

**Docket No. UE-210795 - Vol. II**

**In the Matter of Puget Sound Energy's Clean Energy  
Implementation Plan**

**January 24, 2023**



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BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

In the Matter of: )
)
Puget Sound Energy's Clean Energy Implementation Plan ) Docket: UE-210795
Pursuant to WAC 480-100-640 )
)
)

\* VIDEOCONFERENCE \*

PUBLIC COMMENT HEARING VOLUME II

Pages 36-85

January 24, 2023 6:03 p.m.

\* All participants appeared via videoconference \*

REPORTED BY: Tia B. Reidt, Washington RPR, CCR 2798 Oregon # 22-0001

Tuesday, January 24, 2023 6:03 p.m.

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PROCEEDINGS

MR. DANNER: Alright. Good evening, everyone.

Today is January 24th, 2023, and this is a public hearing of the Washington Utilities and Transportation Commission for the purpose of taking public comment on the Clean Energy Implementation Plan filed by Puget Sound Energy in UTC Docket UE-210795.

I'm Dave Danner. I'm chair of the Commission, and I'm joined by my colleagues Commissioner Milt Doumit and Commissioner Ann Rendahl.

By way of background, in 2019, the Washington Legislature passed the Clean Energy Transformation Act, or CETA, which, among other things, requires that the State's electric utilities remove coal power from their portfolios by the end of 2025, be net carbon neutral by 2030, and be 100 percent carbon free by 2025.

The Washington Utilities and Transportation Commission regulates the State's investor-owned utilities. To ensure that these utilities achieve the

APPEARANCES

Washington Utilities and Transportation Commission:

- RYAN SMITH
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Kathy Brenniman 39
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target set out in CETA, the law requires each utility to file a detailed plan, called a Clean Energy Implementation Plan, every four years starting in 2021, with updates every two years after a plan is filed.

These plans set out the utility's interim targets and detail the actions of the utility to make sure it will comply with CETA's 2030 and 2045 mandates.

Tonight we are hearing public comment on the clean Emergency Implementation Plan filed by Puget Sound Energy in December of 2021. In this plan, Puget Sound Energy proposes an interim target of 63 percent renewable energy by 2025 with specific sub-targets for distributed energy resources and measures to ensure that compliance costs are reasonable and that benefits to customers are identified and equitably distributed. The Commission will review this plan in a formal adjudication.

The parties to the case are Puget Sound Energy, the Commission's regulatory staff, which functions independently from the Commissioners, because the Commissioners act as judges, and advocates for marginalized community - excuse me - as well as industrial customers representatives for low-income advocates, environmental advocates, and advocates for marginalized communities of color.

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1 By law, the Office of Public Counsel and the  
 2 Office of Attorney General represents the interests of  
 3 residential and small business customers of Puget Sound  
 4 Energy.  
 5 The comments we receive tonight, as well as  
 6 written comments we received from the public, will be  
 7 made part of the formal record in this proceeding. For  
 8 this reason, we will need to swear in all those who  
 9 comment tonight.  
 10 The Commissioners act as judges in this case.  
 11 And for that reason, we're here tonight to listen to  
 12 your comments, but not to engage in debate with  
 13 commenters, or to answer questions. If you have  
 14 questions about this case, we'll refer them either to  
 15 public counsel or to Andrew Roberts of Commission  
 16 staff, who will speak to you in a moment.  
 17 In fact, I will turn it over to Andrew Roberts  
 18 right now to cover some meeting logistics.  
 19 So go ahead, Andrew.  
 20 MR. ROBERTS: Okay. Good evening.  
 21 My name is Andrew Roberts. I'm a regulatory  
 22 analyst with the Commission's Consumer Protection  
 23 Center. I would like to cover some meeting logistics  
 24 tonight.  
 25 First, this hearing is being broadcast live on

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1 TBW. We ask that everyone please mute your connections  
 2 unless you were called on to speak. If you're  
 3 participating via Zoom, you can mute your connection by  
 4 clicking the microphone icon on the bottom of the  
 5 screen. A slash will appear across a microphone  
 6 indicating you've muted your connection. If you called  
 7 in, you can press star 6 to mute your phone. And when  
 8 you're called on to speak, you can press star 6 again  
 9 to unmute yourself. After you're done speaking, we  
 10 remind everybody to please remember to mute themselves.  
 11 Please wait to be called on for comment and do  
 12 not interrupt other speakers.  
 13 There are two options this evening to report  
 14 technical difficulties. The first is the use of the  
 15 chat feature in Zoom. The second is to call Ryan Smith  
 16 at (360) 664-1165. Once again, that's (360) 664-1165.  
 17 The chat feature should only be used to report  
 18 technical difficulties. We will not be accepting  
 19 comments via the Zoom chat feature. Please do not use  
 20 the chat feature to provide your comments.  
 21 We ask everyone please limit their comment to  
 22 three minutes is a that everyone that has a chance to  
 23 speak.  
 24 If you have questions about the case, please  
 25 email comments@utc.wa.gov. Once again, that's comments

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1 with an "s," @utc.wa.gov, or call 1(888)333-9882, and  
 2 ask to speak with me, Andrew Roberts.  
 3 Next, we have a list of folks who would like  
 4 to -- who have already signed up to speak tonight. If  
 5 you are -- if you've already signed up to speak, we  
 6 have, Jodi Blackburn-Roehl, Nora Rainwater, Gary Gooch,  
 7 Kathy Brenniman, Frank Damiano, Danny --  
 8 MR. DAMIANO: Here --  
 9 (Speaking simultaneously. Unreportable  
 10 crosstalk.)  
 11 MR. ROBERTS: -- Laura, and Karen Klein  
 12 [phonetic].  
 13 You do not need to provide your names to sign  
 14 in tonight. We already have your names.  
 15 We would like to ask anyone else who would  
 16 like to provide comment tonight to please raise your  
 17 hand. You can raise your hand by using the "reactions"  
 18 button in Zoom or pressing star 9 if you called in over  
 19 the phone.  
 20 I see Peter Werner is raising his hand on the  
 21 video. I will --  
 22 I got your name, Peter.  
 23 MR. WERNER: That's correct.  
 24 MR. ROBERTS: Okay.  
 25 I'm not seeing any other hands raised.

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1 Okay. I see Jim Lazar, Pete Weymiller, Aubrey  
 2 Newton. Sorry. That was -- that was Aubrey Newton.  
 3 Jim Adcock, Ryan Grunkemeyer, and Gary with their hands  
 4 raised.  
 5 Okay. Is there anybody else?  
 6 And please try not to interrupt each other.  
 7 Is there anyone else who would like to provide  
 8 comment today?  
 9 Frank Damiano, we have your name. Thank you.  
 10 Okay. If anyone was not able to raise their  
 11 hand, could you please speak up now.  
 12 MR. FALLA: I'm unable to raise my hand for  
 13 reasons I cannot explain.  
 14 MR. ROBERTS: Okay.  
 15 And your name is?  
 16 MR. FALLA: Adrian Falla. I have  
 17 communicated in chat.  
 18 MR. ROBERTS: Okay. Thank you.  
 19 We have your name.  
 20 Okay. With that, I will turn the time over to  
 21 Chair Danner, Commissioner Rendahl, and Commissioner  
 22 Doumit.  
 23 Thank you.  
 24 MR. DANNER: All right.  
 25 Thank you very much.

