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**NORTHWEST POWER AND  
CONSERVATION COUNCIL**



PUBLIC HEARING  
SEPTEMBER 30, 2009  
BEST WESTERN EXECUTIVE INN  
SEATTLE, WASHINGTON

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**COUNCIL MEMBERS PRESENT**

- TOM KARIER - WASHINGTON
- DICK WALLACE - WASHINGTON (VIA TELEPHONE)
- BRUCE A. MEASURE - VICE CHAIR, MONTANA
- JOAN M. DUKES - OREGON

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**PUBLIC HEARING**  
**SEPTEMBER 30, 2009**  
**BEST WESTERN EXECUTIVE INN**  
**SEATTLE, WASHINGTON**

BE IT REMEMBERED THAT, pursuant to the Washington Rules of Civil Procedure, the Draft Sixth Power Plan Public Meeting was taken before TIM BELLISARIO, Certified Shorthand Reporter, #2774, and a Notary Public for the State of Washington, on September 30, 2009 commencing at the hour of 5:32 p.m., the proceedings being reported at 200 Taylor Avenue North, Seattle, Washington 98109.

**PUBLIC HEARING****SEPTEMBER 30, 2009****5:32 p.m.**

MELINDA S. EDEN - OREGON

**MR. KARIER:** Welcome everyone. And I ask you to find a seat, and we're ready to start here. I'm Tom Karier. I'm a Washington member of the Northwest Power and Conservation Council, and we're having a public hearing tonight, as you all know, on our sixth power plan. I'm very pleased to see such a good turnout here.

To start things off, I've asked Member Bruce Measure, who is a council member from Montana, to read the statement and then you'll do introductions. Thanks.

**MR MEASURE:** As Tom said, I'm Bruce Measure. I'm a member from Montana. Welcome to the public hearing held by the Northwest Power and Conservation Council on the Council's proposed Sixth Northwest Power Plan.

The Northwest Power Act directs the Council to develop a regional conservation and electric power plan and to review that plan every five years. The Council is now engaged in its latest five-year power plan review. As part of this effort, the Council released a Draft Revised Power Plan on September 3rd for public review and comment. The Council will be taking written comment on the draft power

1 plan until November 6th. The Council will also hold public  
2 hearings like this one in all four Northwest states between  
3 now and that date.

4 If you would like to comment at this hearing,  
5 please sign in on a sheet provided for that purpose in the  
6 back of the room. You may also leave written comments with  
7 us this evening if you desire. Your comments will be  
8 recorded, placed in the Council's administrative record for  
9 the power plan review and, most importantly, considered  
10 carefully by the Council as it makes its decisions on the  
11 final power plan later this year.

12 For more information on the proposed Sixth Power  
13 Plan, including the text of the draft plan itself, please  
14 visit the Council's web site at [www.nwcouncil.org](http://www.nwcouncil.org). You may  
15 submit comments by using the "How to Comment" link on the  
16 web page devoted to the draft power plan, and you will find  
17 the notice of meetings, times and places at the same site.  
18 Thank you.

19 **MR. KARIER:** Thank you, Member Measure. And I'm  
20 also pleased we have a number of Council members here  
21 tonight. I'd like to introduce Joan Dukes, a member from  
22 Oregon, and member Melinda Eden, who is also from Oregon and  
23 chair of the power committee. And on the phone listening  
24 but not present at the moment, Dick Wallace, who is the  
25 other Council member from Washington. And welcome Dick,

1 you're there, right?

2 **MR. WALLACE:** Yes, I am. Thank you.

3 **MS. DUKES:** So, we have a good turnout of Council  
4 members. This is five of us. There are only eight Council  
5 members, so this is a very good turnout. And I'd like to  
6 turn it over next to Terry Morlan, our director of the power  
7 division of the Council, who is just going to be walking  
8 through an outline of what is in the Sixth Power Plan.  
9 Terry?

10 **MR. MORLAN:** Thanks. Welcome. We normally have a  
11 PowerPoint presentation, but it didn't look like it was  
12 going to work too well in this room. There's a handout on  
13 the back table of this. But in any case, I want to just  
14 very briefly go through some of the highlights of the draft  
15 power plan. And we're mostly here to listen to you. So  
16 what we're looking for in this power plan is a low cost, low  
17 risk energy future for the Pacific Northwest. And we want  
18 the plan to also support the implementation of the Council's  
19 fish and wildlife program, which is a part of the power plan  
20 by law.

21 Key findings. The big one is energy efficiency.  
22 We found a lot of energy efficiency that's very cost  
23 effective in the region. And in fact, if we accomplish it,  
24 it actually can meet about 85 percent of the load growth in  
25 the region over the next 20 years. It's low cost.

1           There's a graph that follows this one. I'll hold  
2 it up, that's what I'll do. If you look at that, there's a  
3 bar there that shows that conservation costs less than half  
4 of the next most cost-effective resource. So it's extremely  
5 inexpensive. It contributes to meeting peak loads as well  
6 as energy needs. And it obviously has very little carbon or  
7 fuel price risk. So it's very attractive to the system. And  
8 it's also good for creating local jobs and economic  
9 activity.

10           The next resource that shows up as most important  
11 is renewable resources. It's mostly wind in this plan. Wind  
12 is also attractive. It's cost competitive to a lot of other  
13 resources that are available. Obviously, it doesn't have  
14 the same kinds of carbon or fuel price risks similar to  
15 conservation. So that's an important resource in the plant  
16 does have challenges to integrate it into the power system  
17 because of its variable output. But we've included some  
18 thinking in the plan, and some analysis to deal with that  
19 issue.

