## STATE OF VERMONT PUBLIC UTILITY COMMISSION

# CASE NUMBER 23-2221-INV

#### INVESTIGATION INTO THE CLEAN HEAT STANDARD DESIGN

February 23, 2024 10 a.m.

Workshop held before the Vermont Public Utility Commission via Go To Meeting on February 23, 2024, beginning at 10 a.m.

## PRESENT

STAFF MEMBERS:

Thomas Knauer Dominic Gatti Erin Hicks-Tibbles Tracy Myers

CAPITOL COURT REPORTERS, INC. P.O. BOX 329 BURLINGTON, VERMONT 05402-0329 (802/800) 863-6067

E-mail: info@capitolcourtreporters.com

## **PARTICIPANTS**

TJ Poor Ben Bolaski Henry Mauck Dylan Giambatista Annette Smith Jill Pfenning Greg Morse Dave Westman Thomas Weiss Matthew Bakerpoole Mary Bouchard Haley Roe Emily Roscoe Nick Persampieri Matt Cota Luce Hillman Ryan Vazza Ken Jones Rick Weston J. W. Hackett Emily Levin Jackie Pratt Emma Ardington Brian Woods Jackie Pratt Michael Lisorchek

HEARING OFFICER KNAUER: Good morning everyone. This is a workshop in Public Utility

Commission Case Number 23-2220-RULE regarding the

Commission's design of the potential clean heat standard rule. My name is Tom Knauer. I am the policy director at the Commission and I have been asked to lead today's workshop. Also in attendance from the Commission is Erin Hicks-Tibbles, Tracy

Myers, and Dominic Gatti who is a clean energy fellow from the Department of Energy.

Let's begin with a few administrative preliminaries. First please know that I will not mute anyone's microphone during today's workshop. This means that you should keep yourself on mute unless you are speaking. That way we can minimize disruptive background noises.

Second, as we work through the workshop if you would like to speak, please raise your hand or use the raised hand function on Go To Meeting. If I miss you, please just feel free to interrupt me because I value everyone's participation in this workshop.

Third, today's workshop is being transcribed by a court reporter. A transcript of today's proceeding will be available in ePUC. In

your name each time that you speak and also please refrain from talking over one another.

Having covered those preliminaries I would like to begin by allowing attendees who intend to speak during the workshop to introduce themselves for the record. If anyone intends to record today's workshop, please say so when you introduce yourself. Ken Jones, yes I see your hand is raised, please go ahead.

MR. JONES: Yes I am Ken Jones. I'm on the Technical Advisory Group.

HEARING OFFICER KNAUER: All right.

Good morning. So I will call on folks in the order that they appear in my screen and so no need to raise your hand for that purpose. Let's begin with Greg Morse, Vermont Gas. Dylan, I see that you are trying to speak, but we can't hear you right now.

MR. MORSE: Sorry about that. Sounds
like we're having a little bit of technical
difficulty here. I'll introduce our team. Greg
Morse from Vermont Gas. We also have Jill Pfenning,
Dylan Giambatista, and Mary Bouchard.

HEARING OFFICER KNAUER: Thank you and good morning to the Vermont Gas team. If there are

1	multiple people present from each agency or
2	organization, please feel free to just introduce the
3	whole team all at once. Next we will go to I think
4	it's Jonathan Hackett from Global Partners.
5	MR. HACKETT: Jonathan Hackett from
6	Global Partners. I do not intend to speak today.
7	HEARING OFFICER KNAUER: Okay. Great.
8	Good morning. David Hillman.
9	MR. HILLMAN: Yes hi. David Hillman. I
10	do not plan to speak today.
11	HEARING OFFICER KNAUER: All right.
12	Thank you. Rick Weston.
13	MR. WESTON: Good morning folks. This
14	is Rick Weston. I'm the Chair of the TAG. I'm not
15	planning to speak, but that might change but for now
16	I'm not. Good morning all.
17	HEARING OFFICER KNAUER: All right.
18	Yeah thanks everyone. You know I said please
19	introduce yourself if you plan to speak, but you know
20	I don't know if you plan to speak or not so I'm just
21	going to call on everyone give you a chance to say
22	good morning and introduce yourself. Annette Smith.
23	MS. SMITH: Annette Smith, Vermonters
24	For a Clean Environment. I do not know if I'm going

to speak today and I am not recording today.

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1	HEARING OFFICER KNAUER: All right.
2	Thomas Weiss.
3	MR. WEISS: This is Thomas Weiss. I
4	probably will speak today and, if so, I'll let you
5	know.
6	HEARING OFFICER KNAUER: Great. Matt
7	Cota.
8	MR. COTA: Hi this is Matt Cota with
9	Meadow Hill here on behalf of the Heating Contractors
LØ	of Vermont and the Vermont Fuel Dealers Association.
l1	HEARING OFFICER KNAUER: Haley Roe.
12	MS. ROE: Hi this is Haley Roe with
L3	Efficiency Vermont, and also with Efficiency Vermont
L4	today is Dave Westman who will be speaking and Emily
L5	Roscoe. Thanks.
L6	HEARING OFFICER KNAUER: All right.
L7	Good morning to the Efficiency Vermont team. Nick
L8	Persampieri.
<b>L</b> 9	MR. PERSAMPIERI: Hi Nick Persampieri.
20	I'm the Burlington resident. I don't know if I will
21	speak or not today. Thank you.
22	HEARING OFFICER KNAUER: Luce Hillman.
23	MR. HILLMAN: Hi good morning. Luce
24	Hillman. I'm with the Technical Advisory Group and
25	I'm not sure if I will be speaking, but I will

1	definitely be listening. Thank you.
2	HEARING OFFICER KNAUER: Henry Mauck.
3	MR. MAUCK: Good morning. Henry Mauck
4	with the Department of Public Service. Also with me
5	from the Department is TJ Poor, Ben Bolaski, and
6	Matthew Bakerpoole. Thanks.
7	HEARING OFFICER KNAUER: Good morning.
8	Emily Levin.
9	MS. LEVIN: Hi everybody. Good morning.
10	Emily Levin. I'm with Northeast States For
11	Coordinated Area Management and I'm also vice chair
12	of the TAG mostly here in listening mode.
13	HEARING OFFICER KNAUER: Jackie Pratt.
14	MS. PRATT: Jackie Pratt. I'm with
15	Michael Lisorchek. We're with Stowe Electric. I
16	don't believe we have any plans to speak today.
17	We're just listening.
18	HEARING OFFICER KNAUER: Ryan Vazza.
19	MR. VAZZA: Ryan Vazza from Global here.
20	I do not plan to speak today.
21	HEARING OFFICER KNAUER: Okay. Michelle
22	Keller.
23	MS. KELLER: Good morning everyone.
24	Also a member of the Technical Advisory Group. You
25	can probably hear my stuffy nose. I'm staying off

camera today and plan to listen. Thanks.

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HEARING OFFICER KNAUER: All right.

Feel better, Michelle. Brian Woods.

MR. WOODS: Good morning, Tom and everybody. Brian Woods, Vermont ANR Climate Action Office and I'm a member of the TAG.

HEARING OFFICER KNAUER: All right. think that's everyone. So the purpose of today's workshop is to discuss the process by which the Commission will set and triennially update or consider updates to the ten year schedule of total annual credit retirement requirements, the information and input that should go into the ten year schedules, and the process for considering any good cause temporary adjustments. The Commission requested participants to file written comments on this topic by Friday. I'm not sure if it was Friday, anyway February 19th, and we received written comments from the Department of Public Service, Efficiency Vermont, Thomas Weiss, the Vermont Fuel Dealers Association, and Clean Fuels Alliance America, and Vermont Gas. So my plan for this workshop is to ask questions based on my review of these filings. I know that my colleagues at the Commission have additional questions as may the

workshop participants.

If I don't have questions on your filing, it doesn't mean that I didn't read it. I did read everyone's filing multiple times. It just is an indication that it was clear and I have no further questions. So before I begin with my first question first I want to specifically thank the Department and Thomas Weiss. You both put out, you know, kind of straw proposals and it's very helpful to organize our thinking, and I think, you know, basically the Department and Thomas your proposals are actually in pretty good alignment with a few differences as to inputs. So it's a good place to start. Any questions about the plan for today's workshop? TJ, I saw your camera went on there. Are you getting ready?

MR. POOR: Just preparing. I assumed you had some questions.

HEARING OFFICER KNAUER: Great and folks, you know, feel free to have your cameras on so I don't feel like it's just me and TJ having a conversation, but anyway I am going to start with questions for the Department's filing. So the Department provided a straw proposal for the steps that the Commission will need to take to set the

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retirement pace for the program. So, TJ, do you want to walk through the proposal and I can ask questions as we go or do you want me to characterize what you put out there and I'm attributing to TJ, but I don't know if that's accurate or not.

MR. POOR: Well it's the Department's straw proposal. There's a lot of folks that worked on it so happy to do whatever makes sense for this workshop. If it's helpful to walk through it briefly, then I can do that.

HEARING OFFICER KNAUER: Yeah I would find it helpful. You don't have to read your filing but, you know, just give it a high level overview of each step and I will interrupt you to ask questions and invite others on today's workshop to also ask questions about each step.

MR. POOR: Yeah and again I think we put this forward as a -- characterize it intentionally as a straw proposal because there's likely improvements that could be made to this, and so happy to get all kinds of feedback today that can inform the subsequent comments and how the Commission moves forward.

I'll start with just an overview. kind of separated this into two phases and the first

phase is really just I think is relatively -- they're objective relatively simpler steps that just need to be done, and that goes to how we really establish the amount of emissions reductions necessary from each obligated party, and really according to the Global Warming Solutions Act greenhouse gas inventory, and I'll just -- one of the reasons we wanted to lay this out is to really get on the table the differences between the required calculation of clean heat credits and which need to be done on a life cycle basis and the translation of those to emissions reductions requirements for obligated parties which need to be on an accounted for based on the greenhouse gas inventory pursuant to the Global Warming Solutions Act.

So to do that we start with the Global Warming Solutions Act requirements and we just really need to start with a reference here whether that's 2022 before early action credits were started to be created or if it's a more recent year I think relatively soon or some time in 2024 we would have data for 2023, and so establishing that reference year to start from is just our starting place, and then we need to look at 2030 and see where we need to go for the thermal sector and that needs to be based

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HEARING OFFICER KNAUER: Matt Cota.

MR. COTA: Couple things. One is there

on the proportional requirements of the thermal sector to meet those overall GWSA requirements.

HEARING OFFICER KNAUER: Thanks TJ. I'm going to halt you right there. Let's start with the reference here. I know Ken Jones raised his hand and I also have some questions.

MR. JONES: My question is in regards to the use of the inventory and the use of Tax Department data. Again I don't know whether the PUC requests orders or whatever, but it's sort of a reconciliation of those two is going to be helpful because the inventory is always going to be delayed by a significant amount while the Tax Department data is available, you know, this year. We have the 2023 data available now, and it may even be, and again this is what I look to the Climate Action Office to help with, it may even be a better number because it is indeed a census of consumption, and I'm not sure that EIA is able to accomplish a complete census, but again to -- one of the steps I think important is to sort of get a reconciliation so that we have a common hopefully timely set of data in which to review. I'll leave it there for now.

is authorizing language pending still in the Senate

Natural Resources Committee which would allow that

information to transfer. Why -- it wasn't proposed

by us. I'm not sure why it was proposed or who it

was proposed or why the existing statute isn't enough

to transfer that data, but it's there and would need

to be passed.

