

11:31:39 From Breck Lebegue WPSR : Hello from Breck Lebegue MD MPH, WA Physicians for Social Responsibility [www.wpsr.org/transportation](http://www.wpsr.org/transportation)

11:33:10 From Cherice Bock (she/her), 350PDX : Cherice Bock (she/her), 350PDX, climate policy manager

11:33:17 From Derek Hitt MT AFL-CIO : Derek Hitt MT AFL-CIO labor coordinator

11:33:46 From Jamie Ptacek, (she/her), Clean Energy Transition Institute : Jamie Ptacek, she/her, Clean Energy Transition Institute

11:34:13 From Kate French, BlueGreen Alliance, she/her : Kate French, BlueGreen Alliance, Organizer for Rocky Mountain Region

11:34:16 From Rayna Viles : Rayna Viles (they/she), Assistant Director at Beyond Toxics

11:34:40 From Maleek Mckenzie : Maleek Mckenzie, He/Him

11:35:39 From Ruby Moore-Bloom, (she/her), Clean Energy Transition Institute : Ruby Moore-Bloom, she/her, Clean Energy Transition Institute

11:35:59 From Nick Keenan : Nick Keenan, he/him, Climate Reality PDX

11:36:02 From Nick Burnett : Nick Burnett (he/him), Sustainable Northwest

11:36:12 From Keith Curl-Dove (he/him) : Keith Curl-Dove, he/him, Washington Conservation Action, Fossil Fuel Campaign Manager

11:36:33 From Kaleb Lay, Oregon Rural Action : Hello everyone. Kaleb Lay, he/him, Director of Policy and Research with Oregon Rural Action.

11:36:36 From Jessica Carmona - BEF : Hi everyone, I am Jessica Carmona (she/her), Sr Program Manager for the Renewables team at BEF.

11:36:52 From Eddy Ury : Eddy Ury, RE Sources, Climate & Energy Policy Manager (he/him) - Bellingham WA

11:37:48 From Sam Guthman (APANO) : Morning! Sam Guthman (she/her), Policy Manager at APANO

11:56:25 From Ana Colwell : Good morning, I am Ana Colwell J.D. with Beyond Toxics in Eugene

11:59:28 From Celt, Stephanie (COM) : Here is a link to Washington's recent Green Hydrogen legislative report so you can dig into the findings further: <https://www.commerce.wa.gov/energy-blog/renewable-fuels/new-legislative-report-green-electrolytic-hydrogen-and-renewable-fuels-recommendations-for-deployment-in-washington/>

12:04:06 From Michael Freels (ODOE) : OR Renewable Hydrogen Study: <https://www.oregon.gov/energy/energy-oregon/Pages/rh2.aspx>

12:04:58 From Michael Freels (ODOE) : OR HB 2530: <https://olis.oregonlegislature.gov/liz/2023R1/Measures/Overview/HB2530#:~:text=adjournment%20sin>

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,Directs%20State%20Department%20of%20Energy%20to%2C%20where%20appropriate%2C%20seek%20and,hydrogen%20and%20green%20electrolytic%20hydrogen.

12:05:38 From Michael Freels (ODOE) : Oregon Energy Strategy:  
<https://www.oregon.gov/energy/Data-and-Reports/Pages/Energy-Strategy.aspx>

12:07:31 From Kaleb Lay, Oregon Rural Action : Question - the Baker City area is extremely arid. Why is it being considered for electrolysis and where do you intend to get the water?

12:07:45 From Pressler, Shannon (COM) : PNWH2 Community Benefits webpage: Community Benefits - Pacific Northwest Hydrogen Association (pnwh2.com)

12:11:56 From Lisa Arkin, Beyond Toxics : Please provide an analysis of the quantity of water use to produce green hydrogen. Also please provide information about the components of spent water (water discharges) and the environmental impacts.