20           Remaining needs for capacity or energy in the near  
21 term at least look like it would be natural gas is the most  
22 cost effective thing. You can get a feel for the size of  
23 these things in this sort of a rainbow diagram. You can see  
24 that conservation and renewables are by far the majority of  
25 the resources in this draft power plan.



1 We looked a lot at carbon, the carbon issues, and  
2 the risk imposed by unknown carbon policies at this point.  
3 What we find is that coal plants provide -- existing coal  
4 plants provide about 20 percent of the energy in the region  
5 at this point. But it produces over 85 percent of the  
6 carbon risk. And so that's an important finding. And  
7 obviously, what it means is that if we're going to reduce  
8 carbon emissions significantly, that has to involve  
9 something about the coal plants that already exist in the  
10 region, and how they're used.

11 We show in the analysis here, this graph, which I  
12 think you'll find interesting, we looked at a lot of  
13 different potential carbon costs or policies or phasing out  
14 coal plants, and issues like that. There are a lot of ways  
15 that we can reduce carbon emissions in the power system in  
16 the Northwest, either through pricing of carbon, through  
17 retirement of coal plants, and other policies. And so it  
18 lays out some potential here. We don't try to settle that  
19 policy, but we do lay out and show the potential for  
20 reducing carbon in the plant.

21 And so I think I'll stop there. We looked at a  
22 lot of other potential resources. We looked at the long-  
23 term as well, try to advance research and experience in the  
24 region with different kinds of technologies, like smart  
25 grids, and the potential those might have. But in terms of

1 the essence, it's basically conservation renewables and low-  
2 bid gas.

3 **MS. DUKES:** Okay. Thank you, Terry. I just  
4 wanted to quickly introduce the other staff people that are  
5 here before we start the testimony. In the audience today  
6 we have our cut executive director, Steve Crow, if you want  
7 to just raise your hand. Bill Hanaford is here, John  
8 Schirtz, Sandra Hirotsu, John Harrison, Howard Schwartz,  
9 from our Washington office. And I think that covers it. I  
10 just wanted you to be aware of who works here for the  
11 Council, and if you have an opportunity to talk to them  
12 afterwards, that would be great.

13 Because of the great number of people that signed  
14 up to speak today, we're going to have to try to hold the  
15 comments to about two minutes on average, otherwise we will  
16 be here all night. And I don't think we want to keep these  
17 people here at the end until midnight or so. So if you can  
18 hold your comments to about two minutes -- and I'll signal  
19 you once you've gone over that -- that would be very much  
20 appreciated. If you don't have enough time for your  
21 comments, we're obviously taking written comments. You can  
22 submit those through the Internet as the original  
23 statements, or you can provide it through other ways, if you  
24 need to.

25 Let's start out, the first name on the list is

1 Sara Patton. And if you want to come up and just state your  
2 name and who you're with for the record. Thanks. Welcome.

3 **MS. PATTON:** Thank you. And this may be a little  
4 gratuitous, but I'll try to go as quickly as possible and  
5 still be understandable.

6 It's my pleasure once again to address this  
7 Council. I'm Sara Patton, the Executive Director of the  
8 Northwest Energy Coalition. And from the beginning I  
9 realize this Council and the Coalition has been bound  
10 together. The Northwest Power and Planning Council, now the  
11 Northwest Power and Conservation Council, was created to  
12 carry out the aims of the 1981 Regional Power Act, notably  
13 to balance power and wildlife needs, and to meet growing  
14 regional electrical demand with cost-effective resources  
15 with the first and second priorities going to energy  
16 efficiency and renewable energy.

17 The Northwest Conservation Act --

18 **MR. MEASURE:** Louder, please.

19 **MR. PATTON:** The Northwest Conservation Act  
20 Coalition, now the Northwest Energy Coalition, formed in  
21 1981 to represent the public interest and implementation of  
22 the federal act. And we've worked closely with the Council  
23 on every power and conservation plan since then, always  
24 pushing for clean energy solutions and stressing that  
25 environmental costs need to be fully factored into resource

1 decisions, just like the Act requires. And every power and  
2 conservation plan has been better than the one before.

3 Five years ago we cheered the fifth plan that  
4 called for meeting half the new load of energy efficiency  
5 and most of the rest with new renewables. And I've got to  
6 applaud the regional utilities. The utilities in the region  
7 blew past the five-year efficiency and renewable goals of  
8 that fifth plan. So congratulations to them for doing that  
9 for us.

10 Now, we see a Draft Sixth Plan that foresees  
11 meeting all the new conventional plan with clean energy, 90  
12 percent of it new energy efficiency, according to a  
13 presentation that Tom Ekman gave just yesterday morning. And  
14 I applaud council members for taking this historic step.

15 As a region we are really starting to understand  
16 just how much bill-reducing conservation and clean renewable  
17 opportunities we truly have. The plan would capture much of  
18 it, and it is an entirely reachable and affordable goal. But  
19 I must tell you that although this draft plan has more  
20 comprehensive analysis than the Council has ever done, the  
21 plan does not go near far enough. In 1981 I don't think any  
22 of us here appreciated the working nightmare that is global  
23 warming. Now we know there is no doubt, to protect our  
24 society, all sectors must do their part to cut the climate  
25 issues that are already putting lives and habitats at risk.