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The other comment I would make is the EIA data is a survey methodology. A lot of zeros at the end of those gallon numbers. So Ken is right. Ken is also right that the Tax Department has a lot of great information, but it doesn't have all of it and it's not complete with only since July 1st of 2023 that the Tax Department in response to this law began collecting information specific to fuel types. Prior the fuel type was blended altogether. Whether you sold kerosene, heating oil, or propane on your fuel tax form it was one number. It wasn't differentiated by fuel type. That has changed and that's a good thing, but the other point to make is remember the fuel tax, the data collected on down to the gallon every 25th of the month you only have a half year supply of gallons, but you only have one point. You only have retail. The fuel tax is not assessed on -- it's a different universe of

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providers. So to say that the -- when the registry comes in with the gallons that they will match up it's not going to happen because you have wholesalers do not have to pay the fuel tax. It's only retailers. The entity before it is consumed or sold to a consumer who ultimately burns that product. It also includes all products including biodiesel which is not part of the clean heat standard and also includes fuel that is used for non-thermal purposes; generators, cooking. So it is an important data point. If the law allows it then there will be some exchange of information, but it will not be a complete picture. Not at all. It will not trace that molecule, carbon molecule, as it crosses into Vermont bought and sold and bought and sold and bought and sold before it gets to a wholesaler -- or excuse me to a consumer. So I agree with Ken mostly, but it's not going to provide a complete picture and it's not going to match up. Even the entities that pay are not going to match up with those who register. Thank you.

MR. POOR: So I have a couple of questions actually that raise -- or thoughts. One is that one of the sentences that we put in our filing or one of the comments is we also need to be careful

1 to normalize for weather or extreme events. We don't want to just assume if we have like a super, super cold winter and there's higher demand we could incorrectly set an obligation pathway into 2030 that -- or vice versa if it's a really warm winter we may 6 not set a high enough obligation. So we just need to

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take care.

I agree that the tax data is really useful input and I think I also agree that it's probably not the only input. My understanding and -is that the greenhouse gas inventory references or will reference the tax data that is now available based on Act 18 to ANR and the Public Service Department, but again may not -- may not only use that data source. I don't know -- I can't remember if ANR is on the line or if they are, if it's the right person to verify that or not.

MR. WOODS: They are and it's not the right person.

MR. POOR: Thanks Brian.

MR. WOODS: I'm happy to bring that information I guess back to the TAG is the most appropriate place to see what the methodology is, but the goal of course is to get the most timely and most accurate information that we can on an all fuels as

possible inventory. As you acknowledge there's still going to be a lag in preparing it.

haven't gone too far through the Department's proposal. If folks want to continue discussing or debating, you know, what's the source for establishing our reference year to begin this calculation, you know we can continue to have that discussion now or I would really like people to, if nothing else, really in your reply comments, you know, let us know what's -- what are the advantages and disadvantages of using either tax data or the inventory data.

MR. WEISS: This is Thomas Weiss.

HEARING OFFICER KNAUER: Please go
ahead.

MR. WEISS: On the tax data I would suggest getting the tax data that even though it's -- has fuels gathered together into larger categories as opposed to more individual fuels, to compare that data with the data from like the last five years in the greenhouse gas inventory. So that would be 2013 through 2017, see how they compare as a basis for how good or not good use of the tax data might be, whether there's some kind of like a consistent

difference factor that could be applied or whether it looks more totally random, and make the decision on use of the tax data along those lines.

that suggestion, and I did want to point out, I noticed this in your written comments, Mr. Weiss, I think you were referring to maybe a dated inventory. When I was looking at this last night I was able to find a more recent greenhouse gas inventory that was released in 2023 I believe and that gives additional years of inventory relative to what you referenced.

MR. WEISS: The one I referenced is the last available on the DEC site listing all of the greenhouse gas inventories. One issued in 2021 going to 2017 is the last they had posted on it as of like two days ago. I'm not sure where you got yours, but it's not readily available with all the others.

HEARING OFFICER KNAUER: Yes. I ran into that as well and I believe I saw on that web site that the climate -- I don't know if it's the climate council web site now hosts the inventories and so I went there and was able to find a more recent one.

MR. WEISS: Thank you for that information.

1	HEARING OFFICER KNAUER: Go ahead,
2	Brian.
3	MR. WOODS: So Tom is correct. I just
4	posted in the chat the link to the climate office
5	where the latest greenhouse gas inventory is, and my
6	apologies to everybody who is referencing the other
7	list, particularly you Mr. Weiss. I'm working with
8	the group to try to get those sites to cross
9	reference. So the one the old one at DEC does
10	have all the historical reports, but it doesn't have
11	the latest one and the one at the climate change site
12	has the latest one but not the historical one, and we
13	are working to correct that, but please pick up the
14	link that's in the chat.
15	MR. WEISS: I'm the one who's calling or
16	the telephone so I don't have access to the link on
17	the chat.
18	HEARING OFFICER KNAUER: Mr. Weiss,
19	we've got your contact info so outside
20	MR. WEISS: Send me the link. You don't
21	have to send me the document.
22	HEARING OFFICER KNAUER: We'll do that.
23	MR. WEISS: Thank you.
24	HEARING OFFICER KNAUER: You're welcome.
25	Anyone have any comments on Mr. Weiss's suggestion to

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1 kind of use tax data to kind of calibrate or cross check inventory data? Do you have any thoughts on that? Matt.

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MR. COTA: While I have this platform at the risk of sounding -- repeating myself the data really only is good from the Tax Department starting July 1 when we segregate gallons. The good news that's what it's going to be going forward, but looking back prior to July 1, 2023 it's going to be a mess. It's going to include the biodiesel fuels which is for off road purposes. So July 1 going forward good data in terms of what we sold in Vermont propane, heating oil, kerosene. It's everything. We paid two cents a gallon on heating oil you sell to a municipality or kerosene that you sell to a farmer to propane you sell to a restaurant, but still at least you have that.

The second point I will make, and I'm going to make this in a filing too because I think critically important, when the registry numbers come in if it's lower than the Tax Department data, that's a problem, right. That's not accurate, but it should be many multitudes higher because remember that carbon gallon is sold many times. It's not -- in a system like a pipeline like Vermont Gas System they

are the importer and then they are the seller. It's very clean. It's very easy to track. It's a lot more complicated in that a gallon will be sold multiple times. It will be sold in Vermont but consumed outside of Vermont. It will be purchased outside of Vermont and sold in Vermont. So I just caution anyone who thinks that the tax data is going to be some sort of solve in creating some sort of compliance mechanism. It will be helpful, but it will not match up and people will be scratching their heads why doesn't this match up. There are very good explanations as to why.

The last thing I'll say is when we're talking about -- TJ brought up the weather correction. If I could wave a magic wand, I would change the registration date so it wasn't January in the middle of our busiest month, number one. Number two, I would change the compliance period so it's not a calendar year but a heating season July 1 to July 30. That would make much more sense in accommodating or understanding the variations in weather. We -- the weather is 18 percent warmer this winter than the normal. We all know this. We can look outside. Our gallons will be 18 percent roughly less than the normal winter. So having an ability, and I know you

don't have this ability but I'm just going to say it anyways, having the ability to look at our progress not on a fiscal year -- or, excuse me, a calendar year but a heating season July 1 through June 30 would make eminently more sense in terms of understanding how this program works in ensuring compliance. Okay rant is over.

HEARING OFFICER KNAUER: Thank you. I don't consider it a rant. I consider it helpful information to know. Brian, I see your hand is raised. Is that current or is that an old hand?

MR. WOODS: I'll take it down.

HEARING OFFICER KNAUER: So I did want to move on to the concept of kind of weather normalizing. So, TJ, do you have a proposal about how we would do that? What's the calculation? What's the information that we would use to perform that weather normalization?

MR. POOR: So there could probably be a couple of ways and have not thought this through in detail, but using the amount of heating degree days could be a way to normalize. The other option I suppose would be to use kind of a -- not necessarily a reference year, but a reference value that was the average of several years, you know the last five

1 years or something like that, and that may not be perfect, but it could get closer, and the others there's going to be a need on this to just blend -there's a need for simplicity in setting this and 4 getting close enough, but also recognizing, you know, 6 we don't want to be starting 18 percent off in a extreme case scenario. So just taking a look. I 8 don't want to over complicate the establishment of 9 that, but be aware of complications. 10

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HEARING OFFICER KNAUER: Thank you. Does anyone -- do any workshop participants disagree with the suggestion that some normalization happen when setting the reference year?

MR. COTA: Can I go back in time and ask for a clarification, Tom? We're talking about setting the reference here. Are we talking strictly about greenhouse gas inventory or are we talking broadly about the obligations of those obligated entities?

HEARING OFFICER KNAUER: I think we're talking about where are we starting from as we set a ten year trajectory for reductions.

MR. COTA: Okay. So that's on greenhouse gas emissions. That's not -- we're not talking about the payments or the credit requirements

of the obligated parties referenced to prior year because I have a whole lot of thoughts about that, but less about ten year greenhouse gas inventories.

MR. POOR: Not yet. The straw proposal gets into credit values and setting the actual clean heat credit obligation so I think we would get there in this conversation in a few minutes, Matt, but right now I think we've been talking about just the greenhouse gas inventory.

MR. COTA: Okay.

HEARING OFFICER KNAUER: Michelle Keller and then Dave Westman.

MS. KELLER: Thank you, Tom. With respect to either reference I may have missed this somewhere, but are we planning to leverage any more being done by either the technical consultant or the folks doing the potential study for what their assumptions are?

HEARING OFFICER KNAUER: That's a great question and I think this is a good time for me to speak to the PUC's consultant. I don't know their scope of work. If everyone remembers what Act 18 directs the Commission to do, it is to hire a technical consultant to do measure characterizations, clean heat measure characterizations, and really want

to kind of highlight, underscore this, that it's not
a technical consultant to solve all of the problems
in the clean heat standard rulemaking. Their scope
of work is limited to clean heat measure
characterizations.

So I would say that's a no, Michelle.

They are not working on kind of setting the pace or the trajectory. So that's only, you know, for -- you asked about both of the consultants so that's the answer from the PUC.

MS. KELLER: Okay. So my question was more they won't have a definition of heat. That's my question. It was more a followup in response to Tom's -- to Tom's comment that neither of the consultants currently on board are looking at defining this reference here the weather year against which the pacing will be set. Does that help? The second was a followup not so much a question.

HEARING OFFICER KNAUER: Yes I could hear you that time, Michelle. Does anyone from the Department want to answer whether that is within the scope of work for their potential study consultant?

MR. POOR: So Matthew may be able to answer this better than I. The potential study will -- and we'll talk about this in a little bit -- it's

doing measure characterizations, so how much savings we get from each individual measure on a carbon basis. So that part does not need a reference here necessarily. It's just a measure what we're saving, and then it will be, though, creating an estimate of the technical potential. Again this is how much we can save which starts from -- it's going to start from our thermal use.

So I think there will be a projection of our kind of baseline thermal use so we can see how much the technical -- each measure will save and then it will break it down further to program potential, you know, given market barriers, et cetera. There are other pieces, economics being another one.

Matthew, does that sound right? Did I go off base anywhere?

MR. BAKERPOOLE: No that sounds right to me. That's a question we can take back to the contractor and ask how they are going to normalize for predicted weather changes. I'm sure they are going to do that. I just haven't thought to ask what method they are going to use. So we can get that information and include it in our reply comment.

HEARING OFFICER KNAUER: Thank you.

Dave Westman, thanks for your patience. You're up.

MR. WESTMAN: Thanks. No problem. It's a good discussion. I guess this is a good time for us to weigh in by reflecting that EEU's comments on this particular topic were that we understand the need for some clarity and these workshops are helpful

some of these technical matters should not become a

in providing that clarity, but that fundamentally

or perceived as being a policy derived -- you know multiple parties can sort of have technical

disagreements and you know having this live out very

long in the regulatory workshop process makes it feel

like we're having technical discussions in a venue

that's more suited for debate over -- substantive debate over policies and rules.

issues like this need to be developed by the

Commission's third party technical contractor and

then reviewed by the TAG. I see the TAG as being

primarily a good venue for these types of technical

discussions. So that's my first comment, and then my

second comment is more of a question directed perhaps

at people who know more about these things than me

which is in the reading of Act 18 the clean heat

standard sets a target for the thermal sector to be

in a proportional reduction equivalent to -- probably

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not saying that right -- but a proportional reduction that is at pace with the other greenhouse gas reduction requirements established in the Global Warming Solutions Act. It's a bit of a mouthful, but as a point of reference do we know what those numbers are as a state? Do we know if we achieve a greenhouse gas inventory of a certain amount that we can claim success for that, and then I guess the next question would be is if we know that number, which seems like it should be relatively straightforward and I'm sure our friends at ANR and other divisions have figured out what that number would be, have we done that work to sort of identify what the proportional thermal equivalent would be; and so I guess what I'm saying is that we're spending a lot of time talking about what the credit amount of reductions would be, but it seems like starting at the sort of basis point or the sort of base level of understanding of Act 18 would be to say what is the desirable emissions, you know, as seen by the inventory in the thermal sector. So sorry if that's a little bit of a bigger picture question, but anyone wants to respond or provide clarity for me that would be helpful. Thanks.

