say with methane projects from landfill. If it's
21 required by law, then you cannot sell offsets from it.
22 It is though, as all things related to additionality,
23 more complex than that.

24 One is the potential perverse incentives you
25 create by the offset market. So, if you have certain

1 regions who don't have legislation and then can sell
2 their offsets, those landfill owners are very likely
3 going to be opposed to regulation that are going to force
4 them to do that because they would lose the revenue
5 stream.

6 A second example which shows that the
7 regulatory test is not always that simple, this is a
8 hypothetical example too. If you have a city that has a
9 commitment to reduce their emissions, and within that
10 city, you have a company that is a member of the Chicago
11 Climate Exchange and they are doing a very good job at
12 reducing their emissions and they want to sell their
13 excess, they have exceeded their goal and they want to
14 sell their excess allowances through the CCX market.
15 Well, the city is going to look at the inventory, they're
16 going to do a citywide inventory to see if they met their
17 commitment and they are, of course, going to look at the
18 reduced emissions from that company. So, should that
19 company then be able to sell their excess reductions
20 through CCX? If yes, then they would be double counted.
21 There's no simple answer to this and there are many
22 examples like that.

23 MR. NEWSOME: Okay, well, thank you. Let's go
24 with Eric and then Cameron, and I guess that means,
25 Cameron, you will have the last word. One thing to think

1 about with this additionality example that I've thrown
2 out is, from the FTC's perspective, what I'm essentially
3 asking is if you sold an offset and you just made a
4 generic claim about the offset and it was based on say a
5 landfill that was regulated and EPA or the state or
6 whatever required methane capture, would the sale of that
7 offset and the claims, would those be deceptive to the
8 consumers?

9 The missing step there is, well, that kind of
10 assumes that the consumer has a general idea about an
11 expectation about additionality. So, there is a lot
12 wrapped up in this example.

13 So, let's go with Eric and then Cameron.

14 MR. CARLSON: I think you've raised a really
15 important point about what we can define and what we
16 can't. And I don't know of a certification body that
17 would allow the sort of project that you're referencing.
18 I guess it could happen.

19 And the other thing I think, as Anja and Wiley
20 and others have pointed out, is you can see how this
21 stuff can suddenly get very complex on one of the
22 objective additionality criteria. All the more reason
23 why I think we need to have technical experts dealing
24 with this, dealing with this in papers and in symposiums
25 and things like that and really talking about this.

1 But let me paint a different scenario and that
2 is, can you imagine if all of the marketers here on the
3 stage or out in the audience or around the country all
4 had their own standards, did their own verification, did
5 their own certification, had their own definitions of
6 additionality and so on and so forth. One of the things
7 that you rarely hear in the discussion about
8 additionality that I would like to ask people is just
9 define it. The EPA did a great job today defining what
10 they mean by additionality. Green-e defines what they
11 mean by additionality. Wiley does the same thing. To
12 simply say wouldn't have happened anyways isn't a
13 definition that any project developer can take to a bank
14 and say we meet this threshold.

15 So, that's another reason I think we need to
16 get away from these subjective areas, away from allowing
17 non-disinterested parties to define their own way around
18 this. That's why I guess I have said it a number of
19 times today and I'll just repeat it and be quiet, that I
20 think third party certification answers the question is
21 it real and who says so and what's behind it.

22 MR. NEWSOME: Okay, thank you. Cameron, you
23 have an opportunity, if you can keep it under a minute
24 you'll give your friend Adam a chance to speak. He has
25 his card up to add another comment. Then we'll wrap it

1 up.

2 MR. BROOKS: I think you asked a question after
3 the question about regulatory additionality, but, quite
4 frankly, I didn't hear it because I was so flustered by
5 the idea that I was going to have the last word. So, I'm
6 glad you'll be taking the last word.