1 States including this one and two others in our region have  
2 accepted their moral and fiscal responsibilities and set  
3 meaningful carbon reduction goals.

4 As we know, Congress is arguing the details of  
5 actually cutting carbon emissions by putting a price on  
6 them. Regional processes like the WCI (Western Climate  
7 Initiative) continue to move forward. Yet the Draft Sixth  
8 Plan does not show the way for the electric sector to meet  
9 greenhouse gas emissions goals. Council staff did excellent  
10 work to model futures that will reduce emissions, yet the  
11 Council has chosen to offer no direction to the region and  
12 no acknowledgement that the region should be proactive  
13 rather than reactive in addressing emissions reductions. The  
14 Council also fails to acknowledge the economic benefits  
15 occurring to the region from early action and the costs of  
16 taking no action. To be proactive and help the region plot  
17 the course toward greenhouse gas reduction -- emissions  
18 reductions, the Council would have to squarely face the  
19 issue of coal. We northwesterners like to think all our  
20 electricity comes from clean hydro power, when nearly a  
21 quarter comes from very dirty coal. Coal plants produce 87  
22 percent of the regional power systems climate pollution,  
23 just as Terry just said.

24 The Council has already determined that to meet  
25 it's share of the state's 2050 reduction target, the power

1 system would have to shed almost all of the coal that now  
2 serves the region. The Final Sixth Plan must lay a course  
3 toward an energy future that reduces greenhouse gas  
4 emissions, not just stabilizes them. Ducking this challenge  
5 would be a disservice to the Northwest families and  
6 businesses.

7           This is a moral imperative, but it's also an  
8 economic necessity. The longer northwesterners' coal  
9 dependence continues, the more our businesses and families  
10 are at risk from coming carbon restriction. It is important  
11 to note that a number of utilities in the region with  
12 significant carbon footprints, notably Idaho Power, have  
13 made emissions reduction commitments for both near and long  
14 terms. And we obviously know we're here in the Seattle City  
15 Light territory, one of the only carbon neutral utilities in  
16 the country. These features are being incorporated into  
17 their resource plans. We would expect the Council to do the  
18 same.

19           True, the Council cannot order coal plant  
20 closures, we know that. Nor can it set the price of carbon  
21 emissions. But it can straightforwardly embrace the power  
22 system's climate change responsibilities, as well as its  
23 responsiveness to wildlife already endangered by the power  
24 system whose plight is worsened by climate change.

25           As you know, this Council is charged with the

1 spectrum's full environmental costs into its resource  
2 recommendations.

3 **MR. KARIER:** Sara, if you could --

4 I'm almost there.

5 It is 2009. We can't pretend we don't know what  
6 will happen if we keep emitting carbon. The Council must  
7 accept its leadership responsibilities and help utilities  
8 transition to a clean and carbon free energy future.

9 I want to congratulate the Council on the energy  
10 efficiency analysis, the carbon efficiency analysis done by  
11 staffers that's consistent with findings of the study that  
12 we commissioned. And we understand that the exact mixture  
13 is going to be different. But the Council must not waiver  
14 from its statutory responsibility to ensure that we realize  
15 the full potential of energy efficiency, our lowest cost and  
16 best resource.

17 Again, I'm going to thank you for the opportunity  
18 to speak tonight. We've moved very far forward, and we'll  
19 be submitting written comments at the end of the period. But  
20 I also want to deliver to you a stack of postcards that we  
21 collected at the Bonnie Rait and Taj Mahal concert, of  
22 northwesterners who want to see a clean coal for the future  
23 for the region.

24 **MR. KARIER:** Thanks, Sara. Jim Rosenthal. And  
25 Fred Felleman is on deck. So Fred, if you want to come up,

1 or sit up towards the front, that would speed things up a  
2 little bit.

3 Can't hear you, Tom.

4 **MR. KARIER:** Jim Rosenthal. And if there's a Fred  
5 Felleman, if you can come up next, you can sit up front.

6 **MR. ROSENTHAL:** Hi. My name is Jim Rosenthal. And  
7 although I belong to organizations represented here tonight,  
8 I'm here representing only myself as a citizen. I reside at  
9 Beckett Point Fishing Club in Port Townsend, Washington,  
10 although I'm not really a salmon fisherman, and I might add  
11 as an aside that the name is pretty much a misnomer, since  
12 salmon are not very often caught in Discovery Bay.

13 The scenario, as I see it, is as follows: Global  
14 climate change is upon us. And many informed scientists  
15 believe that it shall be more severe, and more rapid than is  
16 currently accepted. One significant point that is rarely  
17 mentioned concerns the risks, if in the unlikely event we  
18 respond too vigorously to the challenge of global warning,  
19 our only risk is that we will lose some potential economic  
20 growth. If, on the other hand, we respond too weakly or too  
21 slowly, a more probable result, we are under great risk for  
22 massive climate disaster, and unimaginable global suffering.  
23 How does that relate to this hearing? Clearly, the NPCC  
24 Draft No. 6 Power Plan needs to do its utmost to reduce the  
25 effects of global climate change.



1 In that light, I'd like to speak in support of the  
2 following points: The draft plan must call for much more  
3 energy conservation than is currently targeted. I believe  
4 that is necessary for our economic competitiveness, as  
5 fossil fuel prices continue their inevitable rise.