HEARING OFFICER KNAUER: Yeah, Dave, I

think you just referenced kind of the next step in the Department's straw proposal which is going from reference year that's been normalized to what is the thermal sector share of that inventory, and I see, TJ, you raised your hand right away so I'm going to go to you.

MR. POOR: Yeah I think that is exactly what I was going to say is the next step is to establish that value. I do think that the climate council -- actually I'm reminded that they established a reference year actually of 2018 and that is another option in that to get proportional reductions from each sector using that year as a basis. We know the overall target for the state and then climate council used 2018 as a basis to split that up by sector and that may be -- I had suggested 2022 earlier, but perhaps 2018 is a good reference year if that's what the climate council is doing.

HEARING OFFICER KNAUER: Dylan, go ahead.

MR. GIAMBATISTA: Dylan Giambatista from Vermont Gas. I think 2018 to the extent that it aligns with the assumptions of the climate council and the data and science that they have considered relative to achieving the 2025 reduction, 2030

reduction, and the 2050 reduction could be a good starting point, and of course we know that for this law it's 2030 and 2050 and that the Global Warming Solutions Act is based upon the 1990 levels for those two years, but 2018 is where that inventory was locked which we assumed would constitute a baseline for analysis.

HEARING OFFICER KNAUER: Dylan, just to make sure I understand what you're saying what I heard TJ say is 2018 was used to divide up the pie saying thermal sector is -- we're going to say thermal sector is x amount of total emissions so it's used for the sector allocation. Is that also what you're saying, Dylan?

MR. GIAMBATISTA: Correct.

HEARING OFFICER KNAUER: Great. Thank you. Ken Jones.

MR. JONES: Yeah I have some numbers in front of me and it wraps in with the earlier discussion. 2018 was 5 percent colder than 2022. So, you know, this whole concept of baseline year I know it's important, but really what we want is, and I think Mr. Weiss did a good job because he provided a visual representation, is the full trajectory from any starting point year but through the period that

this process needs to establish targets. So sure you can use 2018, but the fact is we know a great deal of what happened between 2018 and 2022 and so the clean heat standard kicks in in 2023, and so to me it's very important to represent the trajectory from 2022 as a starting point preclean heat standard to 2030, and I also want to provide a little bit of a cautionary piece with regards to the use of the work done for the climate council. Their business as usual scenario includes a great deal of creditable activity so we can't presume that the clean heat standard builds on business as usual. It really relies on a great deal of activity within business as usual. So for those folks who looked at that work and see oh yeah we're going to see a great deal of progress we only need to do a small increment to get to 2030 it's only because the business as usual scenario includes a great deal of large, large, large amount of creditable activity.

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HEARING OFFICER KNAUER: TJ.

MR. POOR: So first I just want to caution there was a comment about the climate council using science and data to create their proportional share. That didn't happen. It created a proportional share, but it was not -- as far as I

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know it was not based on specific data or science, but regardless it did pick a value and I think that's the relevant piece here, and I think to Ken's point I think I agree with Ken also and I think it's a yes and. I think they are both right. So we need the 2023 target, right, can be developed based on this proportional share according to the climate council said we need to get this much from each sector, but then the reference year for setting obligations could start with a much more recent year if that makes sense. So set the 2030 -- 2030 is the kind of the first relevant year needing a target standard maybe designed to get to that. So using the proportional methodology of the council to get to that number could be a process and then say okay how are we getting from here to there. Well when we say what is here we're actually at 2022 in terms of what each obligated party has -- what their baseline is.

HEARING OFFICER KNAUER: I'm not seeing any hands. Just kind of want to recap. It would be great to have folks in their written filings talk about what information to use to establish the reference year, talk about whether we need to normalize that reference year, and, if so, how and what information would be used for that

normalization, and then what process and what sources of information would be used to establish the thermal sector's proportional share. So imagine that we're writing a rule which we're actually going to do. You know we want to try to bake all these factors in.

I believe the next step of the

Department's process would be to establish the

emissions reduction requirements for each obligated

party based on the previous steps and the

Department's proposal is to use the annual

registration data to assign each obligated party its

proportional share of the total thermal sector

emissions. TJ, do I have that right?

MR. POOR: Well yeah that's what we said in the filing. What Matt said earlier makes me worry that using the annual registration data might not be the right value. I don't know what it is, but it sounded like that registration data is going to be, you know, if a gallon gets sold several times for instance and that's all in all the registration data, that could create a challenge for just using the registration data. I guess I'm not sure and would like Matt or others to comment on that.

MR. COTA: The registration data will first determine who is obligated in a situation where

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a fuel retailer purchases a hundred percent of their gallons from a Vermont wholesaler, then they have to report their gallons, they have to register, but they would not be obligated under the law, and then that's the easy -- that would be the easy one, but that's a small minority of registries. Most registries will purchase some, if not all, of their gallons from Quebec, New Hampshire, New York, or Massachusetts, and then it becomes a map equation to determine what gallons were brought into the state by what entity and whether those gallons were ultimately consumed in Vermont or they were brought out of state as often happens, and that I assume would fall on the PUC to determine that. The tax can provide the information, ANR can analyze it for greenhouse gas emissions, but I think it's ultimately on to PUC staff to determine which gallons are obligated and which entities -- or, excuse me, which entities are obligated based on that data, and the other thing I would point out is buying patterns change. We don't have a pipe coming from Quebec that was put there 50 years ago that will be there for another 50 years. We got trucks and we got trains and they come from all over and what you -where you purchase your fuel in 2024 might be completely different in 2025, and as we think about

how to assign obligation to gallons we also know that
there will be changes in buying patterns because of
this law, but even without this law because it
happens every year depending on price and
availability.

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HEARING OFFICER KNAUER: Thank you,

Matt. Ken Jones, you raised your hand and then TJ.

MR. JONES: I think Matt's last point was really important because I know the way the legislation is crafted and I think all of our assumptions is that the obligation is going to be based on a past sale pattern, and if indeed that changes, and I throw it back at Matt because I wouldn't know how to go about kind of solving this, but is there a way for the obligated parties to make an adjustment -- you know the obligated party, if it's established on prior year sales and yet they changed markedly from the next year, is there a way for those obligated parties to work internally to transfer the responsibility. I wouldn't know how to do that, but I think that is going to be very important because if you establish an obligated party to a specific credit requirement and yet they don't carry out many sales during the next year through this process of assigning sale, I can see that being

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MR. POOR: I was just going to ask, you

TJ.

really problematic, but again I hope that Matt's clients can help us establish a mechanism so that it's less problematic.

MR. COTA: We are at cross purposes here because in some respects having a simple system in which you pay on the 25th of the month for the prior month of sales makes a lot of sense. That's how we do our fuel taxes and that's how we do our fuel taxes on heating oil and that's how we do our gas taxes on gasoline and diesel fuel yet at the same time heating fuel is purchased differently. Heating oil in some cases, not all, but some cases is purchased 18 months in advance. That's the benefit of having prebuys or guaranteed price programs. That's part of our filing. I know Tom will get to that, but if he's going to ask it which is we would like to know what the obligation is 18 months prior to when it is due because that will influence the contracts that we purchase and the contracts that we sell to our downstream customers, and I don't know how to solve this riddle, but I'm not giving up. I'm just saying it's a challenge because they appear to be at cross purposes.

HEARING OFFICER KNAUER:

know, just focusing in on -- well two things. I guess I'll respond to the latter point. You know there could be a process where you know the default is that the obligation is set based on past sales, but if the obligated party says, you know, petitions and say hey we're doing this completely -- we're purchasing completely differently and please change our obligation because things have changed, then that may be a process that opens the door there.

Again I'm a little confused because I feel like if it's a fuel gallon purchase from New York versus a fuel oil gallon purchased from Quebec it still has the same emissions impact. So I'm confused there, but we can work through that.

The other thing I was just going to ask

Matt is the registration data the right source though

to set obligations for the obligated parties or is

there a different way to set that? In our proposal

we said use registration data and then I still am not

sure if that is going to be sufficient or if it's

used a bunch of different sources or if it's a

different source altogether.

MR. COTA: It is my understanding that it has to be the source. That this is the hybrid model that the Legislature Act 18 provides which is

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they wanted to move -- they wanted to -- fuel taxes on retail. We deliver it to your house, goes into your tank, you burn it, the fuel company pays it, they collect it from the consumer, but in the effort to move the obligation upstream they realized that it couldn't go beyond the borders because of federal law and taxing an out of state provider, but they could tax at the point of import. That's how it happens with gasoline. So we have this odd situation where a small dealer who just purchases a couple hundred gallons from Walpole, New Hampshire is obligated and has to buy credit as is the largest wholesale provider in Burlington with tens of millions of gallons. So they are the same regulatory suit which is what makes it confusing. Now that small dealer may then choose to buy from a Vermont based distributor to avoid that obligation, but at what point does that obligation hit that they have to pay so they can price their product correctly, and if they don't price their product correctly, there is no rescue plan for them or their customers who depend on this essential commodity for heat and hot water. it's really important that we get this right.

MR. POOR: Right. I agree. I did hear you say that the registration data is the primary

source, though, and I just -- I'm honing in on that because that, as Tom said, we got to make a rule and say what do we use.

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MR. COTA: But it's how do you do it because if you have to put it on -- so there's the effort to move it upstream. Let me explain it -clarify it. When you move it upstream as the legislation requires so it's not all on the little dealers, it's mostly on the little dealers but it's also on large wholesalers, in-state wholesalers, they don't pay the fuel tax. Zero. Because of that you can't have it on the tax data -- fuel tax data under the law which says no it's got to move upstream for in-state wholesalers. So we have a disconnect here in terms of the legislation requires it to be on the entity that brings it into Vermont not the final point of sale. Final point of sale would be a larger number of obligated entities, but that's not what the law says, and I think they did that purposely so that they would ensure it's not all on the little guy. It's only a little bit. It's only somewhat on the little guy, but the result of the matter is we have no collection mechanism in law other than the registry in order to establish obligation. So I'm circling around your question which is, is that the

best way to use it. It's the only one we've got and we don't even have it yet. By my calculations we have 30 percent compliance with the registry. That will change on Thursday, but once we have that and once we are close to a hundred percent compliance that will not only be the appropriate law, but it will be the only one until the law changes.

HEARING OFFICER KNAUER: Thanks.

MR. POOR: Thanks. That was really helpful.

HEARING OFFICER KNAUER: All right. So barring any other discussion I think we're ready to move on to step two of the Department's proposal which is translating the emissions reduction requirements into clean heat credit retirement requirements. So someone from the Department want to walk us through the first part of that?

MR. POOR: Sure. So it's step one is to establish clean heat credit values. Those are in life cycle terms -- step one of phase two. Those are in life cycle terms and so we need a life cycle value for fuels; all fuels, propane, electricity, fuel oil, probably electricity based on your service provider maybe that we should talk about that for biofuels and natural gas, different values from different

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feedstocks, and then in that -- I don't think we -well I think we referenced it that those should be done basically by contractors and as reviewed by the technical advisor, and then within that next step there's also the value -- the measure characterization of each clean heat measure needs to be identified. So what is the impact of installing a heat pump or, you know, replacing a therm of natural gas with one of renewable natural gas and have that be the measure characterization. The Department's potential study consultant and the Commission's technical consultant are -- both include measure characterization in their scope of work. I think they will be coordinated and it will be important for them to be coordinated and then have the Technical Advisory Group -- this is one of the TAG's primary roles in our mind -- is to review the measure characterizations and develop the value of certain measures. A lot of those are going to be prescriptive. Just to be clear to everybody we're not going to have a -- I wouldn't imagine I should say, it's not decided, but I wouldn't imagine it would be workable to have a heat pump installed in my home in Montpelier that has a wood stove and fuel oil as the current primary heating sources and have that

have a different value than one that doesn't have
wood or doesn't use -- uses propane. You probably
need statewide averages making that a prescriptive
value.