7 But on that question, to me, it comes back
8 standards and I don't know of a credible standard that
9 would suggest that regulatory additionality is not a
10 concern. So, I'm inclined to suggest that it's not an
11 important thing to include as a specific guidance in the
12 FTC as long as you have included guidance to go to those
13 standards. Again, none of those would include that.

14 But as I was thinking about the last word, I
15 will offer up this last word and then I'll hand it over
16 to Adam, which is, again, I would come back to the FTC
17 has a great opportunity and I hope it's seized upon to
18 protect the consumer. I mean, there's a track record
19 that in my personal life I come back to, not having to
20 suffer the indignity of getting up in the middle of
21 dinner to answer a telemarketing call.

22 I suffer other indignities at dinner like
23 having my son throw food on me or, as I was coming out
24 here, giving a civics lesson to a four-year-old girl who
25 wanted to know what a capital was and she asked me

1 earnestly, daddy, is that where the king lives? I tried
2 to explain, no, despite what any individual politician
3 might think, we don't have kings here, we have
4 presidents, and then that led to a question, which,
5 honestly, if anyone here can help me answer, I couldn't
6 answer, which is what's the difference between an emperor
7 and a king.

8 So, usually when I get to these more
9 philosophical, but clearly unanswerable questions on my
10 part, my daughter has a great fondness for Yoda, and I
11 would said that's the kind of a question that a Jedi
12 master can answer. It seems to me with the discussion of
13 counterfactuals and additionality and all that, we really
14 do have a great need for a Jedi master that can answer
15 some of these questions for us.

16 In the absence of that, we do have at least one
17 man in a green tie which is close to Yoda. So, maybe in
18 the interim, you can fill some of that void, and it's all
19 you.

20 MR. STERN: All right. I do a Yoda imitation,
21 but...I want to thank the FTC and the staff for preparing
22 the session. I think it's been enormously informative
23 and I think it's worth stepping back for one minute,
24 perhaps as a closing thought, and recognizing that this
25 is an emerging industry, it's still at a relatively early

1 stage. But even in the last year, there's enormous
2 progress made on a lot of levels.

3 You have some top rate providers that have
4 served customers probably now in the hundreds of
5 thousands, customers who have been given a chance to get
6 more engaged in solutions to global warming. You have
7 two very respected accrediting bodies in Green-e and VCS
8 that, working through hundreds of public stakeholder
9 comments, have developed strong standards that now are
10 available for the market to use. You have people getting
11 more educated to the point that the word "carbon offset"
12 makes it into the Oxford Dictionary as the word of the
13 year. You have a constituency that's building in this
14 country in part because people are buying offsets, that
15 is pressuring Congressmen and Senators to take action on
16 this larger problem.

17 And, so, for those reasons, I hope the FTC will
18 do as much as it can to nurture this industry to help
19 strengthen it. There's a lot of good that can come out
20 of it with all the provisions of consumer protection that
21 can ensure people get a good deal, they know what they're
22 paying for, it's verified, it's publicly disclosed.

23 This is one of the more encouraging
24 developments in my estimation in terms of where we're
25 really going to move, if we're going to get our arms

1 around this whole problem of climate change. I hope the
2 FTC will help support that movement.

3 MR. NEWSOME: Okay, well, thank you. I want to
4 thank everyone for participating today. This has been
5 very useful. Thank you for coming and have a good
6 evening.

7 **(Applause.)**

8 **(The workshop was concluded.)**

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MATTER NUMBER: P954501
CASE TITLE: ENVIRONMENTAL MARKETING GUIDES REVIEW
DATE: JANUARY 8, 2008

I HEREBY CERTIFY that the transcript contained herein is a full and accurate transcript of the notes taken by me at the hearing on the above cause before the FEDERAL TRADE COMMISSION to the best of my knowledge and belief.

DATED: JANUARY 22, 2008

ROBIN E. BOGGESS

C E R T I F I C A T I O N O F P R O O F R E A D E R

I HEREBY CERTIFY that I proofread the transcript for accuracy in spelling, hyphenation, punctuation and format.

ELIZABETH M. FARRELL