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1 Unless my colleagues have any introductory  
 2 comments they would like to make, we will get right  
 3 into the public comment hearing.  
 4 And so I would ask if you are intending to  
 5 comment tonight, we need to swear you in. So please  
 6 raise your right hand.  
 7 Do you swear to tell the truth, the whole  
 8 truth, and nothing but the truth? Please say "I do."  
 9 MR. LAZAR: Yes.  
 10 MS. NEWTON: I do.  
 11 MR. DAMIANO: Yes.  
 12 MS. KLEIN: I do.  
 13 MR. DANNER: All right. Thank you. Thank  
 14 you very much.  
 15 We will start.  
 16 Jodi Blackburn-Roehl, you have signed up but  
 17 not clear whether you want to speak. Do you want to  
 18 make comments tonight?  
 19 (No response.)  
 20 MR. DANNER: All right. I'm not hearing  
 21 anything.  
 22 Nora Rainwater, would you like to make some  
 23 comments here?  
 24 MS. RAINWATER: Yes, I would like to make  
 25 a comment.

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1 Can you hear me?  
 2 MR. DANNER: Yes, we can. Thank you.  
 3 MS. RAINWATER: Okay.  
 4 This is only about two minutes long.  
 5 When we disconnect from coal power and find  
 6 that wind power doesn't work well when the wind isn't  
 7 blowing, as Europe is realizing, and that the turbines  
 8 shred the birds flying into their paths, and that solar  
 9 needs a lot of sun to be most effective, a challenge  
 10 here in the Northwest, and it's actually mostly  
 11 auxiliary, not suited for sustained power, for the  
 12 thousands of households. We need to think about how  
 13 long it would take to get coal power back on line.  
 14 And, by the way, there are coal industry leaders that  
 15 have found very clean ways to burn coal.  
 16 Also, if we run out of electricity for our  
 17 homes, having rolling blackouts, I don't understand how  
 18 we'll be able to charge electric vehicles which have  
 19 batteries, by the way, that can and do ignite  
 20 spontaneously, taking hours or even days and thousands  
 21 of gallons of water to extinguish.  
 22 Furthermore, in the making of these  
 23 lithium-ion batteries, that requires tons of earth to  
 24 be dug up to obtain the materials to be used, in mostly  
 25 poor countries, and that rapes the earth in the poor

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1 countries, which is not very sustainable or, by the  
 2 way, ethical.  
 3 And another thing to think about is that other  
 4 countries do not have the same eco-conscious ideas as  
 5 we do. So if we obtain materials from other countries,  
 6 China, wherever, they are not even worried about what  
 7 they do to the land.  
 8 So I am asking that you think of these things  
 9 in consideration of this if the whole point is to live  
 10 greener. We have to consider or other countries that  
 11 play into this because you know they don't have our  
 12 standards.  
 13 Thank you.  
 14 MR. DANNER: All right. Thank you very  
 15 much, Nora Rainwater. Appreciate your comments.  
 16 Let me turn to Gary Gooch. You signed up. Do  
 17 you wish to speak tonight?  
 18 (No response.)  
 19 MR. DANNER: Gary Gooch?  
 20 (No response.)  
 21 MR. DANNER: All right. We'll turn to  
 22 Kathy Brenniman.  
 23 Are you there?  
 24 (No response.)  
 25 MR. DANNER: All right. Frank Damiano,

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1 are you there?  
 2 MR. DAMIANO: Yes, sir.  
 3 MR. DANNER: Go ahead, then.  
 4 MR. DAMIANO: The problem with these  
 5 proposals is Puget Sound Energy wants to pass the cost  
 6 of their ideas onto us. I don't want that. They just  
 7 increased the cost of natural gas this November 2022,  
 8 and they increased the cost of electric and natural gas  
 9 again this January 2023.  
 10 Regarding the proposal involving removing coal  
 11 as a source of electricity, I would like to suggest --  
 12 why not move toward clean coal technologies, which are  
 13 already working in other facilities?  
 14 Regarding the proposal involving wind and the  
 15 wind turbines, I have concerns:  
 16 A) Ice accumulation on the blades contributed  
 17 to power outages during the 2021 Texas blackout.  
 18 B) Wind turbines are prone to gearbox failure  
 19 in only ten years. And the gearbox is costly to  
 20 replace.  
 21 It goes without saying when the turbine is not  
 22 spinning, it's not generating revenue or power.  
 23 Finally, the fiberglass blades on the wind  
 24 turbines last only 20 years. And they're not  
 25 cost-effective to recycle. Therefore, the blades are

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1 often sent to landfills.  
 2 Conclusion: We need to make sure we are not  
 3 solving one problem and creating another.  
 4 That's it.  
 5 MR. DANNER: All right.  
 6 Thank you very much. I appreciate your  
 7 comments.  
 8 Danita Geyer, are you there, and do you wish  
 9 to speak this evening?  
 10 (No response.)  
 11 MR. DANNER: All right.  
 12 We have someone signed up as Laura, with no  
 13 last name.  
 14 Are you on the line? Do you wish to speak  
 15 tonight?  
 16 (No response.)  
 17 MR. DANNER: All right.  
 18 Karen Klein, are you there? Are you --  
 19 MS. KLEIN: Hi. Yes.  
 20 Can you hear me okay?  
 21 MR. DANNER: Yes. Thank you.  
 22 MS. KLEIN: Yeah. I would like to speak  
 23 in favor of decarbonizing. I think that's a great  
 24 idea. I have nothing against wind power or any of the  
 25 other things that have been mentioned so far tonight.

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1 What I do have a problem with is the  
 2 regressive tax structure that we have in our state that  
 3 then this Commission is going to offload your costs  
 4 onto your general customer, who is suffering through,  
 5 you know, not only a pandemic, but an inflationary  
 6 period and the like. And the average person cannot  
 7 take, what I'm reading, is a 15.8 percent increase in  
 8 their bill, you know, soon. And I think that's  
 9 unreasonable.  
 10 And I think that we need to look to taxing  
 11 billionaires in this state. And we need to look to our  
 12 legislature to fund the decarbonization of fossil fuels  
 13 by taxing the right people. And this is not fair for  
 14 the average person in Washington state. And it's going  
 15 to be hard on families. And I -- I'm just (inaudible  
 16 Zoom audio) against it. We know that there's plenty of  
 17 wealthy people that are for decarbonizing. Let them  
 18 pay for it.  
 19 That's the end.  
 20 MR. DANNER: All right.  
 21 Thank you very much for your comment.  
 22 Peter Werner, and then Jim Lazar.  
 23 Peter Werner, are you there?  
 24 MR. WERNER: Yes. I just -- I just --  
 25 MR. DANNER: All right.

