

From: Moore, Julie
Sent: Tuesday, December 3, 2024 7:00 AM
To: Lazorchak, Jane
Cc: Coster, Billy
Subject: RE: Make Big Oil Pay

Sounds good, thanks!



Julia S. Moore, P.E. | Secretary (she/her)
Vermont Agency of Natural Resources
1 National Life Dr, Davis 2 | Montpelier, VT 05620-3901
802-828-1294 office
julie.moore@vermont.gov
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Vermonters, businesses and communities impacted by the July 2024 flood should report damage to [Vermont 211](#). Find resources, guidance and referral information at [vermont.gov/Flood](#). [Volunteer to help](#) or [donate to the Vermont Flood Response & Recovery Fund](#) to support all those impacted.

From: Lazorchak, Jane <Jane.Lazorchak@vermont.gov>
Sent: Monday, December 2, 2024 6:55 PM
To: Moore, Julie <Julie.Moore@vermont.gov>
Cc: Coster, Billy <Billy.Coster@vermont.gov>
Subject: RE: Make Big Oil Pay

Thank you. That is what we plan to confirm with you and the Treasurer when we meet next. I am waiting for Ashlynn to schedule but we have a proposal for you to consider.

From: Moore, Julie <Julie.Moore@vermont.gov>
Sent: Monday, December 2, 2024 6:51 PM
To: Lazorchak, Jane <Jane.Lazorchak@vermont.gov>
Cc: Coster, Billy <Billy.Coster@vermont.gov>
Subject: RE: Make Big Oil Pay

Thanks, Jane. This is helpful.

Beyond the discussion tomorrow, I am interested in learning more about exactly what is planned to be advanced contracting and on what timeline... specifically, I think there are some hard questions that need to be raised in the feasibility report and we likely need to engage the legislature on developing a shared understanding on the total resources required to do this work well and have agreement on a path forward before contracting for additional work.



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From: Lazorchak, Jane <Jane.Lazorchak@vermont.gov>

Sent: Monday, December 2, 2024 8:32 AM

To: Moore, Julie <Julie.Moore@vermont.gov>

Cc: Coster, Billy <Billy.Coster@vermont.gov>

Subject: RE: Make Big Oil Pay

Morning,

Hope you had a great holiday. Thanks for the reminder – I just didn't get to it before the break! If you would like more details, please let me know. I have attached the two proposals which go into the most detail about attribution science for your reference.

- For Vermont's superfund program, determination of the cost recovery amount requires an attribution of the damages associated with the covered emissions for the covered period 1995-2024.
- 'Event attribution' has developed as a scientific field in the past two decades and includes scientific methods that can quantify the effects of climate change on changes in the probability or intensity of a wide variety of extreme weather events, including extreme precipitation. Recent scientific developments allow these methods to be extended to assess climate change impacts on economic losses and human health.
- Callahan and Mankin developed an approach that connects the emissions of individual actors to damages on a national level. For example, to relate heat damages to individual emitters, Callahan and Mankin describe a full causal chain from emissions to impacts. First, the emissions from one emitter are linked to an increase in global mean surface temperature (GMST). This is done using a simple carbon climate model. This change in global temperature due to one emitter's share of emissions can subsequently be linked to a local change in mean temperature or an increase in magnitude of an event such as the mean of the five hottest days in a year. In a final step, Callahan and Mankin use relationships between local temperature changes and economic growth to estimate the damages from the warming associated with one emitter.
- This analysis has never been done for flooding, Vermont's largest climate hazard, but it can be done in principle.
- ANR and the Treasurer's Office received six responses to our RFI, of which four focus on the cost assessment and speak to attribution science as a methodology in calculating it. ANR and the Treasurer's Office are in the process of developing a stepwise approach based on this information to initiate this work. We anticipate advancing contracts associated with this work in the Winter.
- Finally, climate attribution science is not relevant for adaptation costs which is the third component (the other two being historical and future damages) of the cost estimate described in Vermont's superfund law. An approach to calculate was not described in detail across proposals.

See you tomorrow at the event.

Jane

From: Moore, Julie <Julie.Moore@vermont.gov>
Sent: Monday, December 2, 2024 6:44 AM
To: Lazorchak, Jane <Jane.Lazorchak@vermont.gov>
Cc: Coster, Billy <Billy.Coster@vermont.gov>
Subject: RE: Make Big Oil Pay

Hi Jane.

I hope that you had a warm and bright Thanksgiving in NY! I wanted to bump this back to the top of your pile as I am hopeful these same bullets will be helpful to the remarks I am preparing for the EAN legislative policy panel I am part of tomorrow.

Thanks!
Julie



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From: Moore, Julie
Sent: Tuesday, November 26, 2024 7:03 AM
To: Lazorchak, Jane <Jane.Lazorchak@vermont.gov>
Cc: Coster, Billy <Billy.Coster@vermont.gov>
Subject: Make Big Oil Pay

Good morning, Jane.

As you may know, I have been asked to do a media interview on Monday (12/2) about the role that climate attribution science will play under the Climate Superfund Law. While I have a good sense as to the role of attribution science envisioned by MBOP, can you send me a handful of bullets for any key takeaways you gleaned from the RFI responses related to attribution?

Thanks!
Julie



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