6 Two, clean coal is a mirage, somewhat less  
7 substantial than the tooth ferry. We need to plan now to  
8 close all coal-fired power plants as soon as possible. The  
9 facts on global climate change make this obvious.

10 Three, salmon are a critical link in the food  
11 chain, and I include people as one of their consumers in  
12 that food chain. They're important as nutrients for forest  
13 health, a source of jobs and employment, and as well as  
14 being valuable in their own right. To encourage their  
15 recovery, the power plan should reflect the Council's own  
16 staff's findings regarding the cost of replacing the forest  
17 Snake River Dams. These dams need to go before the salmon  
18 do, before they become extinct, and not afterwards.

19 The current plan certainly is an improvement. But  
20 it needs to go further. We need a clean environment, clean  
21 energy, wild salmon and a healthy economy. And we can have  
22 them all because in the long run, the only future is a  
23 sustainable future. Thank you for giving me the opportunity  
24 to express my opinions.

25 **MR. KARIER:** Thank you.

1           **MS. DUKES:** Did Fred Felleman want to speak? He  
2 signed up, but I couldn't tell if it he wanted to speak or  
3 not.

4           **MR. GARRITY:** I'm Michael Garrity Fred asked me to  
5 fill in for him.

6           **MS. DUKES:** And that leaves Toni Potter on deck.  
7 So if you could be ready.

8           **MR. GARRITY:** Again, I'm Michael Garrity; I'm  
9 Washington Conservation Director for American Rivers.

10           I just rolled up on my bike. My comments are  
11 going to be brief. Basically, I wanted to thank the Council  
12 for including a good deal of the efficiency in the draft  
13 plan. And encourage the plan to go a little bit further to  
14 make sure that we don't just stabilize emissions, but  
15 actually reduce them by the amount that the IPCC and other  
16 experts are recommending over the next several decades,  
17 starting soon.

18           I think -- so -- and then on the fish side, which  
19 is what American rivers not surprisingly can speak to a  
20 little bit better, I think, the assumptions suffer from some  
21 of the same problems in terms of selling the region a little  
22 bit short on what it can do, not just to mitigate for  
23 climate change, but to simultaneously give our salmon their  
24 best shot at recovery.

25           I think when it comes to recovering Snake River

1 salmon, which are kind of ironically the salmon with the  
2 most recovery potential in a seriously warming world, in a  
3 warming Northwest climate because of their high elevation  
4 habitat, and considerable genetic diversity that they still  
5 have, you really need to look at the -- at some big changes  
6 to the hydro system up to and including removing the lower  
7 Snake River Dams and figure that in as part of the long-term  
8 plan. And I think that's -- and I don't think we should  
9 look at sort of climate mitigation versus adaptation as in  
10 conflict. We have the ability to do both, as the Northwest  
11 Energy Coalition's bright future report shows, we can both  
12 take the actions we need to to meet the climate change, our  
13 region's share of the responsibility for mitigating climate  
14 change, and at the same time for an affordable price.

15 Thanks.

16 **MS. DUKES:** Thank you, Toni. And you're going to  
17 have to bear with me here. But Bob, A-E-G-E-R -- okay.  
18 Good. You're next.

19 **MS. POTTER:** I'm Toni Potter. I'm one of the  
20 portfolio chairs, for climate change and energy with the  
21 League of Women Voters of Washington. And we are pleased  
22 the draft plan does not increase carbon dioxide. However,  
23 given that the League of Women Voters believes that global  
24 climate change is a world crisis, we ask you to do more.

25 We recommend more energy efficiency to replace

1 dirty coal in the plan, and we ask you to include a forecast  
2 of the carbon dioxide price increase; so utilities will plan  
3 better for that.

4 Dirty coal contributes to climate change, melts  
5 the glaciers, increases the forest fires, warms the streams  
6 and endangers the fish. Those are all great costs in the  
7 future that are coming to the Northwest. We need to do  
8 everything we can now to reduce it, that cost in the future.  
9 And energy efficiency will provide jobs, which is something  
10 that we very much need. So I ask you to chart a course for  
11 the utilities to actually reduce climate change. Thank you.

12 **MS. DUKES:** Thank you. After Bob is Jessie Dye  
13 and Robert Stagman. And then Dan Drais.

14 **MR. AEGERTER:** Good evening. I'm Bob Aegerter  
15 from Bellingham, Washington. I'm here representing my three  
16 grandsons, 21, 11, and 2, and my soon to be born  
17 granddaughter.

18 For the first time in this agency's history the  
19 draft plan calls for meeting all growth and demand with no  
20 net increase in carbon emissions and no new fossil building  
21 power plants. It sets very aggressive, but very attainable  
22 goals. But what we urgently need is actual reductions in  
23 CO2 gas production.

24 The scientific evidence is clear: Climate change is  
25 happening now. And human-caused greenhouse gas emissions

1 play a central role. Its documented effects are  
2 intensifying and will continue to intensify, particularly  
3 here in Washington, where our glaciers are disappearing,  
4 which is a major source of our water power, and where our  
5 salmon are impacted by eight different ways due to global  
6 warming. What is the purpose of all the money that all you  
7 folks have authorized to preserve salmon if we're going to  
8 let global warming destroy them.

9 Dirty coal plants serve only about 20 percent of  
10 this region's electricity needs, but directly cause more  
11 than 90 percent of the Northwest power system's global  
12 warming emissions. This draft plan, if it becomes final,  
13 would not lessen our dependence on those dirty coal plants.  
14 In fact, the plan would not reduce current regional carbon  
15 emissions at all. The draft plan fails to capitalize on the  
16 economic benefits of developing even more energy efficiency,  
17 which I believe is the lowest cost and the most immediate  
18 thing that needs to be done, and to develop more renewable  
19 energy.