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1 MR. WERNER -- un-muted.  
 2 MR. DANNER: Please go ahead.  
 3 MR. WERNER: I come from -- I come from a  
 4 back -- I'm an electrical engineer, a retired  
 5 electrical engineer; 40 years of controlling and  
 6 converting power and energy, which are both very  
 7 different for both -- primarily for industrial  
 8 processes, but dealing with systems in the megawatt and  
 9 above. So -- and I'm very very familiar and  
 10 knowledgeable about the physics of converting energy  
 11 and controlling it.  
 12 There's a lot of rabbit holes we can go down  
 13 here. The primary one for me, at this stage, is the  
 14 unrealistic expectation that wind -- voltaic solar and  
 15 wind turbines are potential sources of energy. They're  
 16 actually sources of intermittent and relatively diluted  
 17 or regularly diluted, I should say, sources of power.  
 18 They do come from wind and solar energy, but  
 19 in their transduction to turning turbines, they now are  
 20 power systems. And both UTC and PSE and a lot of  
 21 people conflate the issues relative to energy and  
 22 power.  
 23 So they are not sources of energy. Energy is  
 24 something you can store. It generally has mass and can  
 25 be transported. There's no way of storing wind or

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1 solar, other than directly into batteries. But  
 2 batteries themselves are no more a source of energy,  
 3 unless charged, than empty tanks are a source of fuel.  
 4 So it's a dangerous path, I believe, in going  
 5 down and expecting that you're going to take wind and  
 6 solar and voltaic solar. You know, there's thermal  
 7 solar. That's another source of steam. But that's my  
 8 main concern.  
 9 If we were truly interested in reducing the  
 10 problems with burning fossil fuels, and there are,  
 11 okay? I think they're fairly overblown --  
 12 substantially overblown. But if there is a concern in  
 13 reducing the pollution due to the burning of fossil  
 14 fuels, there should be a stellar interest in the  
 15 fission of uranium or what other -- so right now  
 16 uranium is the most logical source. And that seems to  
 17 be totally off the board, from what I can read.  
 18 Every -- all of the -- all of the efforts seem to be  
 19 towards wind and solar.  
 20 And there's so many problems with turbines. A  
 21 couple people have mentioned them, but wind turbines,  
 22 the larger they get, the higher they are, the more  
 23 massive they are on towers that are actually around the  
 24 world beginning to fall down because they're extremely  
 25 complicated systems to engineer effectively.

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1 In the mid ranges, in the high kilowatt  
 2 levels, they're reasonably safe and doable, even though  
 3 there are units that are up into the megawatts.  
 4 Anyway, I could go down a ton of rabbit holes  
 5 here. I think all the folks involved in this have to  
 6 look at it from a good practical engineering position  
 7 and understand the difference between power and energy.  
 8 There's a huge, huge difference between power and  
 9 energy.  
 10 And with wind and voltaic solar, you're  
 11 dealing with power. It's intermittent, and it diluted.  
 12 And it's not energy. Unless you can store it and move  
 13 it, it's not energy.  
 14 So I'll stop at that.  
 15 I'm sure you're well-intentioned. I'm very  
 16 certain you're all well-intentioned. But many of  
 17 you -- many of you are technically misguided.  
 18 MR. DANNER: All right.  
 19 Thank you for your comments.  
 20 Jim Lazar followed by Pete Weymiller.  
 21 Jim Lazar, go ahead.  
 22 MR. LAZAR: Thank you. And Good evening.  
 23 I recommend that the Commission order in this  
 24 docket direct PSE to include two additional measures in  
 25 its next update of the CEIP.

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1 The first of these is to include examination  
 2 of a service rule change, that water heaters and EV  
 3 chargers over 3 and a half kw be served by smart  
 4 circuit breakers or other control networks. This would  
 5 make a great deal of additional demand response  
 6 available on the order of a thousand at peak for water  
 7 heaters alone.  
 8 The shape of these two loads is very peak  
 9 coincident. Every new electric water heater already  
 10 has a socket for control radio. Most 6 kw and above EV  
 11 chargers also have controls enabled.  
 12 You can identify these with the interval data  
 13 that smart meters provide. Water heaters typically  
 14 hold a day's supply, so being curtailed for an hour  
 15 here and there is just not a problem. Modern heat pump  
 16 water heaters can be set to heat pump only mode and  
 17 will not exceed the 3.5 kw limit. Every one of us  
 18 would rather have our hot water and EV chargers  
 19 interrupted if the alternative is a rolling blackout or  
 20 purchase of extremely expensive power.  
 21 The second issue is that PSE should study the  
 22 transfer of its customers in Skagit, Whatcom, Kitsap,  
 23 and Kittitas Counties to electric service by the local  
 24 public utility districts. This would reduce PSE loads,  
 25 and thus accelerate the rate at which they could move

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1 to a hundred percent clean energy.  
 2 These PUDs can access VPA power in the 2027  
 3 new contract process and serve these customers with  
 4 clean energy. They will likely be able to provide  
 5 service at rates comparable to or lower than PSE. So  
 6 these customers will be worse off because of BPA's  
 7 lower wholesale power prices.  
 8 Because these are counties in which PSE  
 9 provides only electricity, not natural gas, PSE does  
 10 not achieve economies of scope as it does, for example,  
 11 in Thurston County, where it provides both electricity  
 12 and natural gas.  
 13 As a result, those of us who take both  
 14 services from PSE in essence subsidize those who take  
 15 only electricity and pay more than our share of the  
 16 admin costs. I believe shutting these customers will  
 17 help lower costs for PSE's remaining customers. So  
 18 please direct PSE to study these two items in the order  
 19 in this docket.  
 20 Thank you.  
 21 MR. DANNER: All right. Thank you very  
 22 much.  
 23 And Pete Werner, I think, followed by Aubrey  
 24 Newton.  
 25 Pete Werner, go ahead.