12:12:17 From Kaleb Lay, Oregon Rural Action : Reacted to "Please provide an an..." with 🎯

12:12:21 From Maleek Mckenzie : Reacted to "Please provide an an..." with 👍

12:13:31 From Cherice Bock (she/her), 350PDX : Reacted to "Please provide an an..." with 👍

12:15:22 From Celt, Stephanie (COM) : Here is a piece of information on water use from WA's report, linked specifically to the modeling data around demand in WA specifically. There's more information in the report:

12:15:43 From Audrey Leonard : Reacted to "Please provide an an..." with 👍

12:16:09 From robin.everett : Sierra Club blog for more info:  
<https://www.sierraclub.org/articles/2022/01/hydrogen-future-clean-energy-or-false-solution>

12:22:36 From Lisa Arkin, Beyond Toxics : How would hydrogen be transported (i.e. sent through pipes) to communities and users? If it embrittles metal, can the gas industry truthfully insist that their current pipeline infrastructure can accommodate blended gas/hydrogen?

12:23:22 From Jamie Holladay : For water usage, the general rule of thumb is ~2.4 gallons of water is consumed per kg H<sub>2</sub> produced

12:25:19 From Maleek Mckenzie : For any that are interested, that is ~9kg of water per kg of Hydrogen

12:25:25 From Kaleb Lay, Oregon Rural Action : Public comment periods are not enough to solicit meaningful involvement of the community. I strongly encourage you to be more intentional in bringing in the communities where these facilities will be located.

12:25:32 From Ana Colwell : Replying to "For water usage, the..."

For the water needed for green H, after it is used, what happens to it then? Will it be treated or what is the plan for it?

- 12:25:39 From Cherice Bock (she/her), 350PDX : Reacted to "Public comment perio..." with 👍
- 12:25:40 From Celt, Stephanie (COM) : WA PEIS information and contact info here: Programmatic EIS - Washington State Department of Ecology
- 12:25:47 From Audrey Leonard : Reacted to "Public comment perio..." with 👍
- 12:25:57 From Nick Keenan : Reacted to "Public comment perio..." with 👍
- 12:26:14 From Maleek Mckenzie : Reacted to "Public comment perio..." with 👍
- 12:26:29 From Kaleb Lay, Oregon Rural Action : Replying to "For water usage, the..."

Also, what are the water quality standards for electrolysis?

- 12:26:40 From Michael Freels (ODOE) : OR Energy Facility Siting-  
<https://www.oregon.gov/energy/facilities-safety/facilities/Pages/default.aspx>
- 12:27:19 From Michael Freels (ODOE) : Guide to Energy Facility Siting in OR-  
<https://www.oregon.gov/energy/facilities-safety/facilities/Documents/Fact-Sheets/EFSC-Public-Guide.pdf>
- 12:30:00 From Breck Lebegue WPSR : How could H2 be used for long-distance trains?
- 12:30:01 From Audrey Leonard : Can you give more info about the Montana facility included in the PNW H2 hub? Why is it included, and will it also be Green H2?
- 12:30:03 From Kaleb Lay, Oregon Rural Action : Repeating my question about Baker City's potential facility - given how arid the area is, why is Baker City being considered and from where will the water be sourced?
- 12:30:13 From Audrey Leonard : Reacted to "Repeating my questio..." with 👍
- 12:30:16 From Maleek Mckenzie : Reacted to "Repeating my questio..." with 👍
- 12:30:22 From Lisa Arkin, Beyond Toxics : Reacted to "Public comment perio..." with 👍
- 12:30:54 From Maleek Mckenzie : Net 0 targets were presumably not taking into account the diversion of renewable energy going towards Hydrogen generation. Is there any math showing that hydrogen generation won't delay meeting these goals?
- 12:33:18 From Ana Colwell : What have you heard back from PNW tribes regarding this potentially impacting their Indigenous lands?
- 12:34:04 From Kaleb Lay, Oregon Rural Action : If community feedback isn't solicited until late in the process, then I am skeptical that it will be meaningful. They need to be involved before the plans are too developed to change and moving forward becomes a foregone conclusion. Again, I encourage you all to involve community from the start and go beyond traditional processes.
- 12:34:22 From Audrey Leonard : Reacted to "If community feedbac..." with ❤️