20 I urge the Council to develop a revised plan that  
21 reduces our CO2 pollution in accordance with the targets  
22 established by Northwest states and the scientific  
23 community. The Final Sixth Plan must tell the region to  
24 seize the ample clean energy opportunities now. Thank you  
25 for the opportunity to speak.

1           **MS. DUKES:** Thank you. Jessie Dye. And after  
2 that, Robert Stagman and Dan Drais, and Doug Howell.

3           **MS. DYE:** Thank you. My name is Jessie Dye with  
4 Earth Ministry. As you know, Mr. Karier, there is a rally  
5 going on next store starting right now. So there's an  
6 invitation to people in the room to join the rally next  
7 door.

8           **MS. DUKES:** We'd be happy if you stayed here for  
9 the hearing, though.

10           **MS. DYE:** They'll be back in 20 minutes. I'm  
11 going to testify because I can't turn down a microphone. I  
12 work for Earth Ministry, and we represent the faith  
13 community in our state, and in our region. I'm here to make  
14 two comments to you: One is thank you. Thank you for your  
15 good work with renewables, with energy efficiency. I know  
16 this wasn't easy. You had to wrestle this issue to the  
17 ground, and you did a good job. So thank you very much. And  
18 I want you to know that the faith community is watching  
19 this, and it matters to us.

20           Secondly, I want to say to you, please take more  
21 leadership with reducing carbon pollution. That also is a  
22 very important issue to us. When I say to you I'm here for  
23 the faith community, who am I talking about? There are a  
24 million Roman Catholics in this state, and the Pope, as you  
25 may know, is incredibly green, I'm channeling him today. He

1 wouldn't come to this hearing. But seriously, he speaks  
2 over and over again about the need to protect the forest  
3 from global warming pollution. And the Bishops of this  
4 state and the U.S. Conference of Catholic Bishops are  
5 onboard. The Episcopal Church of the Diocese of Spokane and  
6 the Diocese of Olympia, which is western Washington, have  
7 taken leadership in their own parishes and buildings to  
8 reduce their own carbon footprint. They're calling it the  
9 Genesis Covenant. The Methodists in this state have taken  
10 leadership in an energy efficiency project, asking Secretary  
11 Chu to increase energy efficiency in appliances. The  
12 Lutherans, the Baptists, both southern and American, the  
13 Evangelicals -- check out the  
14 [evangelicalclimateinitiative.org](http://evangelicalclimateinitiative.org), are very much onboard that  
15 we need to take leadership in climate protection.

16 In particular, I want to mention the  
17 Presbyterians. No, this is important, because the  
18 Presbyterian Church USA has established what they call  
19 generational justice. It it's one of their profound  
20 teachings. All faiths -- Jewish, Muslim, Christian,  
21 Buddhist, otherwise -- believe we have to care for the  
22 poorest among us. But the Presbyterians have pushed that to  
23 the next level saying, not only for the poorest people  
24 living now, not only for the ecosystems that are currently  
25 in play in the world, but for the future, for our children

1 and grandchildren, as the gentleman before spoke to me --  
2 spoke to you about.

3 So I am speaking on behalf of generational justice  
4 in care for all of our children and grandchildren on behalf  
5 of the moral issues that we face with climate change. This  
6 would be your turn, your time to do this. So please reduce  
7 carbon usage in our state. Thank you.

8 **MR. KARIER:** Thank you.

9 **MS. DUKES:** Thank you.

10 **MR. STAGMAN:** My name is Robert Stagman. I'm a  
11 retired surgeon, speaking as private citizen. I want to  
12 thank you for the opportunity to speak here. My comments  
13 will be very brief.

14 I have absolutely no doubts about the urgency of  
15 the climate crisis and the human role in its genesis. At  
16 the age of 69 I'm unlikely to personally experience the  
17 worst sequelae of this crisis, but I find it unconscionable  
18 and unacceptable to pass this on to future generations in  
19 order to minimize inconvenience to this generation,  
20 including short-term retardation of economic growth. I  
21 therefore applaud the Council's emphasis on energy  
22 efficiency and new renewables. I urge the Council to exert  
23 maximum pressure for total elimination of coal as an energy  
24 source at the earliest possible time. Thank you.

25 **MS. DUKES:** Thank you.



1           **MR. KARIER:** Thank you.

2           **MS. DUKES:** Next, we have Doug Howell, then Kristy  
3 -- Kristy. And David Kerlick.

4           **MR. DRAIS:** My name is Dan Draais. I'm here  
5 speaking on my own behalf. To keep my comments brief, I'll  
6 skip the part where I said all the good things about the  
7 plan. Yeah.

8           I also want to endorse the comments of the first  
9 speaker for NWAC 100 percent. The prospect of climate  
10 change is not an excuse for keeping obsolete dams on the  
11 Lower Snake River intact. In fact, the amount of climate  
12 change actually argues in favor of breaching these dams. If  
13 salmon are to survive climate change, these dams have to go.  
14 Once they are out, salmon will be able to reach the best  
15 habitat in the lower 48 for preserving their genes and their  
16 species. Scientists give such a plan a 50 to 90 percent  
17 probability of restoring productive populations. If the  
18 dams stay, the salmon will lose their best chance to survive  
19 global warming. The lower elevation water will be warmer  
20 sooner. That water will be scarcer in the summer. It will  
21 be more likely to -- the rivers will be more subject to  
22 scouring from high volume storms in the fall and winter. And  
23 independent of climate change, the lower elevation rivers  
24 will suffer the most pressure from development and runoff.