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1 MR. WEYMILLER: Pete Weymiller?  
 2 MR. DANNER: I'm sorry. Could you spell  
 3 that, sir?  
 4 MR. WEYMILLER: Can you hear me?  
 5 MR. DANNER: Yes.  
 6 MR. WEYMILLER: W-E-Y (inaudible Zoom  
 7 audio). And I'm sure you know how to spell the first  
 8 name.  
 9 MR. DANNER: Yes.  
 10 MR. WEYMILLER: Okay. Very good.  
 11 Hello, Commissioners. And thank you for  
 12 holding this hearing and for showing interest in the  
 13 welfare of PSE Customers.  
 14 The Intergovernmental Panel on Climate Change  
 15 is a globally-accepted authority on climate change,  
 16 probably because their report is the consensus of 97  
 17 percent of publishing climatologists. Recently the  
 18 IPCC reported that climate change is now widespread,  
 19 rapid, and intensifying. We've witnessed this in  
 20 recent years.  
 21 Two weeks ago, NOAA released a report showing  
 22 that damage from climate changes this last year in the  
 23 US total \$165.1 billion. We're already seeing how  
 24 increasing temperatures evaporate more moisture in our  
 25 atmospheric rivers locally, and we're still seeing

<p style="text-align: right;">Page 56</p> <p>1 droughts, forest fires, higher incidences of lightning  2 strikes, higher risk -- the list goes on. A large  3 share of greenhouse gases come from our energy sector.  4 Not only do fossil fuels poison our land, water, and  5 air, they're overheating our planet quicker than even  6 the IPCC predicted.  7 I appreciate the PSE committing to their  8 target goal of RE of 15 percent, and then exceeding  9 that for the last two years. And I appreciate them,  10 too, for their commitment to implement significant wind  11 power. After ten years, we're counting on them to live  12 up to their word and make this rubber meet the road.  13 But we need them to take advantage of all of  14 the opportunities right now to meet this climate  15 challenge, and to do it right - - do right by PSE  16 customers that are under PSE care only.  17 Some of us are doing our part. I have 58  18 solar panels on a home in Gig Harbor. I'm in contract  19 to have panels and battery backups installed on two  20 more homes that I recently purchased in a low-income  21 neighborhood in Bremerton.  22 This is a community of honest and hard working  23 people who help each other out. Most of our homes are  24 80 to 100 years old, with inadequate insulation and  25 outdated appliances. A neighbor and I have heat pumps,</p>	<p style="text-align: right;">Page 58</p> <p>1 things worse. Please don't wait for RFP and jump on  2 all the opportunities to modernize our electricity  3 generation and use. We can always change the plan  4 later. Let's cover all bets.  5 Right now will be known as the defining moment  6 for PSE. Will they step up to the challenge of social  7 responsibility for their loyal but captive customers?  8 Please, let's together put PSE and their customers at  9 the leading edge of innovation at a time that it is  10 needed most and avoid the delay that will be costly for  11 so many stakeholders on so many levels.  12 Thank you.  13 MR. DANNER: All right. Thank you.  14 And then we will go to Aubrey Newton, followed  15 by Pete Werner.  16 All right. Aubrey Newton, are you there?  17 MS. NEWTON: I am.  18 Good evening, Commissioners. Thank you for  19 the opportunity to speak this evening.  20 As mentioned, my name's Aubrey Newton, and I'm  21 speaking this evening on behalf of the Washington and  22 Northern Idaho District Council of Laborers. We  23 represent thousands of construction workers who build  24 our states and energy infrastructure. We are also an  25 affiliate of the Laborers' International Union of North</p>
<p style="text-align: right;">Page 57</p> <p>1 but our electricity was still over \$250 a month. And  2 this is before the 8.7 percent increase.  3 How are any of my neighbors supposed to get  4 ahead to buy energy and cost-saving insulation and RE  5 technology? Some neighbors offset heat costs by  6 burning wood, creating more dangerous particulates.  7 We've already experienced historic,  8 self-inflicted damage to our environments, and we know  9 that (inaudible Zoom audio) greatest opportunity in  10 history to reduce our greenhouse gases.  11 Recently passed were a bipartisan  12 infrastructure bill and the Inflation Reduction Act  13 with funds to address this very emergency. And the  14 cost of RE technology has already dropped significantly  15 with increased innovation scale. Solar panels are now  16 50 percent lower than when we installed ours. But the  17 time is now. The technology is here. The funding is  18 here. We just need to do the right thing and be  19 responsible to customers that rely on us.  20 Sure, it may be easier and cheaper in the  21 short run to (inaudible Zoom audio) delays and  22 (inaudible Zoom audio) the RFP (inaudible Zoom audio)  23 as a result to adopt a minimum 2 percent RE to become  24 compliant, (inaudible Zoom audio) all of us from  25 reading our target goal. (Inaudible Zoom audio) make</p>	<p style="text-align: right;">Page 59</p> <p>1 America, or LIUNA, which represents over 500,000  2 workers in the United States and Canada. Again, we  3 thank you for the opportunity to submit comments on  4 PSE's CIP this evening.  5 When compared to other investor-owned  6 utilities, Puget has taken steps to promote  7 high-quality labor standards. The company's 2021  8 All-Source RFP, for example, gives preference to  9 projects that utilize project labor agreements as well  10 as projects constructed with high labor standards,  11 including family-sustaining wages and benefits and  12 employment opportunities for local workers. PSE is  13 also requiring union labor provisions in its future  14 Green Direct program projects. We commend the company  15 for these efforts.  16 In order to capture the full value, though, of  17 clean energy employment benefits, we offer suggestions  18 to the company's job-related customer benefit  19 indicators, or their CBIs. PSE's six employment  20 metrics are intended to assess the quality and quantity  21 of jobs created to the extent to which local workers  22 and highly-impacted and vulnerable communities have  23 access to these jobs.  24 We believe, however, that absent specific  25 employment targets and baseline data, the proposed</p>