- 12:34:29 From robin.everett : Reacted to "If community feedbac..." with ❤️
- 12:34:47 From Maleek Mckenzie : The Sierra Club report states that ~96% of existing gas pipelines are steel which is susceptible to embrittlement. How long would it take, and how expensive would it be to convert existing pipelines to be hydrogen "compatible"?
- 12:35:02 From Maleek Mckenzie : Reacted to "If community feedbac..." with ❤️
- 12:35:20 From Kaleb Lay, Oregon Rural Action : What is the hub's position regarding the potential use of H2 as a feedstock to be combined with captured carbon to create methane?
- 12:35:27 From robin.everett : Sierra Club does not believe it should be blended in the gas system. And this Hub will not be doing any pipeline blending
- 12:35:31 From Cherice Bock (she/her), 350PDX : I think Lisa's question needs to be addressed and messaged head on by this hub, because natural gas companies are using this as a tactic to say they can keep expanding, when we know their pipelines cannot handle more than a 15% blend. This disinformation and confusion needs to be CLEARLY rejected, and phasing out of natural gas needs to be messaged.
- 12:35:47 From Audrey Leonard : Reacted to "I think Lisa's quest..." with 👍
- 12:35:50 From Maleek Mckenzie : Reacted to "I think Lisa's quest..." with 👍
- 12:35:59 From Kaleb Lay, Oregon Rural Action : Reacted to "I think Lisa's quest..." with 👍
- 12:36:07 From Derek Hitt MT AFL-CIO : What will be the average life of these plants? Will there be a need for a shutdown like petrol refineries?
- 12:38:01 From robin.everett : Reacted to "I think Lisa's quest..." with 👍
- 12:39:50 From Jamie Holladay : Replying to "I think Lisa's quest..."

Great question. I believe Robin answered about the Hub use of H2 blending

- 12:40:00 From Ana Colwell : Reacted to "If community feedbac..." with ❤️
- 12:40:04 From Ruby Moore-Bloom, (she/her), Clean Energy Transition Institute : Replying to "Net 0 targets were p..."

Hi! Offering a resource that could be helpful here – the Clean Energy Transition Institute (CETI) and Evolved Energy Research were consultants for Commerce's hydrogen report that Stephanie spoke about. CETI and Evolved also produced a study last year called Net-Zero Northwest that models net-zero emissions by 2050 in the NW region, and the analysis incorporates renewable energy that would go toward H2 generation as well as other end uses (e.g., see 3rd figure on this pg showing electricity generation and consumption, including electrolysis and other uses, on the path to net zero: <https://www.nznw.org/energy/electricity> )

12:41:52 From Mark Gerboth (AtkinsRealis, PNWH2 PMO) : Both the Baker City and St Regis projects have smaller electrolyzers, in the 2MW-5MW range.

12:41:58 From Kaleb Lay, Oregon Rural Action : I'm sorry to continue to beat the horse about Baker City/Ash Grove, but there is not even a river nearby. Where will you source the water for electrolysis?

12:42:21 From robin.everett : Lets not talk about tribes as a monolith

12:42:31 From robin.everett : We have been working with some tribes

12:42:40 From Kaleb Lay, Oregon Rural Action : Reacted to "We have been working..." with ❤️

12:42:44 From Celt, Stephanie (COM) : Reacted to "We have been working..." with ❤️

12:42:47 From Cherice Bock (she/her), 350PDX : Reacted to "I'm sorry to continu..." with 👍

12:42:48 From Pressler, Shannon (COM) : Reacted to "We have been working..." with ❤️

12:42:58 From Cherice Bock (she/her), 350PDX : Reacted to "We have been working..." with 👍

12:48:00 From Mark Gerboth (AtkinsRealis, PNWH2 PMO) : @Kaleb Lay, Oregon Rural Action Sorry, we are trying to get that answer for you. We may not be able to respond during this call. If we can't, we will get back to you with an answer.

12:48:01 From Mark Gerboth (AtkinsRealis, PNWH2 PMO) : [This is an encrypted message]

12:48:16 From robin.everett : Reacted to "@Kaleb Lay, Oregon R..." with 👍

12:48:20 From Celt, Stephanie (COM) : Reacted to "@Kaleb Lay, Oregon R..." with 👍

12:48:34 From Kaleb Lay, Oregon Rural Action : Replying to "@Kaleb Lay, Oregon R..."

Thank you. My email is kalebl@oregonrural.org

12:48:38 From Kaleb Lay, Oregon Rural Action : Reacted to "@Kaleb Lay, Oregon R..." with 👍

12:52:53 From Pressler, Shannon (COM) : Reacted to "Hi! Offering a resou..." with 👍

12:54:43 From Celt, Stephanie (COM) : WA COM federal comment submissions:  
<https://www.commerce.wa.gov/energy-blog/renewable-fuels/federal-comment-submissions/>

12:54:48 From Cherice Bock (she/her), 350PDX : Replying to "I think Lisa's quest..."