25           Again, the higher elevation habitat in Idaho above

1 the Snake River Dams is the cleanest, coldest, least  
2 developed, best protected chunk of salmon spawning  
3 opportunity that remains to us. It is an arc. It is less  
4 expensive to remove these four dams than to keep them. The  
5 modest electricity benefits they offer to the region can and  
6 should be replaced by clean energy sources, such as the  
7 conservation you are proposing. Filling this high-elevation  
8 arc with salmon is our best insurance policy against what  
9 global warming will do to these valuable fish, and far more  
10 effective than continuing to truck the fish downstream.

11 We need to stop global warming and, while doing  
12 that, not abandon the things that matter to us. Thanks for  
13 the opportunity.

14 **MS. DUKES:** Doug Howell? Doug Howell? All right.  
15 Kristy. The only name that we've given. David Kerlick.  
16 All right. Come on up.

17 **MR. KERLICK:** I'm Dave Kerlick. I am a retired  
18 physicist. I worked many years in the Boeing Map Group, but  
19 I'm representing myself only as I'm retired.

20 First of all, I think the staff has done an  
21 excellent job, and provided a lot of know-how about where we  
22 can get to where we want to go. I think the problem is more  
23 deciding where we want to go. And I think the way we want  
24 to go is reducing CO2 pollution. And I think one of the  
25 maybe technical problems is what people call

1 externalization, and things, because they're catastrophic,  
2 they're sometimes valued at zero, and that's not a very good  
3 way of running a model, if the result is that the BC forests  
4 go up in flames or that the salmon fisheries collapse, these  
5 are enormous consequences and need to be weighed against  
6 what may be relatively small changes in other things.

7 In the report, there is a scenario that gives a  
8 zero cost for carbon. This is really not very fair. Even  
9 if there are no policies that say we have to pay for carbon,  
10 we're already paying social costs of at least \$20 at a time.

11 And Dr. Hansen from NASA Goddard has already last  
12 March or so said the price of carbon to really work should  
13 be about \$115 a ton. So I'm thinking that the ranges are a  
14 little bit low, and that could change the actions.

15 I think one of the -- the really positive things,  
16 and that ought to be emphasized is the management of the  
17 power system to provide minute-by-minute changes in response  
18 of the system, and particularly with a variable resource  
19 like wind, to add sufficient storage in the system near the  
20 wind, so that that can be stored, some of it, and used,  
21 possibly using batteries like in electric vehicles or an  
22 electric vehicle recharging stations if we go the way we  
23 probably should, and replace petroleum fuels via the  
24 electricity in batteries, for vehicles.

25 And the other maybe small point is that if we have

1 loads that are essentially thermal, we need to get them out  
2 of electricity. There's a three-fold cost in thermodynamic  
3 efficiency for using electricity to heat space. While you  
4 may not be able to do a lot in enforcing that, whatever  
5 levers you can pull are probably levers that ought to be  
6 pulled.

7           Okay. I think that's it. I would close that  
8 Benjamin Franklin said that an ounce of prevention is worth  
9 a pound of cure. And the best way to sequester carbon is  
10 not to mine it in the first place.

11           **MS. DUKES:** Tad Anderson. And next is Natalie  
12 Brandon. And then Darrell Johnson. And I hope I'm coming  
13 close on some of these.

14           **MR. ANDERSON:** Thank you for the opportunity to  
15 speak. My name is Tad Anderson. As a climate change  
16 scientist, I feel compelled to comment on the recently  
17 released draft plan. A thumbnail of my qualifications: I'm  
18 a recent Associate Professor at the University of Washington  
19 since 1994; I've co-authored over 60 publications in the  
20 climate peer reviewed climate change arena. I've taught  
21 undergraduate courses on global warming since 1997; and I've  
22 participated in writing climate change reports by both U.S.  
23 National Academy of Sciences and the Intergovernmental Panel  
24 on Climate Change, or IPCC, as we all know it.

25           Global warming in excess of 2 degrees Celsius

1 would constitute an extremely dangerous disruption of the  
2 climate system upon which the world economy and global  
3 ecosystems depend. Specific effects of crossing this 2-  
4 degree threshold are amply documented in the IPCC Working  
5 Group II Report from 2007. A pertinent question then, is  
6 what level of atmospheric CO2 is consistent with preventing  
7 a warming of two degrees or more? This depends upon climate  
8 system feedbacks which unfortunately are not so well known.

9           However, the IPCC has performed careful  
10 evaluations of this question, and the 2007 report of Working  
11 Group III indicates that a CO2 must be stabilized at or  
12 below 400 parts per million, if we're to have at least a 50  
13 percent chance of preventing this 2-degree Celsius warming.

14           Now, we are currently at 386 parts per million,  
15 and rising at 2 PPM per year. You're looking at something  
16 like a seven-year timeframe, therefore.