There would also need to be a process for creating custom credit values so if there's a big unique commercial project, for example, that is saving a lot of fossil fuel and a lot of greenhouse gas emissions there will need to be a process to -- for obligated entities to claim that and for the Public Service Department to verify those claims.

So that was a lot of words, but measure life cycle emissions value of each fuel and leading into measure characterization in order to create clean heat credit value.

HEARING OFFICER KNAUER: Thank you, TJ, and I appreciate you bringing up the point about prescriptive measures as well as custom measures. I don't want today's workshop to go down the rabbit hole of what are the details of measure characterizations. That's a very important topic and we will get to that in this proceeding, but that's -- let's not focus on the miniate of that in today's workshop. Ken Jones, you raised your hand.

MR. JONES: Yeah I want to kind of

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highlight what I think is a significant policy issue here. I agree that the -- for the traditional fossil fuels; natural gas, propane, heating oil there is a life cycle analysis that's a fairly constant increase although it's different. I mean the natural gas has a greater proportion increase at least in the draft life cycle analysis that I reviewed than does propane than does heating oil, but it's fairly constant over time. It's not going to change a whole lot. I think where the real issues are going to come into play are the -- call them the biologically derived fuels, all the renewable fuels, because the inventory treats them significantly different. As we know wood is treated as a zero emission fuel and we know that there are people very, very interested in that topic that will say no but it's not a zero emission fuel, and that is what's going to be a very significant difference therefore in inventory derived credit amounts and life cycle analysis credit amounts more so I think than the call it a fairly simple mathematical exercise of converting an inventory based fossil fuel utilization and reduction credit, and anyway so that is a highlight that yeah again we're not going to resolve today, but I think really needs to have a particular focus because again when

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we take the various entities, groups that are interested in this proceeding have vastly different perspectives on that, and they are going to need to be addressed and it's going to fit right here with that sort of when you put in advanced wood heat it may give you inventory based credit, but it may not give anywhere near the amount of credit when considering the life cycle analysis.

MR. POOR: So in general agreement with you. The step that we're -- I was outlining here was specifically for clean heat credit values and those are only based on life cycle emissions. So the next step is to translate those between life cycle and inventory, but I think, you know, we can talk about that in a second, but I want to just focus on one thing that you said is I think just saying what the value is, is a relatively I won't say simple, but it's a straight -- more straightforward process of this is a life cycle value, and that seems like a Technical Advisory Group issue of this is a life cycle value of biomass depending on the feedstock and this is a life cycle value of renewable natural gas depending on the feedstock, and then in the measure characterization it's, you know, all we're doing to create the clean heat credit value is we saved these

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life cycle emissions from fuel oil and then we caused life cycle emissions from the replacement biomass and so the difference is the clean heat credit value, and then we can talk about in a minute how we translate that to an obligation which is based on the inventory, but I tried to be clear, but it's about as clear as mud when we get into this issue.

HEARING OFFICER KNAUER: Dave Westman.

MR. WESTMAN: Thanks. I guess as a point of clarification I may -- I may have a substantive disagreement with how this is being characterized or thought about, and so this is therefore helpful and illuminating for understanding how this rule should be written because I'm trying to think what the -- what good rule language would be helpful for -- and without asking the Commission exactly what they want to include in this rule right now I'm thinking along the lines of a sort of standard -- a standard assumption like a line at which point everyone can sort of understand we are talking about. So if the Commission is responsible for issuing the number of credits that are proportionate to meeting the state's greenhouse gas reduction goals, and Act 18 alludes to this that a credit is proportional to the greenhouse gas

reduction that it results in, so therefore a clean
heat measure creates clean heat credits.

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My suggestion is that on that basis we should look at the number of credits that are needed as one clean heat credit equals one ton of greenhouse gas reduction as measured by the inventory because the Global Warming Solutions Act is the sort of basis point and the inventory point. So there may be technical reasons that -- I see TJ just raised his hand so he wants to respond which is great. suggestion is that if you set a credit value equal to one ton, then individual projects don't get whole credit values, they get partial credit values, and those credit values are assigned based on technical evaluation and fuel use, and so I know that complexifies the project accounting, but I think creates a more understandable rule for how to structure this. So if one credit equals one ton, then you're going to have, you know, smaller, you know, less than -- less than interger credits essentially created in a project and I know that's complex, but I don't know to me it seems like the only sort of streamlined way out of this complex issue of measuring the lifetime credits. Thank you.

MR. POOR: So I agree with your

sentiment there and that would be the ideal I think
of what you're proposing. I just don't think it's
allowed by the law. So a clean heat credit must be
based on the life cycle emissions and so it cannot be
based on the greenhouse gas inventory emissions in
GWSA requirements so we have to come up with a way to
translate those two, and so unless I misunderstood

also is not allowed.

HEARING OFFICER KNAUER: Matt Cota, do you want to say something?

you I think your proposal is the logical one, but it

MR. COTA: Well logical -- I don't have a specific comment on that, but the logical is the preferable, the more workable. I always say that, but I really want to understand Dave's point which is you generate credits based on actual reductions or based on anticipated reductions due to standards set in the TAG? Did I understand you correctly if we perform a measure, it reduces consumption of fossil fuels thereby reducing greenhouse gas emissions, we could prove that happened, then a credit is achieved or is it a measure receives credits when it is installed? In other words, we install a heat pump today we get the credits today and we don't have to prove that it reduces fossil fuel consumption later.

Am I making sense? I'm just trying to figure out
what path we're heading down.

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MR. WESTMAN: Matt, that's a great question and I can tell you that the experience from the efficiency utility is that you make assumptions about how a measure will reduce fuel use or increase efficiency depending on how you are measuring it. you make assumptions about that measure and how frequently it gets used in a standard methodology based on a sort of average consumption profile then gets recorded in the technical resource manual, and that sort of becomes the de facto assumption that you know one heat pump installed results in this much fuel switching for tier three and this much electric efficiency for electric savings, and then you just sort of move that going forward and you don't go back to every single home where that -- where a heat pump was installed and verify with certainty that that savings occurred. You make assumptions, make assumptions, and you go back and do a statistical analysis after a number of years to confirm a sample set of those units performed in the way you expect, and then based on the result of that you update your numbers. So it's kind of like a rolling process where those --

MR. COTA: That all makes sense to me and that's where I assumed we were going. Is that the general understanding? I'm sorry.

MR. WESTMAN: I would certainly recommend that.

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MR. WEISS: This is Thomas Weiss if I may.

HEARING OFFICER KNAUER: Yes please go ahead.

MR. WEISS: As an engineer whose done some of these types of projects in individual locations I have been under the impression that the installer would make estimates for each individual installation and it would be that a heat pump will create a certain -- use a certain amount of electricity and a certain amount of whatever. Other fuels are being used in the house to get the delta. So I am thinking that it's going to be a more individually project location specific basis for the credits that are earned rather than some kind of a broad general this is what a heat pump does particularly because we are working on buildings of all categories. We're working on small houses, big houses, commercial buildings, factories. comment.

HEARING OFFICER KNAUER: Thank you, Mr. Weiss. Brian Woods, I see your hand is up and folks I don't want to discount the importance of this, this is a very important discussion and you know fundamental element of the program, but again today the workshop is focused on process for setting the pace and the trajectory. So we've got limited time today so to the extent that we can let's avoid going off into other equally important, very interesting topics. Let's save those for when those come up in the schedule. So with that go ahead, Brian.

MR. WOODS: I can yield to refocus the discussion. So let's move on.

HEARING OFFICER KNAUER: Okay. Great.

Thank you. TJ, the floor is yours to take us to the next step of your proposed process.

MR. POOR: Okay. So we have now the value of clean heat credits, the value of measures that installed measures receive a certain amount of clean heat credits on a life cycle basis. So now we need to estimate a measure mix like the combination of different types of clean heat credits that obligated parties might pursue that would be sufficient to meet the 2030 targets. Again 2030 is the first -- the real requirement in the GWSA, the

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near term one anyway -- well the second near term one, and so we need to do that in order to understand how clean heat measures that create those clean heat credits impact the progress towards emissions reduction requirements as measured by the greenhouse gas inventory, and so this is going to be something that's, you know, a challenge to predict, and the only thing we know about the prediction is that it's going to be wrong that -- but it would actually, you know, predicted measure mix will allow the Commission to then estimate the actual emissions reductions from each clean heat credit as accounted for by the inventory. Remember there are inventories life cycle -- I'm sorry. Clean heat credit values or life cycle inventory is just I'm going to use the word burner tip for lack of a better word, but kind of at the site emissions. The Department's potential study, which is due September 1, will offer kind of a first example of what's achievable given assumed measure characterizations, clean heat credit values, and in terms of a measure mix based on assumed policy and program constraints, the next Technical Advisory Group meeting will review the initial assumptions proposed by the methodology proposed by our consultant, and that can give kind of a basis for

in?

saying okay here's how we translate clean heat credit values in life cycle terms and how many of those clean heat credits will be necessary to actually meet the greenhouse gas inventory reduction requirements.

I'm going to carry on for a little bit because it's listed as a next step but it's really part of the same thing is that we need -- as we do that need to ensure that policy goals and requirements of the clean heat standard of the affordable clean heat act are reflected. The low moderate income requirements, the requirements associated with installed measures versus fuel related measures need to be reflected, and then I'll also note that the Technical Advisory Group will need to play a significant role in the shaping of the measure mix to help evaluate those policy priorities.

HEARING OFFICER KNAUER: TJ, can I jump

MR. POOR: Let me say one more thing because it's part of the same thought and then I can stop I think is that then we can -- using that measure mix as basis and then the policy overlay that's when the Commission needs -- can set a reasonable trajectory for the emission reductions, reasonable trajectory of necessary clean heat credits

sector wide, and so that could say hey we want to do more in the first year and less in the later years or vice versa, but that really can help inform that trajectory.

HEARING OFFICER KNAUER: Thank you. So

I was trying to think about why do we need to know a
hypothetical measure mix and so I'm going to tell you
what I'm understanding and you can correct me if I'm
wrong. Basically the phase one of the proposal
essentially gets us a theoretical mathematical type
trajectory, and then if we're trying to put some
constraints on that theoretical trajectory to reflect
the policy requirements of the law as well as what's
actually kind of a program achievable amount, is that
what the measure mix does is essentially, you know,
says this is what is likely to be achievable given
real world scenarios?

MR. POOR: I think that's part of it.

That's a primary function of it, but the other thing it does is it helps -- well one it helps frame up any work that may be necessary for a DDA, default delivery agent, but if we just put the policy constraints on the trajectory, we're not going to necessarily know if we meet or if we're headed to actually meeting the GWSA requirements if we don't

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have kind of some assumed measure mix, and because you know meeting all of the requirements except for -- except for those that are -- with those installed measure requirements required by the affordable heat act if we meet all of those a hundred percent of the remainder with biofuels, whatever is eligible, well we could actually meet the targets that way, but then there's over time some restrictions on carbon intensities of those fuels and we might actually not put ourselves on a trajectory to meet those 2030 targets, and so I think it's important to ensure that we're on the correct trajectory and then to translate because there's a different -- you know if we're -if we assume those requirements are all met by biofuels, then that has -- you know that's a different number of clean heat credits and a different number of actual emissions reductions than might be achieved by half biofuels and half installed measures, and so we really need -- and we're still trying to set the obligation and we need to know what the actual impact is for the inventory in order to set each individual fuel provider's obligation. don't feel like I explained that very well, but hopefully Ken's question or somebody's questions can help illuminate.