The answer was basically, "we understand what metals can be used and we'll use the right ones," but didn't address the issue of misinformation and the greenwashing that NG companies are doing

12:55:00 From Celt, Stephanie (COM) : WA/OR/CA Governor's letter: Western-States-Governors-Letter.pdf (archesh2.org)

12:55:30 From robin.everett : Replying to "WA/OR/CA Governor's ..."

And for transparency, Sierra Club is not in alignment with the Governors on this issue

12:55:37 From Jessica Carmona - BEF : Thank you very much!

12:56:23 From Pressler, Shannon (COM) : Reacted to "Thank you very much!" with 👍

12:56:25 From Celt, Stephanie (COM) : DOE white paper on lifecycle GHGs in electrolytic hydrogen, with a section on states with 100% clean regulations and carbon caps: Assessing Lifecycle Greenhouse Gas Emissions Associated with Electricity Use for the Section 45V Clean Hydrogen Production Tax Credit 508\_EDITED (energy.gov)

12:57:02 From Kaleb Lay, Oregon Rural Action : How will those board members be selected?

12:57:59 From Kaleb Lay, Oregon Rural Action : Replying to "How will those board..."

And when?

12:59:31 From Lovel Pratt (she/her) Friends of the San Juans : Replying to "How will those board..."

Please provide info on how to communicate interest in participating

13:00:06 From robin.everett : Reacted to "Please provide info ..." with ❤️

13:00:30 From Celt, Stephanie (COM) : Reacted to "Hi! Offering a resou..." with 👍

13:01:16 From Lisa Arkin, Beyond Toxics : Can the chat discussion be saved and sent to all of us?  
Thanks!

13:01:33 From Derek Hitt MT AFL-CIO : Would someone from Labor be apart of the Board?

13:01:34 From Kaleb Lay, Oregon Rural Action : Reacted to "Would someone from L..." with 👍

13:01:36 From Kaleb Lay, Oregon Rural Action : Removed a 👍 reaction from "Would someone from L..."

13:01:39 From Kaleb Lay, Oregon Rural Action : Reacted to "Can the chat discuss..." with 👍

13:01:53 From Pressler, Shannon (COM) : Replying to "Can the chat discuss..."

I'll be sure to include it in a follow-up email to everyone along with slides!

13:01:57 From Kate McAteer : Replying to "How will those board..."

These advisory boards will be established during phase 1.

13:02:02 From Lisa Arkin, Beyond Toxics : Replying to "Can the chat discuss..."

Thank you!


13:02:22 From robin.everett : Reacted to "Can the chat discuss..." with 


13:02:36 From Lisa Arkin, Beyond Toxics : Please have a strong EJ rep on the Advisory Boards!

13:02:40 From Kaleb Lay, Oregon Rural Action : Reacted to "Please have a strong..." with 

13:02:41 From Audrey Leonard : Reacted to "Please have a strong..." with 

13:02:43 From Audrey Leonard : Reacted to "Please have a strong..." with 

13:02:44 From robin.everett : Reacted to "Please have a strong..." with 

13:02:44 From Lovel Pratt (she/her) Friends of the San Juans : Reacted to "Please have a strong..." with 

13:02:47 From Ana Colwell : Reacted to "Can the chat discuss..." with 


13:02:51 From Lisa Arkin, Beyond Toxics : representatives plural!

13:02:58 From Kaleb Lay, Oregon Rural Action : Replying to "Please have a strong..."

YES. Must be emphasized.

13:02:58 From robin.everett : Reacted to "representatives plur..." with 

13:03:01 From Kaleb Lay, Oregon Rural Action : Reacted to "representatives plur..." with 

13:03:14 From Lovel Pratt (she/her) Friends of the San Juans : Reacted to "representatives plur..." with 

13:03:19 From Michael Freels (ODOE) : Thank you

13:03:24 From Derek Hitt MT AFL-CIO : thank you

13:03:25 From Cherice Bock (she/her), 350PDX : Reacted to "Please have a strong..." with 