17           Clearly, we do not have multiple decades to figure  
18 out how to bring emissions down. They must be brought down  
19 very rapidly. It's especially incumbent upon those of us in  
20 the developing world to figure out how to do that. To  
21 stabilize CO2 concentration anywhere near 400 parts per  
22 million will require that global emissions be reduced by 50  
23 percent over the next 40 years; that's global emissions.  
24 And to do this will require in turn that developed nations  
25 like the United States reduce emissions on the order of 80

1 percent. These are the requirements for protecting the  
2 planet from the risk of massive climate disruption.

3           Clearly, these requirements dictate that the  
4 process of reducing carbon emissions must begin right away,  
5 and the reductions must be very substantial within the next  
6 two decades. A 20-year power plant in the Northwest which  
7 fails to call for substantial reductions in CO2 emissions is  
8 not in my judgment a plan that responds to current  
9 scientific understanding of the threat of climate change.  
10 And I would be happy to clarify these comments by e-mail or  
11 any other means. And here they are in writing. Thank you  
12 very much.

13           **MS. DUKES:** Thank you. Natalie Brader?

14           **AUDIENCE MEMBER:** Brandon. She's not here. I'll  
15 go grab her.

16           **MS. DUKES:** Darrell Johnson. And then Steven  
17 Anderson. And then Matt Huran.

18           **MR. JOHNSON:** Thank you. I'm Darrell Johnson. I'm  
19 just representing myself and my son here today. But I would  
20 like to just make two points with you. I am not a  
21 scientist. But as a young lad in Montana, I grew up just a  
22 stone's throw from the Clark fork of the Columbia River. We,  
23 at that time, just dumped raw sewage into the river, as we  
24 did during -- throughout much of the country. And it took  
25 awhile, but we figured out that, though cheap, it was not --

1 or though inexpensive, it was not cheap. That we paid a  
2 high price for doing that.

3 And I submit to you that that's exactly what we're  
4 doing today with coal. Whether we -- the way we mine it, or  
5 when we burn it and we live in its waste, that unlike what  
6 the coal industry is saying, that there's clean coal, which  
7 we all know to be a myth, number one. But number two,  
8 saying we have vast resources and that it is cheap, I  
9 suggest to you it is inexpensive, but it is not cheap. And  
10 that whenever you're looking at any kind of analyses on  
11 coal, full costing needs to be the approach used. And I  
12 think it would argue pretty readily for moving to other  
13 sources of electricity.

14 And then one final comment, very brief, about  
15 salmon. I hear them just referred to as fish often,  
16 particularly by the right wing. And I think of them as an  
17 essential part of the culture of the Northwest. They are an  
18 essential ecological element in both fresh and saltwater,  
19 and they're a very important part of the economy, whether  
20 looked at from recreational fishing or commercial fishing,  
21 it doesn't matter. But they're really an essential part of  
22 what the Northwest is about. And to diminish that is really  
23 morally indefensible. We can do much better.

24 And finally, I just want to applaud you about the  
25 opening comments about the focus on energy conservation, and

1 also renewables. I think that's exactly the way to go. And  
2 I applaud you for that effort. Thank you.

3 **MS. DUKES:** Steven Johnson. And then Matt Huron,  
4 and Peter Brehm. Joseph Bogaard.

5 **MR. HURON:** Hi. My name is Matt Huron. I'm 26  
6 years old, and I've been living in Washington for about  
7 almost eight-plus years. It's been awhile. The Northwest  
8 is now my home. It's the place I work and pursue the things  
9 I love to do. And it just so happens that my job is in  
10 renewable energy, and my passion is fishing for salmon  
11 steelhead.

12 The Northwest has been a lighthouse for successful  
13 renewable energy policy. As a senior project coordinator  
14 for a consultant to the wind industry, I've seen my company  
15 double in the last year, and this includes growth during our  
16 economic downturn and tightening of financial markets. I've  
17 witnessed firsthand the decisions and targets set forth by  
18 the NPCC and how they increased clean, renewable energy in  
19 the Northwest and have spurred job creation, such as my own.

20 When I'm not working, I frequently drive to Oregon  
21 to fish. During these times when I'm driving out there, I  
22 get to see all of my hard work come to fruition. I get to  
23 see all the wind farms going up that I've basically worked  
24 on since their conception. However, what I don't see is the  
25 return of our salmon steelhead to some of our region's



1 rivers.

2 I'm here to urge the NPCC to do more and go  
3 farther to formulate a plan to take into account our  
4 region's fishing opportunity and our salmon steelhead  
5 economy. With 13 endangered stocks of salmon and steelhead,  
6 there is definitely a need for improvement. And the  
7 committee can take the reins of leadership on both energy  
8 and cost effective salmon leadership.

9 I believe in a final plan moving forward. I  
10 really think we should take a strong look at the Lower Snake  
11 River Dams and possibly breaching them as dams. So far the  
12 Columbia Basin River salmon restoration, sealife  
13 restoration, has been really, really expensive and not  
14 really effective. By looking at removing these dams as our  
15 best recovery option, I think we can balance our region's  
16 energy needs, and also the needs of fish and wildlife.  
17 Basically, I'm selfish when it comes to fishing; I like to  
18 catch a lot of fish. And I believe in the Northwest we can  
19 definitely have it all. We can have clean energy, wild  
20 salmon, and a healthy economy and environment. But it will  
21 only happen with great leadership such as yourselves. I  
22 guess that's all I got. So please, thank you.

23 **MS. DUKES:** Thank you. Are you Peter? Oh, great.  
24 Come on over. And Joseph Bogaard and Heather Rhoads-Weaver  
25 and Barbara Rhoads-Weaver.