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MR. JONES: I hope so too. I certainly agree with this approach and it's a necessary approach. I guess I just want to throw out that the need for it to be incredibly precise and accurate in the early stages of implementation in the clean heat standard process I don't want to put too much of an emphasis on that because as you know one of the great variables that I don't believe that the capacity work can accomplish is just as you identified to what extent are the fuel oil dealers going to be able to access renewable diesel, renewable heating oil, and that is going to have a very significant impact on the measure mix which then has an impact on the resulting difference between an inventory calculation and a life cycle calculation, but I don't want that to paralyze us. That we will learn over time how the fuel dealers respond to their requirement, part they have to provide a planning document to give us a heads up, but also there's kind of actual experience of moving forward is going to give us that, and the other thing I want to note in there is we do -- and I'm sure that the consultants are working on this, but we do have significant experience on measure mix. We know how many heat pumps have been installed the last few years. We know how much weatherization has

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been accomplished, and that is probably a very good starting point for the early years, and we may identify yeah we're going to need to accelerate, okay which ones can be accelerated more clearly, but again my comment here -- because I have seen it in a lot of the -- a lot of the submissions is we have to wait until September 1 for an awful lot of calculation. and I want to push back on that. I really want to get the understanding of magnitude of credits going before that because it will help the fuel oil dealers recognize what their responsibility is. I hear what Matt says he wants an 18-month lead time. Well in order to give them that we need to get started giving at least those early approximations and it may need to happen before we get some of the real detailed analysis provided by September 1.

MR. POOR: Yeah just real quickly I want to just appreciate that what you're saying about we are going to have a precise value and we're going to have a value that is not accurate, and I definitely go back and forth between agonizing over how -- how good this kind of translation is going to be, and so I appreciate that like we need to get started and get moving and set some kind of -- give some early estimates. I'm not -- I don't know how much earlier

than September 1 we'll be able to do, but I hear you there.

The other thing that worries me about that is we do have 2030 requirements and to the extent we get it wrong then what we have is a -- one potential outcome is too low of a trajectory in '26, '27, 2028, and then we realize that we're not going to meet our 2030 requirements as we have to jack up that trajectory for the last year and that comes at significant cost, or we just don't meet the requirements and that latter one is not an option that I want to plan for, and so we have -- there are some offerings in the legislation although they are limited, but I want to avoid this like super like high cost 2028, 2029 or high obligation. I don't even know if it will be high cost. That's part of the reason why I agonize over it.

HEARING OFFICER KNAUER: Thank you, TJ.

I'm going to set up the queue here. I see Thomas

Weiss has unmuted, then we'll go to Dylan then Matt

Cota.

MR. WEISS: Thank you. This is Thomas
Weiss. I had -- my original thoughts on this were to
include something like the Department's measure mix
and I found that they were unnecessary the way I set

1 up my proposal. In my proposal the greenhouse gas 2 inventory is based on what I have been calling realtime emissions, and what I did was or proposed is that we go from the realtime emissions to the life cycle emissions of the existing mix. So we basically 6 convert the inventory into life cycle emissions and we base our trajectory on the life cycle emissions

and then we don't need a measure mix.

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What happens is we know from the measure mix how much we have to reduce it in order to meet the goals. Obligated parties have fuel value obligations and it has been up to them to come up with credits or projects that will create the credits that they need, and if there is then a difference that shows up as different information comes in as required by the Act, that is what the triennial updates are about or the necessary on a faster term could cause adjustments.

One thing I don't know goes back to what Matt Cota was talking about are the triennial -- if the first triennial update comes in year three, is it allowed to change years 4 through 10. That's what I don't know about how this is set up. Is that something that's in statute or is that something that we're trying to determine? So that's the end of my

comment.

HEARING OFFICER KNAUER: Thank you, Mr. Weiss. I would say to answer your last question that is something that we're trying to determine as part of this rulemaking process. Now we'll go to Dylan.

MR. GIAMBATISTA: Yes thank you. With regard to the measure mix as our comments reflected we do think that the logical part of the sequence in this stage of development will provide additional data that we can reference, but in terms of implementation we view the actual activities that can be done to achieve compliance as set forth in the Act so provided that the type of activity meets the requirements of the emission schedule, the carbon intensity score, the intent of the law would appear to be to allow flexibility for obligated parties, and it may be then that elements of the measure mix are those that are chosen as compliance pathways, but I think one thing that we would want to ensure intent on is that the measure mix is a piece of data and information in forming some of the projections, but I want to ensure our understanding that the measure mix is not something obligated parties would be compelled to comply with. We're complying with reductions of greenhouse gas emissions. Do I have that right?

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MR. COTA: I think so.

MR. POOR: Yeah I'll just respond quickly. Sorry to shortcut you there, Brian. Yeah in our proposal that you would still be -- you would not be required to meet what this measure mix is, but it is -- the measure mix is really used to help set the trajectory -- the obligations for each obligated entity and then you need to go out and meet those as cost effectively as possible or meet those obligations. You just may need more clean heat credits depending on how -- to meet your obligation and that's like the balance in the iterative process.

HEARING OFFICER KNAUER: Matt, did you have anything else? Your mike has been on for a little while?

MR. COTA: I just wanted to say I absolutely agree with what Ken Jones is saying. We were hovering. All the various entities different shapes and sizes and commodities that either provide clean heat services, installed measures, or obligated parties that will have to pay the -- or obligated parties that want to earn their own credits, until we have a value associated with those credits and a cost for not obtaining those credits it's really hard for us to do anything other than calculate some nebulous

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value for those early actions, and in order to change that marketplace Ken is absolutely right we have to know what the cost is for not producing our own credits and we have to know the value of creating our own credits whether it's energy product or service or piece of equipment.

Not having that in advance time -- this is where I disagree with Ken -- which is not having that I think compels, again we don't have this choice, but I would encourage the Legislature to delay implementation if we don't have this in due course. Waiting until September to make significant investments on whether or not you put a bulk storage facility that can accommodate biodiesel or whether you retrain your staff all these decisions are waiting on these values; the cost of credits, the value of those credits, and the obligation that each entity has and pricing. I mean we're going to -- 18 months from now you can buy a price for a gallon of heating oil, you can buy it and sell it 18 months from today. So we would like to know ASAP, but if we don't get that, it's going to be really hard for us to be able to move forward without a delay.

HEARING OFFICER KNAUER: Thank you.

Brian and then Dave.

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MR. WOODS: Thank you, Tom. I'll try to be brief. I want to share at least my perspective on the measure mix issue. Because of the way the law is written it's -- you know the emissions from the fuel that's avoided minus the emissions from the fuel that's used instead for each clean heat measure, I don't see a way to be able to -- the -- the credits for any clean heat measure aren't just related to their different depending upon what they are replacing. So, for example, weatherization project the fuel that's avoided is fuel that you don't use because you have a tighter building envelope and then emissions from the fuel that you use well you're not using any fuel instead versus in a heat pump situation that heat pump load might be displacing fuel oil or it might be displacing propane. So those numbers are all going to be different for every clean heat measure.

I understand Mr. Westman's proposal to try and make that a little more uniform and simpler, but the way the law is written it's not in order to be able -- to be able to do the calculation to say this measure results in this many reductions and you need to do that in order to be able to get to the end of the calculation and say and this will result in

this change in gross emissions as measured by the inventory.

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So I don't think it's possible to go to work from the inventory and go backwards to life cycle because again you're going to need to know what each measure is earning and what it's actually replacing. So I think it's a critical point of program design and I think there can be a table or assumptions about what a clean heat measure is, what it's displacing that are defaults. The idea of custom credit for larger projects or more complex projects I think is worth exploring, but I think it's unavoidable to be able to get on this trajectory and to be able to say we're going to be -- you know we're apportioning credits that are -- get us on this RCI sector's proportional contribution to the 2030 targets. Doing that without assuming what the mix of measures is going to be I haven't been able to figure out how to do that.

HEARING OFFICER KNAUER: Thank you, Brian. Dave, go ahead.

MR. WESTMAN: Yeah appreciate this conversation. It's definitely helping our team understand what the Department and sounds like ANR is in agreement on it. I guess from our perspective the

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comment TJ said that in effect this methodology would essentially assign credit obligations to obligated parties but that they -- but the key word that I heard and that I'm reacting to is, as an existing program implementer at Efficiency Vermont, is that the obligated party might have to seek out more credits if they change their measure mix from what is assumed they would be implementing when those credits were allocated. I would just kind of -- I would just go out on a limb and say that kind of result is fairly unworkable from my perspective. I think the obligated party would need to have a firm number of credits that they retire and they know that they have met their obligation and regardless of the measure mix, and so from my perspective you know I do want to go back to my initial point because I read the statute I think differently than how the Department and ANR are presenting it here. I read the statute as saying clean heat credits are awarded based on the amount of life cycle emissions reduced, not clean heat credits are somehow -- well I guess I don't want -- I don't want to mischaracterize how the Department or ANR is saying it so I'll say clearly what I think the legislation is saying which is I believe it says clean heat credits are awarded for projects completed

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based on their life cycle emission reductions. To me that does not statutorily prevent one credit equaling one inventory ton of reductions. It means that you have to create an accounting system where individual projects have greater or lesser amounts of GHG impacts and therefore greater or lesser amounts of credits awarded. That's something we do everyday with keeping track of efficiency savings and fuel savings based on fuel type, measure installed. It's a complex system, but it's a system that works today. So I'm not overly intimidated by the idea of having different credits awarded based on a project characteristics. We do that all the time. I'm more concerned with this fundamental premise that obligated party might have to go out and get more credits because they somehow changed their measure mix. That doesn't seem like a workable solution from my end, and I guess I'll finish by saying if my statutory interpretation is different from the Department and ANR, then I would really appreciate a fine tooth comb understanding of why that section where clean heat credits are sort of defined as a statutory -- defined characteristics what is leading the Department to that sort of interpretation because I don't see it that way.

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MR. POOR: Yeah so I want to be clear we're not proposing anything that would set an obligation and then have, you know, on the back end obligated parties having to go back and get more credits to meet an obligation. It's really the clean heat credit value is awarded on life cycle emissions reductions and we don't know how many life cycle emissions reductions are necessary to meet the GHG inventory reductions unless we create a measure mix, and so I actually think what you ended up saying was really consistent with what we were saying in terms of the translation to a greenhouse gas inventory. It may have just been in the reverse perhaps with a -you were talking about fractional credits, et cetera, and I actually think they are fairly consistent and they are still just -- either way there needs to be a translation between life cycle and inventory.

HEARING OFFICER KNAUER: Any more discussion? Dave, are you in a good position? Are you comfortable now that you heard from TJ?

MR. WESTMAN: Yeah I guess if I could -if I could sum up then where I would think that
translation occurs is that the translation occurs in
the TRM which is technical resource manual that
characterizes how much -- how many credits get formed

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under what situation for specific clean heat measures. That's where I would suggest that if we keep it simple for the sake of the obligated party to say one credit equals one ton, then TRM would essentially be, you know, and based on that translation for each measure. So that's -- that's I guess what I'm suggesting is that you can still set that credit, but a measure with less of an impact on life cycle emissions, and I mean that in like the -a measure that has higher life cycle emissions would essentially get a lower credit value and a measure that has a greater reduction in life cycle emissions would have a higher credit value. Some type of translation there so that the accounting all adds up at the statewide level and at the obligated party level, but that the measure mix becomes the sort of defining characteristic of what measures sort of have the greater impact and I don't have the technical details to talk any further about that.

MR. POOR: Yeah no I agree the clean heat credit value on a life cycle basis should be part of the TRM for each measure. We're talking about how we set the obligations for each obligated entity and those obligations need to add up to greenhouse gas inventory amounts, and so that's where

the measure mix comes in is like how do we set those obligations. We need to assume a measure mix so we know how much -- how many clean heat credit values are necessary to actually get to the greenhouse gas inventory. So --

MR. WESTMAN: That's where we're not quite seeing eye to eye. I think if you've got a one-for-one credit per ton, then you don't need to --you don't need to know what your measure mix looks like at all.

MR. WOODS: That's right, but they aren't one to one. The gross emissions reductions are not the same as the life cycle emissions reductions. That's where you can't do the arithmetic unless you know what the measure mix is going to be.