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<p>1 metrics will provide an incomplete picture of net                  2 benefits. The company and the Commission can use data                  3 related to the Lund Hill Solar Farm developed by                  4 Avangrid for PSEs Green Direct program as a baseline to                  5 measure the indicators. Alternatively, the company can                  6 compare proposed clean energy job metrics to the                  7 quality of fossil fuel construction jobs.                  8 Because our members have been employed on both                  9 clean energy and fossil fuel construction jobs, and our                  10 local affiliates regularly visit construction job                  11 sites, we know that the clean energy sector has lower                  12 local employment rates and offers lower wages and                  13 benefits compared to fossil fuel related energy,                  14 projects. Therefore, the Commission and the utilities                  15 can also reference public infrastructure projects in                  16 Washington State for targeted hiring rates of local                  17 workers, registered apprentices, and workers from                  18 historically disadvantaged communities.                  19 Furthermore, PSE and the Commission can                  20 utilize union collective bargaining rates and                  21 prevailing wages and benefits as a baseline to assess                  22 the quality of clean energy construction jobs.                  23 If the Commission does not adopt these                  24 recommendations, the Commission should order PSE at                  25 least to work with labor stakeholders to establish</p>	<p>1 MR. WERNER: Understood.                  2 MR. DANNER: So now we will go, then, to                  3 Jim Adcock, followed by Brian Grunkemeyer.                  4 MR. ADCOCK: Thank you.                  5 MR. DANNER: Jim Adcock, are you there?                  6 MR. ADCOCK: Yeah. Thank you.                  7 Can you hear me?                  8 MR. DANNER: Yes, I can.                  9 MR. ADCOCK: James Adcock, electrical                  10 engineer, MIT stakeholder, and leading Puget Sound                  11 critic for the last dozen-plus years.                  12 What Puget should be doing? Maximizing energy                  13 efficiency, maximizing demand response, such as demand                  14 response in electric water heaters. These are lowest                  15 costs. They are always lowest costs. Lowest costs                  16 first.                  17 Next, wind power. Lowest cost wind power.                  18 Wind power is about \$35 a megawatt hour; less than just                  19 the fuel costs of running natural gas generation.                  20 Every wind tower Puget build saves ratepayers                  21 money. It does not cost us money. It saves us money.                  22 But Puget tells us IPR stakeholders that is not what                  23 they are going to do. They are not going to build what                  24 Puget calls renewables overbuild. It is not overbuild                  25 unless more than 100 percent of Puget's power comes</p>
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<p>1 employment targets for local workers and workers from                  2 highly-impacted and vulnerable communities and to                  3 determine the appropriate data sources to measure the                  4 quality of clean energy jobs.                  5 Again, we'll be submitting these comments                  6 further to the Commission via email for further review,                  7 and we thank you very much for your time this evening.                  8 Thank you.                  9 MR. DANNER: All right. Thank you very                  10 much. I appreciate your comments.                  11 Peter Werner, do you wish to speak?                  12 MR. WERNER: Yes. I already did, but I                  13 would be --                  14 MR. DANNER: Oh.                  15 MR. WERNER: I would love to keep talking.                  16 But...                  17 MR. DANNER: I'm sorry. I'm getting you                  18 mixed up with Pete Weymiller. So pardon me for doing                  19 that.                  20 MR. WERNER: And I think he -- anyway,                  21 I'll let you go.                  22 MR. DANNER: All right.                  23 If you have additional comments, we would                  24 accept written comments, as Andrew Roberts laid out                  25 earlier.</p>	<p>1 from renewables.                  2 Instead, Puget wants to build more natural gas                  3 generation but simply call that generation hydrogen                  4 generation. And by calling it hydrogen generation,                  5 Puget claims it qualifies for CEIP. This is what Puget                  6 is telling IRP stakeholders. So that is what Puget is                  7 really doing. Continued business as usual, building                  8 yet even more natural gas generation, but not even to                  9 serve their own ratepayers, but rather to serve                  10 California ratepayers. Most of this new natural gas                  11 power will be going to California. We pay to build it,                  12 but the power goes to California.                  13 CBIs. Puget invents CBIs out of thin air to                  14 justify what Puget wants to build, which is not lowest                  15 cost, not nearly lowest costs, but rather the most                  16 expensive and the least amount of greenhouse gas                  17 reductions so that Puget can get to a Puget-invented 2                  18 percent off-ramp without doing the real required                  19 greenhouse gas reductions.                  20 Puget will get to 2030 having spent nearly an                  21 additional 20 percent on taxpayer rates in addition to                  22 natural gas fuel cost inflations. And then besides                  23 [indecipherable], not show any real substantial                  24 greenhouse gas reductions, not getting to the 80                  25 percent, as required by CETA.</p>



1 Off-ramps. The 2 percent off-ramp does not  
2 exist until after 2030, but Puget is required by CETA  
3 to get 80 percent -- to get to 80 percent by 2030. So  
4 there is no 2 percent off-ramp excuse for Puget not to  
5 get to 80 percent. But Puget is claiming they can make  
6 that excuse. No, they can not. Puget can not avoid  
7 the 80 percent by 2030 requirement simply by wasting  
8 ratepayer monies in sufficient amounts to get out of  
9 that requirement. Puget must get to 80 percent by 2030  
10 period.

11 There is, on the other hand, a different  
12 off-ramp. There is the cost containment alternative  
13 compliance payments that the legislature built into  
14 CETA to keep ratepayers from getting ripped off.  
15 Rather than pay an excess amount of ratepayer money for  
16 any method, Puget can just use alternative compliance.  
17 So Puget should never be paying more per megawatt hour  
18 for any method than the price of natural gas generation  
19 plus the alternative compliance payment, which gives  
20 you total something like \$120 per megawatt hour.

21 So if Puget wants to spend more than about  
22 \$120 per megawatt hour on some method, UTC must simply  
23 say clearly, no, that is too expensive. Nothing should  
24 cost ratepayers more than about \$120 per megawatt hour,  
25 period. That is why the legislature put the cost

1 We shift charging for electric vehicles to the  
2 best time of day to keep EV charging green and cheap.  
3 And we can help charge cars before weather events cause  
4 power outages to improve resiliency. I want to raise  
5 the bar for our vision and ambition by talking about  
6 our solution.

7 We've done work with utilities in Australia  
8 and the US to avoid EV charging during peak times. In  
9 Australia, we were able to shift about three-fourths of  
10 the charging to off-peak times, and we helped to soak  
11 up excess solar. In Australia, they frequently have  
12 negative power prices, so this shifting was a great way  
13 to lower total system costs. We can do the same thing  
14 by importing solar from California.

15 In Maine, we were able to shift 85 percent of  
16 the power away from their peak period. And with a  
17 project with Rocky Mountain Power, we modeled that we  
18 can save 45 percent of the carbon emissions used to  
19 charge your car.

20 This technology is ready for my company and  
21 several others. We could have helped reduce carbon  
22 emissions last year. It's time to embrace demand  
23 flexibility to reduce carbon emissions now.

24 So getting to the CEIP, I think PSE should be  
25 looking at a higher amount of demand response. We

1 containment cap in there. \$120 max. Not \$550 per  
2 megawatt [indecipherable].

3 In summary, I believe this is all turning into  
4 an unmitigated disaster with Puget wasting money  
5 willy-nilly, at the same time failing to meet  
6 significant greenhouse gas reductions. This is to be  
7 expected. Monopoly power behavior. This is why UTC  
8 exists, to stop utility monopolies from engaging in  
9 this kind of egregious behavior, so-called  
10 environmental hostage taking. Please stop Puget from  
11 doing this egregious behavior. Do not let them get  
12 away with this.

13 Thank you for your consideration.

14 Thank you.

15 MR. DANNER: All right. Thank you very  
16 much, James Adcock.

17 Brian Grunkemeyer, are you there?

18 MR. GRUNKEMEYER: Yes. Yes.

19 MR. DANNER: Yes.

20 You would like to make comments?

21 MR. GRUNKEMEYER: Absolutely.

22 I'm Brian Grunkemeyer from Redmond. I'm also  
23 a PSE customer. But I'm also the founder of  
24 FlexCharging, an electric vehicle demand flexibility  
25 provider.

1 would like to replace demand response with demand  
2 flexibility where utilities incentivize doing the right  
3 thing everyday instead of begging people to shut off  
4 power on a few peak days. However, DR is a good step  
5 in the first direction. Or a small -- a small first  
6 step.

7 And to echo Jim Lazar's point, smart hot water  
8 heaters are a perfect idea for our region, especially  
9 since our state already requires smart hot water  
10 heaters to be installed everywhere.