MR. WESTMAN: Understood. We agree on that which is why I'm suggesting that in the -- if in the TRM a measure with higher life cycle emissions should get a smaller credit allowance and that's where I'm not understanding how -- understanding how that was intended to actually be interpreted quite honestly by the legislation, and I would appreciate some kind of interpretation of how life cycle emissions are supposed to line up to this.

MR. WOODS: Well I'm not the lawyer and

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I didn't write the law. I guess I'm willing to say this is how I understand it with that disclaimer. I'll repeat what I said before that credits are based on the life cycle emissions of the fuel that's displaced minus the life cycle emissions of the fuel that's used instead and that's the same for fuels and it's also for measures as well. So the way I read that is what I said before every measure, if you install a heat pump, the credit that you get with it replaces fuel oil is different than the credit you will get if it replaces propane, and that's fine and I agree with you that the TRM should have a list of here's the clean heat measures, here's the things that they are replacing, I'm not intimidated by that at all. I think that's eminently doable, but I think where we're kind of talking past each other is in order to establish for each either the trajectory or as TJ was talking about the 2030 requirement for the entire market you need to know -- you need to assume here's the mix of measures that are going to be deployed, here's what they are going to replace, and they will result in this life cycle emissions, and then if I know what the measure mix is, if I can say oh okay this -- we got you know 10,000 heat pumps and they replaced all fuel oil and they replaced, you

1 know, 60 percent of the fuel load and I know what the 2 emissions are for the electricity the way the inventory does it, and I know what emissions from 3 fuel oil ar, the way the inventory does it, then I 5 can do the math and then I can establish the entire 6 credit requirement that meets the statutory 7 requirement to say that the credit requirement needs 8 to get you on the path to meet the GWSA standard for 9 the portion that's RCI. I know that gets very 10 complicated so that's the way I see it. MR. WESTMAN: Thank you for spelling 11 12

that out. I appreciate it.

MR. WOODS: Did it help?

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MR. WESTMAN: I think it helped.

Whether or not it helps us actually write this rule I'm less certain of.

MR. COTA: Tom, if it's all right just quickly just to double down on Brian's point which is as the heating contractors are installing heat pumps, not just in heating oil and propane homes but in homes that use wood, so what would that measurement be? Would it be different than the heating oil?

MR. WOODS: Conceptually, Matt, of course because the inventory emissions for biomass aren't in that sector. They show up elsewhere. They are in the agriculture, land use sector. So yeah that's an entirely -- the emissions from the fuel you're replacing, if the fuel you're replacing is biomass, is zero.

MR. COTA: And it's not insignificant. We've got 40,000 homes that use biomass.

HEARING OFFICER KNAUER: All right folks. We've been going for almost two hours so we're going to take a break now until noon so that's 8 minutes from now. If there are any final comments to wrap up this topic, at that time we'll do that. Otherwise, we will proceed with additional questions. So see you in eight minutes.

(Recess.)

HEARING OFFICER KNAUER: So folks we had a robust discussion about what role the measure mix will play in setting the trajectory or the pace for the clean heat standard program and the setting the ten years requirement outlook for obligated parties. So take this as a request. When folks file their reply comments make sure that you include some commentary on what role you think the measure mix will play in that -- in setting the trajectory.

So I'm going to move us along. I imagine we've got one more hour and a bit of material

to get through. So I'm going to continue with my 2 questions on the Department's filing, and moving right along to the topic of the good cause temporary 3 adjustments the Department suggested that good cause 5 modification should occur at least 120 days before 6 the determination of default delivery agent credit 7 costs. So first want to double-check with the 8 Department that that's your position or that's part

of your straw proposal? This is on page 11.

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MR. POOR: Yeah I think this is part of the -- you know just the idea of giving as much advance notice as necessary in order to allow impacts -- any impacts to trickle down to the rest of the process including what might turn into a DDA obligation or not.

HEARING OFFICER KNAUER: Okay. Yeah so I think the practical effect of that is we are -- it might mean that the modification would need to be made at least 240 days before an obligated party needs to present its election to the Commission on how it intends to meet its annual obligation because I think once the DDA credit cost is set I believe the law mandates that an obligated party would have 120 days to inform the Commission how it intends to proceed, whether that is with the DDA or procuring

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its own clean heat credits. So that's just kind of the practical effect, and I guess bigger picture I think we will need to kind of set out either in annual or triennial kind of process map that shows when all these decision points get made and, Ken Jones, looks like you have your hand up.

MR. JONES: Yeah to me there are I think three rather distinct elements to this. One is whether the general trajectory has been appropriate, and as we gain experience behind it and say oh we're -- it's noted in the Public Service Department submittal it may be we didn't set it aggressively enough therefore you modify it up or we set it too aggressively and modify it down, that's one, and then the second and it was cited in a couple of the comments leading up to this workshop is individual obligated party specific. If some condition is met by a specific obligated party that affects their ability to meet their annual requirement, a process for the Public Utility Commission to address that, but I think there's a third especially it's highlighted by you saying a 240 day period before the final plan by the obligated party and that's in year. When we get near the end of the year and through especially in these first couple years of obligation

if the target is set at such a level that the
available number of credits is more challenging to
accomplish, the market price is going to go through
the roof, and I think that the Legislature intended
for there to be a mechanism to avoid that short term
probably near the end of an obligation year relief
value. So again I think there are three different
pieces and I'm kind of hoping that the rules address

all three.

HEARING OFFICER KNAUER: Thank you.

Anyone else in the workshop today have any other questions on the Department's comments regarding the good cause temporary adjustments? Looks like that's a no. I do have -- my next question this is from the Department's comments, but there's a similar comment in Efficiency Vermont's filing. The Department stated that it is unlikely that the TAG itself will originate significant work on its own and Efficiency Vermont stated that the TAG is most efficiently used to react and respond to work versus being the creator of technical work.

I just wanted to ask the Department and Efficiency Vermont to each say a bit more about that. You know when I look at Section 8128(a), you know, that section details many technical duties that are

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assigned to the TAG as deliverables. So just trying to square your comments with what I -- with my read of the statute.

MR. WESTMAN: TJ, do you mind if I go first? Yeah thanks, Tom. Great question. Probably could have explained this a little bit more clearly, but I think we're in a -- I think we're in -- in sort of a -- like a no huddle type offensive situation here where we're just trying to sort of see each play as it's showing up on the field, and that sort of you know making -- making audibles as they come, and I think that's not desirable for the short term, but certainly isn't desirable for the long term, and so I do see the TAG's capacity to work through a lot of the sort of launch issues as being pretty limited just because there's so much to go through and it takes time and effort to develop these matters, and longer term once the rule is put into place I do see the TAG as being more -- far more able to you know develop these technical analyses on its own.

So I think our comments were probably more along the lines of the next, you know, 12 to 18 months. The TAG has a lot on its plate. It would be better if they were being served those plays for review and then I would expect that once the rule

goes into place and things start sort of settling down that the TAG can sort of take on a more self sufficient role.

HEARING OFFICER KNAUER: Thank you. TJ.

know, in the context of things like credit ownership I'll use as an example that is something that the PUC is taking broad comments on and it's also listed as one of the things the TAG should think about, and so the way I think about that is there are the policy components of credit ownership that are the subject of and some technical components that are subject to responding, you know, all parties who want to respond to the PUC's solicitation for comments to comment on and I don't think the TAG was intended to comment on and, you know, develop original kind of organizational comments as a TAG on policy issues. It's called a Technical Advisory Group for a reason.

So I think that, you know, the way we think about it is in this credit ownership example for -- issue, for example, that the PUC would take the comments from all parties in the broader rule proceeding and say okay here is what our result is or TAG here are the comments, what are the technical issues associated with these comments, and that in

that way the TAG can then provide constructive feedback as at a minimum venue for discussing the technical issues and maybe the TAG does you know create a comment on technical issues, but I don't think it's appropriate and we don't think it's appropriate for the TAG to be weighing in on policy issues. That is not an obligation that has been assigned to the TAG and it doesn't have any -- and I actually don't think it will be easy for the TAG to do it given the makeup as a lot of the entities that also comment on the policy issues, and so narrowing the scope is really -- and it's not a narrow scope, don't get me wrong, but I'm kind of drawing the scope I guess is really important.

HEARING OFFICER KNAUER: Thank you for that clarification, TJ, and I'm going to ask a followup. Do you believe that it would be -- within -- that the TAG will be originating significant technical work on its own?

MR. POOR: Not without resources. You know I suppose that's a possibility if there's some volunteers, but when I think about how the TAG's work in the energy efficiency world it is the VEIC actually runs the TAG and that is part of -- I think it's part of the order of appointment structure, but

they originate measure characterization proposals and the Department of Public Service responds and works on it. Anybody is invited to participate. Not a whole lot of people do and -- beyond the energy efficiency utilities.

In the tier three space where there's a TAG the utilities have hired the VEIC to develop measure characterizations. They have that resource and then they discuss them and bring them forward to the Commission for approval. Without a -- without resources I don't think that's possible. You know the way I see it with measure characterizations I think that's the piece where they could eventually do something if they have resources. Right now the PUC has a contractor that can support that and so -- but the contractor is developing originating work and the TAG is providing advice.

HEARING OFFICER KNAUER: Thank you, TJ.

I don't want to get us on a tangent about the -about this. It was just comments that caught my
attention when I was reviewing all this yesterday and
it's important that we understand what TAG is
delivering and capable of producing and not, but
again that's not the focus of our workshop today. So
we can continue to have that discussion.

So mercifully those are all my questions on the Department's filing at this time so I'm going to move along. Next we had some questions based on Vermont Gas's filing and, Erin, if you're here did you have some questions?

MS. HICKS-TIBBLES: It will take me just a minute to get organized again. If you have one, go ahead.

HEARING OFFICER KNAUER: All right. So
I'll jump right in. On page 2 answer 2 of Vermont
Gas's filing Vermont Gas stated that the process
should be structured with consistent procedures,
process would benefit from use of similar
methodological practices, et cetera. I'm not going
to read the entire filing. I'm wondering -- point
taken. Does Vermont Gas have a suggestion as to what
those procedures and/or methodological practices
should be?

MR. GIAMBATISTA: Thank you for the question. I think in general our key point here is we know it's a review process. It's going to take place every three years and so as a market participant working in this space we want to ensure that all of the folks trying to comply with the Act have some sense of the process that will be set out.

You know there might be existing procedures that the PUC uses for certain types of cases here that might be applicable. We would defer to your judgment around that. Just consulting my notes for a moment.

One of the other things that I do want to call out here is that a review process may or may not require adjustments and so we have outlined that in our comments as well. So the procedures that the PUC would use may look differently based upon actual outcomes in the marketplace. Something to consider.

HEARING OFFICER KNAUER: All right.

Thank you. Yeah so I'll reflect back to you and to everyone yeah we're trying to create a rule that provides regulatory certainty and predictability as to what those processes and what those methods would be. So I think Vermont Gas has, you know, rightly identified this is something that will help obligated parties to know how to navigate these waters. So in your reply comments if you have some specific suggestions, we will gladly take them. Erin, do you want to go ahead?

MS. HICKS-TIBBLES: Yeah kind of related comment and VGS mentioned that the uniform percentage reduction applied to obligated parties disincentivizes over performance and I was wondering

if you could, you know, explain a little bit more and

I was wondering if other people agree with these

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statements.

MR. GIAMBATISTA: Thank you for the question here. I think that as we seek to understand the components of information and assumptions that will go into setting these requirements I think transparency is important for all of us in this world that we're entering into. In general we don't want to see a system where we are only measuring to meet the requirements in a compliance period because we're uncertain about what the future may hold and that may provide a disincentive to obligated parties to do additional activities. So to the extent that there are factors and assumptions being made, whether it be the measure mix or other things that we've discussed, we want to ensure that we have the opportunity to comply with what is most cost effective that will provide a benefit to our customers but also to the greater goals of the Act, and so that is what was intended in this part of our comments.

HEARING OFFICER KNAUER: I see that Ken Jones raised his hand.

MR. JONES: Yeah this is back to you,

Dylan. In terms of accomplishing beyond the

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requirement is it your envisioning and perhaps others on this call that the market may address that, that you can market additional credits to other obligated parties or to the DDA so that yeah you might be able to have a program in place that's wildly successful and would continue to pursue it because the market will accept your benefits and compensate you?