11 Execution-wise, I would like to make sure that  
12 PSE actually builds something quickly as a result of  
13 this CEIP. They have, in the past, issued RFPs, but  
14 not necessarily acquired any resources as a result of  
15 that RFP. That process makes you wonder whether it's  
16 just a legal requirement as opposed to a more  
17 deliberate way to expand their portfolio.

18 And lastly, the Sierra Club and Northwest  
19 Energy Coalition both provided very good comments.  
20 Please review them if you haven't.

21 Thank you very much.

22 MR. DANNER: All right. Thank you very  
23 much. Appreciate your comments.

24 All right. We have an individual who  
25 identified themselves as Gary.

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1 Gary, are you on the line?  
 2 MR. LINDAHL: I am.  
 3 Can you hear me okay?  
 4 MR. DANNER: Yes.  
 5 You didn't provide a last name. Do you wish  
 6 to do so or --  
 7 MR. LINDAHL: Yes, I do. Last name is  
 8 Lindahl, L-I-N-D-A-H-L.  
 9 MR. DANNER: All right. Thank you.  
 10 MR. LINDAHL: And I'm also a professional  
 11 engineer.  
 12 MR. DANNER: Okay.  
 13 Go ahead, then.  
 14 MR. LINDAHL: The CEIP appears to be  
 15 overly reliant on intermittent, unreliable solar and  
 16 wind. I think this will lead to a less reliable grid.  
 17 And the CEIP mentions a maximum power output expected  
 18 from wind and solar. I find that very misleading  
 19 because the maximum power for these systems is rarely  
 20 achieved for more than an hour or two a day.  
 21 It also mentions a battery peak power, but not  
 22 the energy capacity of the battery, which would be like  
 23 kilowatt hours. I also find that very misleading.  
 24 They throw out these big numbers, but it's kind of  
 25 meaningless.

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1 They also mentioned a biomass, which I find  
 2 amusing. If we're going to burn stuff for energy, why  
 3 not build waste energy facilities like Europe does? So  
 4 burying garbage is just a cheap methane generator.  
 5 The plan for more base load power is surly  
 6 lacking. I didn't see anything on small modular  
 7 reactors. I think Bill Gates could help you with that,  
 8 by the way.  
 9 I know we do have a lot of water power in this  
 10 state. But, as you know, the earth is heating up.  
 11 What if we run out of water like Lake Mead is  
 12 experiencing right now? I think this whole plan is a  
 13 plan for disaster, and we need to focus a lot more on  
 14 base load power.  
 15 Thank you for your time.  
 16 MR. DANNER: All right.  
 17 Thank you very much. Appreciate your  
 18 comments.  
 19 Adrian Falla, are you there?  
 20 MR. FALLA: I am. Thank you.  
 21 MR. DANNER: All right.  
 22 Please go ahead.  
 23 MR. FALLA: Hello.  
 24 I'm a one-year resident of Soundview Estates,  
 25 which is a roughly two-year-old development located

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1 inside Census Tract 0900.  
 2 I have begun gathering information in recent  
 3 weeks to brief our homeowners association board, since  
 4 all of our members were surprised by the  
 5 October 22nd -- excuse me, October 2022 announcement of  
 6 a planned biodiesel peaker plant .2 miles directly to  
 7 our west.  
 8 Whidbey Seabrook developer Tenaska is angling  
 9 for a contract with PSE. We are playing catch-up, so  
 10 we are unclear where their proposal may fit in this  
 11 draft CIP. So I apologize for not being well-oriented  
 12 to the specifics of the discussion on the document in  
 13 hand. But we will catch up.  
 14 The [indecipherable] family, the site owners,  
 15 pitched the site to the developers as remote and  
 16 secluded. Their application studiously underplays our  
 17 proximity as a low-density residential zone in the  
 18 northeast, approximately .2 miles.  
 19 Soundview Estates is a development which has  
 20 241 homes built. 230-plus families have purchased  
 21 homes there, including my own. We have 269 active  
 22 registered voters. Our personal capital investment in  
 23 our homes to date is in excess of \$152 million. And  
 24 there are 99 more homes currently under construction at  
 25 Soundview West, which is even closer to the proposed

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1 plant.  
 2 I have some metrics on why our Census Tract  
 3 080900 does not deserve to be saddled with the  
 4 emissions of a 219 megawatt biodiesel peaker plant  
 5 pumping its emissions 60 feet over our heads.  
 6 Our immediate neighbors comprise a population  
 7 living in poverty at level 8 out of 10. Babies in our  
 8 vicinity are at risk for low birth weight at level 9  
 9 out of 10. In a single-parent household, that level is  
 10 9 out of 10. Overcrowded housing is level 9 out of 10.  
 11 We're 9 out of 10 for premature deaths. Our social  
 12 vulnerability to hazards overall is 8 out of 10. We're  
 13 already at level 10 out of 10 for toxic releases from  
 14 facilities on the RSEI model. And we also enjoy  
 15 proximity to not one, not two, but 3 EPA Superfund  
 16 sites.  
 17 We may well meet Department of Health  
 18 standards for environmental health disparities and a  
 19 designation as a highly impacted community. We'll be  
 20 exploring that pretty energetically in the coming  
 21 weeks.  
 22 Our census tract score is level 7 out of 10  
 23 for sensitive populations. And our downwind tract also  
 24 includes tribal lands.  
 25 Our district has historically been electorally

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1 passive, with low voting rates at level 9 out of 10. I  
 2 promise you, we're going to fix that.  
 3 Biodiesel emissions include some components  
 4 which pose known adverse health impacts and others, but  
 5 very little is known as yet. We are expecting to  
 6 develop our concerns with greater knowledge of the  
 7 airshed patterns that are modeled.  
 8 We are playing catch-up with a vengeance. And  
 9 we've already gained significant initial insights from  
 10 initial public records requests we filed with various  
 11 agencies, including PSCAA for the Seabrook application  
 12 itself, which is quite interesting.  
 13 We've obtained voter registration records, FEC  
 14 contribution histories for elected officials in the  
 15 area and so forth. We're very aware of the razor-thin  
 16 margins by which local races are decided.  
 17 I just wanted to let you know that we will be  
 18 paying close attention and getting engaged with the  
 19 Commission in every way that we can.  
 20 Thank you.  
 21 MR. DANNER: All right. Thank you.  
 22 Appreciate your comments.  
 23 That's -- let me go back to some folks that I  
 24 called on earlier who did not respond.  
 25 Jodi Blackburn-Roehl, are you on the line, and

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1 do you wish to comment this evening?  
 2 (No response.)  
 3 MR. DANNER: All right.  
 4 Gary Gooch, are you on the line, and do you  
 5 wish to comment this evening?  
 6 (No response.)  
 7 MR. DANNER: Kathy Brenniman, are you on  
 8 the line?  
 9 (No response.)  
 10 MR. DANNER: Danita Geyer?  
 11 (No response.)  
 12 MR. DANNER: And Laura, who did not  
 13 provide a last name?  
 14 (No response.)  
 15 MS. BRENNIMAN: Hello?  
 16 MR. DANNER: Yes. Who is this?  
 17 MS. BRENNIMAN: Yes, this is Kathy  
 18 Brenniman. Sorry. My -- it was muted earlier --  
 19 MR. DANNER: Oh, okay.  
 20 MS. BRENNIMAN: -- so I did respond.  
 21 MR. DANNER: Okay.  
 22 We can --  
 23 MS. BRENNIMAN: Thank you.  
 24 MR. DANNER: We can hear you. I hope you  
 25 can hear us.

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1 MS. BRENNIMAN: Yes. Great. Thank you.  
 2 Thanks for the opportunity to speak.  
 3 So my concerns are about the environment and  
 4 climate change.  
 5 The wind energy has been hailed as the least  
 6 polluting and least harmful to the environment among  
 7 the renewable energy resources. We have been told that  
 8 their greenhouse gas emissions are low, and so it's  
 9 assumed that we impact global warming climate change  
 10 the least. And when energy is renewable. So these are  
 11 significant advantages. However, there are a number of  
 12 negatives. And the number one is our threat to  
 13 wildlife.  
 14 Wind turbines are known to disrupt wildlife in  
 15 multiple ways. Wherever commercial wind farms are  
 16 located, the birds have a hard time surviving. Whether  
 17 they're small or big, Birds stand a slim chance of  
 18 surviving a direct hit with the turbine blades. And  
 19 with many turbines located in an area, it's no wonder  
 20 that the population of birds goes down.  
 21 I'm a resident of Whidbey Island, and I see  
 22 bald eagles and other migratory birds in the area. And  
 23 the continued extinction of bird species would be a  
 24 tragedy for all of us. In the US alone, the annual  
 25 bird toll estimated to be 500,000 and 700,000. This

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1 doesn't take into account the insect fatalities.  
 2 It's estimated that a single wind turbine can  
 3 kill up to 40 million insects nationally -- annually,  
 4 I'm sorry. So the impact of the insect and bird  
 5 population of a region is bound to have a negative  
 6 effect on the environment as well.  
 7 Besides the slaughter of the flying species in  
 8 the animal kingdom, large-scale wind farms disrupt the  
 9 habitat of all wildlife. When large tracts of land are  
 10 cleared for setting up a wind farm, the transformation  
 11 of the landscape can adversely affect all wildlife in  
 12 the region. Destruction of habitat, fragmentation  
 13 habitat, disruption of migratory paths, and loss of  
 14 feeding and breeding grounds can lead to a decline in  
 15 the reproductive abilities and reduction of population.  
 16 All these have a negative effect on the biodiversity of  
 17 the region, which may have a domino effect on the  
 18 environment.  
 19 And it affects local weather. The blades of  
 20 the turbine turn to generate electricity. It also has  
 21 inadvertent consequences. It creates disturbance in  
 22 the air that can have far-reaching effects on the  
 23 environment. The turbulence created by wind turbines  
 24 is known to warm up the surface temperature at night  
 25 and pull it cool it during the day. The warming can

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1 raise the temperature by up to 2.7 degrees Fahrenheit,  
 2 and cool it down by up to .7 decrease Fahrenheit. This  
 3 is from a 2018 study by Harvard University scientists.  
 4 This research supports more than ten other studies that  
 5 have observed warming near operational US wind farms.  
 6 There's also noise pollution. Though  
 7 commercial wind farms are typically located far away  
 8 from human habitation, there are instances where people  
 9 living in the vicinity of wind turbines are affected by  
 10 the sounds wind turbines produce when their blades  
 11 turn, making a whooshing sound. The generators kept  
 12 within the wind turbine also generates a humming sound.  
 13 Sound generated by large turbines can be heard up to a  
 14 mile away. And this is known to impact sleep patterns,  
 15 and at times the mental health of people.  
 16 And I personally have experienced this in  
 17 Texas. My sister has a ranch with turbines on  
 18 adjoining ranches, and the noise is unrelenting. The  
 19 value of their properties also decline drastically.  
 20 The disturbing effects of noise pollution on  
 21 animals and birds still remains unknown. And the  
 22 safety issues at sea, setting up wind (inaudible Zoom  
 23 audio). Wind turbines at sea may be a solution to  
 24 reduce its negative impact on humans and wildlife on  
 25 the land; however, it can disrupt the lives and

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1 habitats of sea creatures.  
 2 The (inaudible Zoom audio) location is another  
 3 problem. Typically wind farms are located far away  
 4 from cities and towns. Intentionally, remote locations  
 5 are chosen for setting up wind farms so that  
 6 large-scale land acquisition is possible. However,  
 7 this means paving new roads and transporting machinery  
 8 and construction material to the site.  
 9 The same is the case with offshore wind farms.  
 10 They can increase boat traffic, leading to more  
 11 greenhouse gas emissions and pollution. In the  
 12 (inaudible Zoom audio) phase, also they increase  
 13 traffic in the region and adversely impact the  
 14 environment.  
 15 The carbon footprints of turbines. The  
 16 manufacturer of wind turbines needs metals and other  
 17 materials. Collection of these raw materials as well  
 18 as the manufacturing process are often run using fossil  
 19 fuels. After manufacture, the turbines need to be  
 20 transported to the location of the wind farms.  
 21 Further, the construction of the wind farms  
 22 and the setting up of the turbines are an additional  
 23 assault on the environment. It requires 60 gallons of  
 24 oil to lubricate the tur-...  
 25 (Pause.)

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1 MR. DANNER: Did we just disconnect?  
 2 (No response.)  
 3 MR. DANNER: No? Okay.  
 4 Carol [sic] Brenniman, I'm afraid we lost your  
 5 connection.  
 6 All right. At this point that is everyone who  
 7 has signed in to speak.  
 8 Let me ask if there is anyone on the call who  
 9 has not spoken and did not sign in who wishes to speak  
 10 this evening. You can either use the raise your hand  
 11 function or simply speak up.  
 12 (No response.)  
 13 MR. DANNER: All right.  
 14 Hearing nothing, that concludes the public  
 15 comment this evening.  
 16 We have -- again, I want to make clear that we  
 17 will be receiving written comments.  
 18 Let me ask my colleagues, do we have a cutoff  
 19 date for written comments at this point?  
 20 MS. RENDAHL: Commissioner Danner, it's  
 21 usually a week after the hearing is concluded. I  
 22 believe the hearing concludes next Wednesday, the 1st.  
 23 MR. DANNER: Okay.  
 24 MS. RENDAHL: So I believe the deadline  
 25 would be the 8th in our --

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1 MR. DANNER: Okay.  
 2 MS. RENDAHL -- usual practice.  
 3 MR. DANNER: All right.  
 4 That is my understanding as well.  
 5 So we will be receiving written public  
 6 comments through February 8th. And as you can see on  
 7 the slide, here are the ways to provide comments.  
 8 MS. RENDAHL: Commissioner Danner, there  
 9 was a hand up from someone with the initials "DEK."  
 10 And I don't know if that person wished to speak or not.  
 11 I just wanted to let you know.  
 12 MR. DANNER: Okay. I do not -- I do not  
 13 see that.  
 14 Andrew Roberts, do you?  
 15 (No response.)  
 16 MR. DANNER: All right. Let me ask again.  
 17 Is there anyone on the line who wishes to  
 18 speak to us this evening?  
 19 (No response.)  
 20 MR. DANNER: Okay.  
 21 MS. BRENNIMAN: I think I was cut off. But  
 22 maybe it ran too long?  
 23 MR. DANNER: Well, I do see a "DEK" with a  
 24 hand up.  
 25 MS. KELLOGG: Hi, there.