MR. GIAMBATISTA: Thank you. Just to outline our thinking a little more on this section we think of this as looking ahead into the future. we make investments to comply with the Act and achieve our obligation in a given compliance period we want to be sure that the investment we're making results in lowering our obligation in the future, and depending on how the sector share is performing based upon the performance of installed measures and delivered fuels, we want some certainty that the investment that we're making is cost effective, and depending on how this process would work out and depending on how that triennial update impacted the ten year projection it may alter some of the investments that we're making. So just something to consider that we're weighing and we've been thinking about this since enactment.

HEARING OFFICER KNAUER: Erin, do you

1	have additional questions?						
2	MS. HICKS-TIBBLES: I think not on this						
3	commentary.						
4	HEARING OFFICER KNAUER: Other questions						
5	for Vermont Gas or based on Vermont Gas's filing?						
6	MS. HICKS-TIBBLES: No.						
7	HEARING OFFICER KNAUER: All right. I						
8	just have a similar request to my earlier request.						
9	Page 3 answer 3 of Vermont Gas's filing the company						
10	was looking for clear guidance about how the						
11	Commission would interpret the portion of the law						
12	related to good cause adjustments and noting that						
13	Vermont Gas would like the proposed rules to include						
14	sets of procedures, et cetera. So again if anyone						
15	has specifics that they would seek to have included						
16	in a rule, please, you know, feel free to state them						
17	now, but importantly put them on paper when you file						
18	your reply comments, and I guess with that open the						
19	floor does anyone else have any comments or questions						
20	based on Vermont Gas's filing and I see that Ken						
21	does.						
22	MR. JONES: No.						

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HEARING OFFICER KNAUER: Anyone else? All right. Thank you. So I did not have any questions regarding the Clean Fuels Alliance filing,

but opening the floor to all workshop participants in case anyone else had questions based on that filing.

I'm going to say that's a sufficient pause and folks do not have questions.

Turning now to Matt's filing for the

Vermont Fuel Dealers so Matt prefaced this multiple

times today about looking to know both the clean heat

credit requirements and Matt used the term

alternative compliance payment, but I think maybe

you're talking about the DDA cost, but I guess the

two are linked. Looking to understand those things

at least 18 months in advance of what I -- you know a

compliance year. So a general question to all

workshop participants is do we believe it's possible

to provide that information to obligated parties on

that schedule? Ken Jones.

MR. JONES: I mean yes if we -- very much hinges on when the obligation starts. So if the obligation starts in 2027, then yeah we can get the information by the middle of 2025, but you know as some of you may have heard I believe that we can start to prime the pump to provide information earlier than that and it's going to get -- my kind of next comment about the shape of the trajectory this is a recognition that establishing some of the early

requirements is going to initiate market action and, I'm sorry, I don't know how better to project measure uptake and the ultimate reduction in the use of fossil fuels until we get the market going, and so again when we start talking about the shape it may mean we set obligations at an early time maybe not very high to see how the market reacts, but anyways but the answer is yeah we will, and if the specific three year product from the Public Utility Commission it depends on what year the first of those three years is, and as I say if it's established in 2027 which is definitely out there, but that means we can do interim work for maybe even 2025 and 2026 to allow the market to start to do its work.

HEARING OFFICER KNAUER: Thank you and then as I'm thinking about this being an ongoing program with the triennial review process going back to Dylan's comment maybe not an update maybe an update who knows depends on what that review produces, and if Matt's seeking to know 18 months in advance of a compliance year, you know, it begs the question of how soon does that triennial review process need to take place? It seems like we would need to begin the process, you know, maybe three years in advance especially given, you know, a few of

the other numbers that we've been talking about today like the 120 or 240 day election process. So I guess those are my -- also go to my earlier comment that is at some point we will need to draw kind of a process map that looks at what's happening on an annual and triennial basis.

Any other comments on the fuel dealers suggestion or request that we let them know 18 months in advance what the requirement amount is and the DDA cost would be? TJ.

MR. POOR: I guess I just have a question to better understand that. So -- and I just want to confirm my understanding. So fuel dealers purchase their fuel and then they need to -- they need to offer like the fixed price option like the prebuys basically to their customers, right, and they can't change that -- they can't change that price and so what you're saying is that's why we need to know -- that's why you need to know well in advance. Is that -- is that the gist of it, Matt?

MR. COTA: That is the gist of it, but there's a key element here which I think it's -- it's maybe you all know, but let's assume someone here on this call doesn't. The delivered heating fuels industry is fundamentally differently than a

regulated utility like Vermont Gas or electric power company in that we can't make up for rates for past issues. So if there's a storm and all the lines are down and Green Mountain Power has to spend all of this money rebuilding our electrical infrastructure, that can be recouped in rates. We have no ability to recoup costs that come in the future. It just doesn't happen because they can switch companies and our rates aren't regulated. So if you are offering a prebuy program, if you are offering a fixed price, a guaranteed price program, Vermont law is clear within 7 days of offering such a program you must acquire 75 percent of those gallons in the form of a guaranteed price contract with your wholesale supplier or some other hedging mechanism. That's been on the books since 2006 in order to offer those contracts to customers prebuys or guaranteed price programs which are typically offered in April and go on for the next six months depending on the type of people. You have to acquire those gallons now. So we're getting legitimate calls from consumers, from fuel dealers saying what do we do here. Is there going to be a credit fee attached to the gallons that we deliver in March of next year and here it is in February, and I can only say I don't know. We don't have any clear

direction. If we had some certainty about when that fee could be applied and how much it was, well then you could offer these programs, but to not know that offering these programs may be a fast track to bankruptcy and woe is us. There are real people that depend on these products.

MR. POOR: So I understand the regulatory construct and the risks. I'm really just focused on the timing which is what I don't understand. So you said April. I was thinking July, get the prebuy notice from my dealer in July and so it's probably a range, right. So in my mind that means that the fuel dealer given the law has purchased the fuel in let's say June. So they purchased the fuel in June, offer the prebuy in July for that upcoming heating season.

So if you knew by May what the credit price is for the following year, you could include that credit price in the prebuy, and so in my mind it's like eight months and I feel like I imagine I'm missing something here like you need to know in May before the calendar year that starts before in my timeline here as opposed to 18 months before. So what am I missing.

MR. COTA: What you're missing is the

opportunity that is realized by a smaller subset but large users in which they can prebuy. You can get a futures contract with an upstream supplier or essentially a paper contract 18 months in advance as a way to smooth out any volatility in the market. So yes for the average consumer who buys 700 gallons of heating oil their offer comes out in May or June and then the fuel gets delivered throughout the next heating season, not the calendar year but the heating season, but that's not how all of it is purchased.

MR. POOR: Okay.

MR. COTA: And fuel dealers who are able to enter a paper contract for 18 months for oil and propane have the ability to ensure a stable price for their consumers.

MR. POOR: Right and so are those --

MR. COTA: Not having that ability means we are not subject to the market -- the whims of the market.

MR. POOR: Right, and so my question is could they just buy that -- buy that fuel 18 months in advance and then when they offer -- what you're saying I guess they are offering that to the end user as well 18 months in advance. Like the end user can have a 18 month prebuy?

1		MR.	COTA:	That's	atypical,	but	it	is
2	possible.							

MR. POOR: Okay and so in that case I definitely see. I was thinking because -- so what percentage, if it's atypical, what percentage are we talking about of prebuys I guess?

MR. COTA: Well we're talking about large users and that's not the data that we have or can collect. I mean it's all survey data, but we do have it.

MR. POOR: So sorry to explore this like live here, maybe I should have a conversation with you on the side, but if -- I don't know. I imagine maybe somebody else doesn't know to your point earlier, but so if they were to -- would a possible solution be you offer this price and then you would have to say, you know, this may change by a penny or two per gallon depending on the ultimate obligation under the clean heat standard, and asking that question I can -- your response is somebody who doesn't offer that will just take that customer and so --

MR. COTA: My response would be the Attorney General's Office which enforces the law, the contracts law, would -- guaranteed price programs

might disagree with that -- might object to us doing that. MR. POOR: That's another issue. Okay. Okay well that's helpful on the timing. I'll spare you anything now and maybe follow up. HEARING OFFICER KNAUER: So Ken Jones raised his hand. MR. JONES: Yeah there is a market solution and whether it's the DDA or another entity can provide credits -- credit prices to the obligated parties for future years, and so if someone -- if a large buyer is going to buy on price based on the fuel and then they will also through the obligated party buy those credits, buy the purchase value of those credits because the market has established this, then the market player will accept the risk of how those credit prices change over time, but you know when this thing gets rolling there can be those market opportunities that arise. MR. POOR: So it's really the price that needs to be 18 months as opposed to the obligation or MR. COTA: Well this is what we're

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trying to establish which is -- which is, is the --

is the alternative compliance payment or payment in

lieu of distributing credits what is the ceiling, 2 what is that price because before any decision is made on offering guaranteed price programs for winter 3 delivery of heating fuels we would need to know that. 5 For most consumers you're right, TJ. Most 6 transactions nine months, ten months in advance, but 7 for some very large transactions they are going to 8 want to know. They are going to want to get a secure 9 price 18 months in advance because that's the way the

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HEARING OFFICER KNAUER: It's an interesting point and I guess the question for folks to ponder is do we design the rule around what Matt has characterized as an atypical situation for the large institutional buyers or do we design for more typical fuel purchase scenario or do we design to accommodate all scenarios. Feel free to discuss or put it in your comments.

market has always been, but that generally -- that

generally is large users, institutional users.

MR. COTA: Well I would just add that the 18 months is the far end, right, but for the people that have prebuys or budgets those are entered into in May and June for the following heating That lasts until the next May or June. 18 months may be atypical. 12 or 11 months is very

common in offering these types of guaranteed price programs. Again for the consumer price stability you could outlaw them, but they saw value in them and that's why they created rules around how we offer them. You would need to know what any taxes and fees are well in advance or any of your cost inputs.

Otherwise you're offering a price which would be, if you don't honor it, then you lose your ability to sell.

MR. POOR: Sorry. Rick, if you want to go first you can.

MR. WESTON: Matt, TJ, Ken, others, quick -- this has been -- I mean this whole workshop has been very interesting and I've been following closely. I've wanted -- a couple issues I would have liked to jump in on, but I think you have all handled them well. One -- just a question and it's a little bit of a riff on Ken's point. Would setting prices even administratively early on for the early action credits go a long way to solving this problem for you, Matt, because they would be available for purchase and then you know would be essentially an adder to the fixed price that you're agreeing to.

MR. COTA: Yes, but here's how my world view may not gibe with others which is we view the

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credits that can be bartered and created by the -that can be purchased by the obligated parties, the heating contractor that they team up with or weatherization team they team up with or can be generated by themselves through the energy products that receive credit under the clean heat standard, we view that as the price that is advantageous to the default delivery agent price. So we see the DDA the ceiling. In other words, you as an obligated entity can achieve -- you can find your own path to reducing greenhouse gas emission either through energy products or services and produce credits at the compliance point or forget all that and just write a check, and so what we see that writing a check based on your prior year obligation as being the ceiling and that would be set by the Public Utility Commission. So that is the most important number not the what am I going to get for -- yes we need to know -- to your point, Rick, we need to know what a gallon of biodiesel versus heat pump, all that, we want to know those prices, but if we know the ceiling then we can work backwards from there and we can appropriately set prices because again you want to keep these companies in business and they can't stay in business if they don't know what their fixed costs

are, and if their fixed cost is this alternative compliance payment, this DDA price, the sooner we know that the better, but I would be remiss if I didn't bring this up which is we're trying to figure out how all this works. We also have the little complication in that this may never take effect because the Legislature still has to approve whatever rule the PUC designs, either has to be signed by the Governor into law or he vetoes it, she vetoes it, has to become law through an override.