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1 This is Devon Kellogg, DEK.  
 2 MR. DANNER: All right.  
 3 And how do you spell your name?  
 4 MS. KELLOGG: It's D-E-V-O-N, Kellogg  
 5 K-E-L-L-O-G-G.  
 6 MR. DANNER: Okay.  
 7 And do you wish to comment this evening?  
 8 MS. KELLOGG: Yes.  
 9 MR. DANNER: Okay.  
 10 MS. KELLOGG: Although I am a novice. So  
 11 I'm trying to just incorporate all of the reading  
 12 through the summary of the CEIP and listening to the  
 13 testimony.  
 14 I just wanted to just share my concerns about  
 15 meeting the climate goals of the CETA.  
 16 And just to address some of the concerns  
 17 people are having about, one, the birds, about the wind  
 18 turbines. I know that Autobahn, who is very concerned  
 19 about bird welfare, they actually support clean energy  
 20 and wind as part of that. It's just a siting issue,  
 21 where they're located.  
 22 And I know that if you're comparing that to,  
 23 like, buildings, it's a very small fraction. So  
 24 there's -- I don't want to say it's not a concern. I  
 25 just think that the bigger concern of the climate is

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1 much more applicable to the bird survival.  
 2 And the other comment I had is about the  
 3 reliability. And I'm wondering, as a homeowner and a  
 4 person who is interested in purchasing electric  
 5 vehicles and those kinds of newer technologies,  
 6 electrification. And I know that a lot of that is now  
 7 required in our state, is going to be over time, that  
 8 those offer opportunities for battery storage on site.  
 9 And that, to me, is -- I don't know if that's  
 10 considered in the CEIP or -- but I would really like  
 11 that to be part of it, for both, you know, the  
 12 making (inaudible Zoom audio).  
 13 Instead of spending a lot of time and resource  
 14 or energy and costs and resources making big battery  
 15 sites, to have distributed batteries that are going to  
 16 be pretty much in every home soon. And those  
 17 batteries, as I understand, for example, the Ford  
 18 F-150, can power a home for up to a week or more.  
 19 So these are things that I hope are being  
 20 considered, as well as distributed generation, as well  
 21 as with solar and those kinds of things.  
 22 So anyway, thank you for letting me talk as,  
 23 you know, a teacher and a parent that's not really  
 24 knowledgeable about this but has a lot of concern and  
 25 investment in having this succeed. I appreciate you

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1 listening to my thoughts.  
 2 Thank you.  
 3 MR. DANNER: Thank you.  
 4 And we very much appreciate your coming out  
 5 tonight and offering them to us.  
 6 So thank you very much.  
 7 I see another hand up. Anne K?  
 8 ANNE K: Yes. I didn't sign up to  
 9 comment. So I know you're at the end of your time. So  
 10 I humbly request a few moments for actually my husband,  
 11 Richard Leeds, here to make a comment.  
 12 MR. DANNER: All right.  
 13 ANNE K: All right. Thank you.  
 14 MR. DANNER: He is welcome to go ahead.  
 15 ANNE K: Thank you.  
 16 MR. LEEDS: I was hoping that you might  
 17 have information for the comparative environmental  
 18 impact, both in the -- in the full -- full gamut of  
 19 impacts comparing wind with -- with fossil fuels of  
 20 different types, natural gas, oil and coal.  
 21 I've certainly seen huge amounts of  
 22 devastation at the mining level, the railroad  
 23 transportation level, the refinement, the burning, and  
 24 certainly the number of wind turbines to equal -- a  
 25 fossil fuel plant is not one-to-one, so I would think

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1 that there might be something in the per kilowatt hour  
 2 or megawatt hour or hundred megawatt hour production so  
 3 that we could get a better understanding of the  
 4 comparison of the environmental damage done in the --  
 5 in the production and the full lifecycle.  
 6 And, of course, we do see how much fly ash is  
 7 used in various different places. And the dilution of  
 8 fly ash into the ground where it's distributed after  
 9 it's been used is part of that lifecycle.  
 10 So thank you very much for entertaining these  
 11 questions.  
 12 MR. DANNER: Thank you.  
 13 And could I ask, could you spell your name for  
 14 us for the record.  
 15 MR. LEEDS: Richard L-E-E-D-S. Leeds.  
 16 MR. DANNER: All right.  
 17 Thank you, Richard Leeds. I appreciate it.  
 18 MR. LEEDS: Oh, and we're -- we're big  
 19 supporters. So thank you very much for being here.  
 20 MR. DANNER: And thank you for  
 21 participating this evening.  
 22 All right. Is there anyone else on the call  
 23 who has not commented who wishes to comment this  
 24 evening?  
 25 (No response.)

1 MR. DANNER: All right.  
2 In that case, we have come to the end of our  
3 public hearing tonight.  
4 As I said, we will continue to receive public  
5 comments in writing. As you can see on the screen, you  
6 can email comments to comments@utc.wa.gov. We also  
7 have a public comment forum. And a PO Box, PO Box  
8 47250, Olympia Washington 98504.  
9 So with that, unless my colleagues have any  
10 other comments that they wish to make tonight?  
11 (No response.)  
12 MR. DANNER: All right.  
13 Hearing nothing, we will adjourn this meeting.  
14 And thank you all for participating. We  
15 really appreciate it. This is a very important part of  
16 what we do.  
17 So with that, thank you.  
18 We're adjourned.  
19 (Public Comment Hearing adjourned at 7:07 p.m.)  
20 -o0o-

1 C E R T I F I C A T E  
2  
3 STATE OF WASHINGTON  
4 COUNTY OF PIERCE  
5  
6 I, Tia Reidt, a Certified Court Reporter in and  
7 for the State of Washington, do hereby certify that the  
8 foregoing transcript of the Public Comment Hearing, on  
9 January 24, 2023, is true and accurate to the best of my  
10 knowledge, skill and ability.  
11 IN WITNESS WHEREOF, I have hereunto set my hand  
12 and seal this 31st day of January, 2023.  
13  
14  
15  
16 /s/ Tia B. Reidt  
17 Tia B. Reidt, RPR, CCR 2798  
18 NOTARY PUBLIC, State of  
19 Washington.  
20 My Commission expires  
21 5/15/2026.  
22  
23  
24  
25



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