So as we determine what that ceiling price is and as we build it into our prices there is also hanging out there the possibility that in effect it won't happen. So the timing of this is so challenging for me to wrap my head around because I want to make sure that if it does happen there aren't individuals that are caught either paying a fee that never takes effect or they never incorporate that into their fixed cost which would hurt the viability of the business because, like I said at the outset, they can't go back to the PUC and ask to recoup their expenses. They just go out of business.

HEARING OFFICER KNAUER: So any other comments or questions related to Matt's filing? Go ahead, Erin.

MS. HICKS-TIBBLES: This is more related to an earlier comment that Matt had than to the filing itself. Matt said he would ideally change the compliance year to also be a heating season. I was just wondering if others agreed or disagreed with that timing?

MR. POOR: I'll just comment I don't know if I agree or disagree. I can see the value of having it be on a heating season. That relationship with how other programs work with the clean heat standard in terms of them being on a calendar year versus the clean heat standard being on a fiscal year I don't know if there's implications related to that, but -- and maybe they should all move to a fiscal year and that would be better, but I just wanted to point that out as it came to mind, but I do think -- and also the greenhouse gas inventory is on a calendar year basis as well. So that has implications.

HEARING OFFICER KNAUER: Thomas Weiss, did you have something you wanted to say? You picked up the phone for a minute.

MR. WEISS: I withdrew whatever comment I would have made.

HEARING OFFICER KNAUER: Okay. Thank

you. Matthew.

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MR. BAKERPOOLE: I just wanted to put Thomas's comments on the radar for folks, the first being the recommendation for having a smooth retirement schedule curve. That's definitely one way to do it. I think that means a steeper starting point. So depending on how many early action credits have actually been banked that may or may not be easier to do than the slightly less steep flat curve, but the second consideration I wanted to mention was Thomas brings up the projected load growth that policy may support. So potentially a hundred thousand new residents in the next 10 to 20 years and I think both the Commission's technical consultants and the Department consultant need to be aware of that. Not that it's going to happen, but just that it's maybe something to be included in an assumption or a model.

HEARING OFFICER KNAUER: Thank you. Ken Jones, your hand is up.

MR. JONES: It is because I want to piggyback on Matthew's last point because Mr. Weiss does have an additional piece there that I think is important. In order to establish the annual credit amount it really -- it needs to be based on what the

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world would be absent the clean heat standard. I know that's very difficult, but we can at least look at the factors that contribute to changes in fossil fuel use that are not covered by clean heat measures, and over time as people replace their boilers and furnaces they typically get greater efficiency. Every time there's a building renovation buildings tend to be a little bit more efficient. So there's that factor which could reduce the sort of baseline moving forward from a baseline year let's say 2022, but then it's countered by what Mr. Weiss suggests. He's just -- this particular policy about adding building units, but the fact is and I've looked at this, you can look at the grand list over the last 20 years, and it's been about an average of a half a percent increase in building stock in Vermont, and then perhaps the technical consultants can look a little bit more about how the characteristics of those units have changed, but those two factors and maybe more I think do need to be considered as a baseline for the out years beyond the start point, and then because you only need credits to accomplish reductions in addition to reductions that would be accomplished outside of the credit system and then dare I say there are several of those activities.

1 One of my favorites is set back thermostats which I don't believe count as a clean heat credit and yet historically they have had a very significant impact on the ability of homeowners, building owners, to reduce their fuel use.

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So anyway in terms of the rule establishment Mr. Weiss does include a step in there for establishing that call it a background number that goes into the future, goes to 2030, and it's the difference between that and what we meet in terms of the target that's going to be the basis for establishing that annual amount.

HEARING OFFICER KNAUER: So yeah we've moved on to Thomas Weiss's filing. I had no comments or questions. Do other workshop participants have any additional comments or questions on Thomas's filing?

MR. WEISS: This is Thomas. If nobody has any questions, I do have one more thing that I would like to get some information on today.

HEARING OFFICER KNAUER: Sure. Go for it.

MR. WEISS: Department of Public Service referred to a life cycle study being done by the Agency of Natural Resources and I would like to

figure out what its status is, who is doing it, where
can I get information on it. Maybe not right now,
but if somebody could follow up on that I would
appreciate it and I believe that's in conjunction
with the greenhouse gas inventory.

HEARING OFFICER KNAUER: Brian, the

HEARING OFFICER KNAUER: Brian, the floor is yours.

MR. WOODS: I was just going to say,
Thomas, why don't you just send me an email and let
me know what you want to know. It's out of the
Climate Action Office and so just get in touch with
me and we'll tell you what it is that you want to
know.

MR. WEISS: Will do.

MR. WOODS: Great. Thank you.

HEARING OFFICER KNAUER: Ben, please go

ahead.

MR. BOLASKI: I saw that Mr. Weiss proposed that the equity advisory group should be continued with an amendment or some sort of subsequent legislation. I just think that's a good point that, you know, we shouldn't assume that equity issues are -- you know we can sort them all out in the initial phase of the Act. I think that is probably a good idea to keep the equity advisor group

around similar to the TAG, and also we were talking about -- I think Erin had a question about the calendar year going to like the heating season. I just want to point out the Weatherization Assistance Program administered by the Office of Economic Opportunity also uses the same calendar, the heating season. So it could make sense to -- we know that, you know, everybody is on a different schedule, but when you have other programs that offer, you know, very important services to low income Vermonters that also track the same schedule it might be a good idea to match up with those. Just wanted to point out --point that out. 

HEARING OFFICER KNAUER: Brian, your hand is up now it's down. Ken, go ahead.

MR. JONES: Yeah one other thing that is going to need to be in the rule, and Ben's comment just triggered that for me, is that this trajectory needs to include a component that addresses low and moderate income. So the number of credits and whether -- you folks know a lot better than I whether it's specific to percentage of credits or some other metric that reflects a certain percentage of low income household benefit and moderate income benefit, but that -- say it could be a part of the

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establishment of specific credit schedule and so that

-- that also needs to be included in the rule about
how to do that, and they gave us a starting point in
terms of just straight percentages, but as we get to
equitable distribution of benefits in later
discussions that's going to influence this part of
the rule as well.

HEARING OFFICER KNAUER: Ben.

MR. BOLASKI: On that same point we know we need to reasonable -- most reasonable extent possible the low and moderate income credits need to be or should be front loaded or if, you know, as many of them as possible I believe is how it's written. I think that's, you know, very important, is going to really affect that curve kind of how steeply that goes down, but you know it's important kind of just what I said with the Weatherization Assistance Program. I really see the Weatherization Assistance Program as one of the primary providers of low and moderate income credits, you know, available to obligated parties. You know I think delivering biofuels to a low income household is one thing, but to have an installed measure in a low income house that is kind of independently done just through an obligated party and low income individual or

household is fairly rare. You know I think the majority of installed measures going in, in low and moderate income homes are done through the Weatherization Assistance Program. So I think coordination and just keeping the -- you know basically the weatherization program in mind as we think about the LMI folks is going to be crucial. So yeah that's -- I just wanted to throw that out there.

HEARING OFFICER KNAUER: Matt, did you have a response?

MR. COTA: Yeah I agree with Ben, but I just want to add some context which is in areas where it's a rental unit that's low and moderate income, particularly as written in the law, that allows the obligated parties to count those that are receiving fuel assistance to be counted as low and moderate income, and where the -- either the tenant nor the heating service or fuel provider has the ability to convince the owner of the property to do an installed measure they do have the ability to encourage the low and moderate income individual to purchase an energy product with lower greenhouse gas emissions. So in those cases low and moderate income Vermonters that are renters that receive LIHEAP that will be counted as toward our obligation of meeting that 16 percent

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load and 16 percent moderate. I think biofuels are going to be how the -- largely those individuals receive or receive the benefit, if there is a benefit of clean heat, they receive the -- how they are essentially able -- an obligated party is able to earn clean heat credits for that community of people, renters. I didn't say that very artfully, but I think you got the gist of that.

MR. BOLASKI: Yeah that's a great point, Matt, and also just kind of a thought. I mean we know that the, you know, I used to work in the low income weatherization program as an energy auditor and I know that there's a major constraint right now with the amount of contractors that are -- basically there's a bottleneck of the number of contractors working in that program for a variety of reasons. Obviously low income households have various issues, you know, that makes installed measures more difficult, for example, or they need a service upgrade or whatever it may be, but you know something that I have been kind of thinking about that could accelerate the LMI credit option or credit production and encourage contractors to or obligated parties to work within those homes is again the weatherization program, you know, there's -- basically if obligated

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parties were able to figure out -- like I guess to summarize if we were to set the DDA price as like the cost of, you know, what a low income weatherization cost, that would be the high end, you know, and work down from there and basically encouraging as many obligated parties to work with the low income individuals as possible would help to accelerate, you know, make sure those folks are taken care of first, make sure that their credit requirements, LMI folks, are taken care of and, you know, basically if the -with the LIHEAP funding if you have an emergency heat or if the weatherization program is in a household and the furnace breaks down calling up an obligated party who they already work with and having them come out and, you know, install like a heat pump, for example, as a full replacement is a pretty easy customer for that obligated party because it's essentially a gimme. You know it's like hey go do this. The weatherization program is paying for that. You know it's just in that scenario basically, you know, what I'm suggesting is that yeah there could be an option there or like basically an avenue for, you know, obligated parties working with the weatherization program, you know, basically incentivising their -- yeah their participation in

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that program would be something that I think everyone needs to think about for the low income community and affecting the curve there of credits. So yeah this all gets into -- I think I might be getting ahead of myself, you know, in terms of, you know, I think about this everyday, but when we get into credit price and stuff it's going to come up. So it's come up a lot just now, but yeah.

HEARING OFFICER KNAUER: Thank you.

Recognizing that we're almost at time we still

haven't talked about the Efficiency Vermont filing,

but I can tell you that I didn't have any questions

based on Efficiency Vermont's filing, but I do want

to open the floor in case others had any questions

for Efficiency Vermont. I take that as a no. So I

have no more questions. We've got one minute left so

I'll take this chance to remind everyone -- Brian

your hand is up.

MR. WOODS: Yeah I'm -- very briefly I want to roll back to just before the break and that discussion we were having regarding the life cycle versus the inventory. I may have misspoken so I want to clarify that the legislation says it's the difference between the emissions of the fuel that's used versus minus the emissions of the life cycle --

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life cycle of the fuel that's not used versus the emissions that are used instead, and Matt asked about wood and how that's counted. So what I think I said was in the life cycle wood would be zero and that's of course not true. Life cycle wood is going to have an emission factor, but in the inventory it's not going to show up in the RCI sector. So it would be zero and that's an important distinction when you're making that translation for a clean heat measure that displaces wood. It potentially would earn credits, but it wouldn't show up in the inventory as an emission reduction, and so that's a really good example of why we need to know what the measure mix is because like how much are we assuming wood is getting displaced by let's say a heat pump and what does that mean for the entire allocation that's required in order to be able to meet the reductions as they are measured by inventory. So thank you for allowing me to clarify.

HEARING OFFICER KNAUER: You highlighted a very interesting thing that will need to be resolved. We're not going to do that at 1:01.

MR. WOODS: Exactly, but thanks.

HEARING OFFICER KNAUER: For sure. So reminder that the deadline for reply comments on the

topic of credit ownership is March 8th, coming right up, and absent any other discussion I want to thank all of the participants for attending today's workshop and providing the Commission with your very valuable input into the process. Appreciate everyone's input here today and with that we are adjourned. (Adjourned at 1:02 p.m.) 

1	<u>C E R T I F I C A T E</u>					
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5	I, JoAnn Q. Carson, do hereby certify that					
6	I recorded by stenographic means the workshop re: Case					
7	Number 23-2220-RULE via Go To Meeting on February 23,					
8	2024, beginning at 10 a.m.					
9	I further certify that the foregoing					
10	testimony was taken by me stenographically and thereafter					
11	reduced to typewriting, and the foregoing 107 pages are a					
12	transcript of the stenograph notes taken by me of the					
13	evidence and the proceedings, to the best of my ability.					
14	I further certify that I am not related to					
15	any of the parties thereto or their Counsel, and I am in					
16	no way interested in the outcome of said cause.					
17	Dated at Burlington, Vermont, this 29th day					
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