1           **MR. BREHM:** Good evening. My name is Peter Brehm.  
2 I'm the Vice President of Business Development and --  
3 relations of Infinia Corporation. Infinia Corporation is  
4 the Northwest's only complete solar power system  
5 manufacturer, and one of the largest solar power companies  
6 in the Northwest. Thank you for the opportunity to make the  
7 comments here today.

8           First and foremost, I want to compliment the  
9 Northwest Power Conservation Council for proposing a plan  
10 that foresees expected load growth in the Northwest to be  
11 almost entirely met by efficiency and renewable energy. Ten  
12 years ago, that would have been a revolutionary plan.  
13 However, much has changed in the last ten years. Our  
14 current situation requires much more aggressive action.

15           First and foremost, the plan must assume -- any  
16 new plan must assume -- the complete phasing out of dirty  
17 coal plants in the Northwest as soon as possible. This will  
18 require much more aggressive energy efficiency and renewable  
19 energy generating goals. It is entirely unrealistic,  
20 however, to assume that all the new renewable energy  
21 generation in the Northwest will be wind power.  
22 Intermittency, seasonal and grid issues argue for much more  
23 aggressive utilization of other renewable energy resources,  
24 particularly solar.

25           The Northwest's solar resource is generous, much

1 larger than most realize, and easily captured. It is also  
2 counter-cyclical and very complimentary to the Northwest  
3 wind resources. The Northwest solar resource is obviously  
4 greatest in the summer, at the same time the Northwest wind  
5 resource is the weakest. The Northwest Power and  
6 Conservation Council's Sixth Power Plan is a unique  
7 opportunity to promote the development of renewable energy  
8 and energy efficiency technologies and products in the  
9 Northwest.

10           The energy industry is changing dramatically.  
11 Energy is changing from an extraction-based industry, the  
12 mining of coal, pumping of oil and gas, to a manufacturing-  
13 based industry, with economic value generated when the  
14 renewable energy generates product or an energy efficiency  
15 product is manufactured. Recognizing this dramatic change  
16 in the energy industry, the Northwest Power and Conservation  
17 Council's Sixth Power Plan must promote the obsolescence and  
18 elimination of carbon-emitting energy sources and replace  
19 them with renewable energy and energy efficient technology  
20 and systems, particularly those developed and manufactured  
21 in the Northwest. A power plan that merely promotes the  
22 implementation of wind turbines and solar panels from China  
23 and Japan is of little economic benefit to the Northwest.

24           In summary, we urge the Northwest Power and  
25 Conservation Council to adopt the plan that obviates the

1 need for carbon-emitting power and related technologies, and  
2 replaces and provides for the expected load growth by  
3 deploying a balanced portfolio of renewable energy and  
4 energy-efficient technologies, particularly those developed  
5 and manufactured locally in the Northwest. A power plan  
6 that promotes wind as the only renewable energy resource is  
7 not realistic; such a plan primarily benefits European and  
8 Indian wind turbine manufacturers, and does nothing to  
9 promote the manufacture of energy technologies in the  
10 Northwest. Thank you.

11 **MS. DUKES:** Thank you. Joseph Bogaart. Great.  
12 And then Heather Rhoads-Weaver and Barbara Rhoads-Weaver,  
13 and Robert Cromwell? Okay.

14 **MR. BOGAART:** Good evening, and thank you for the  
15 opportunity to come and speak here this evening to you  
16 around the Draft Sixth Power Conservation Plan. My name is  
17 Joseph Bogaart, I'm here representing the State of Idaho  
18 Salmon Coalition, which is a broad coalition of  
19 organizations and businesses working to restore salmon and  
20 steelhead to healthy harvest and abundant numbers in the  
21 Pacific Northwest.

22 Thank you again for hosting the hearings here.  
23 This is a critical plan coming at a critical time. And as  
24 you can see, there is a lot of people in this room and  
25 outside of this room with me, who are concerned about the

1 development of the region -- our region's energy policies,  
2 our fish and wildlife policies, and the profound  
3 implications they have for our way of life here in the  
4 Northwest, and with the intensifying effects of global  
5 warming with our way of life beyond the Northwest.

6           And as others have this evening, I want to thank  
7 the Council for what is the best and most progressive and  
8 forward-looking plan to be produced. It's quite an  
9 accomplishment. This is absolutely the right direction to  
10 move in, and it's the kind of plan that many in this room  
11 have been working towards and asking for for years.

12 Unfortunately, times have changed, and are continuing to  
13 change. And we now clearly understand how burning fossil  
14 fuels like coal affects our climate. These changes are  
15 costly and disruptive excuse me -- these changes have  
16 costly, disruptive and dangerous implications to our food  
17 and water, our jobs, the economy, our families and  
18 communities, as well as the salmon and steelhead of the  
19 Northwest and other creatures that we depend on and share  
20 this planet with.

21           You probably all saw the article last week in the  
22 "Washington Post," spotlighting a new broad analysis that  
23 reflects how climate-driven changes in our environment are  
24 occurring even faster than previously thought. We need a  
25 sixth power plan that reflects today's best scientific

1 information. And I don't think the current plan does that.  
2 Given what we know, we need a final power plan that moves us  
3 farther and faster than the draft. And this is what -- a  
4 couple of points -- this is what the final plan should do.  
5 And I'll start just by saying, start with the sort of the  
6 bottom line, which is, in the Northwest, the State of Idaho  
7 Wild Salmon Coalition is committed to a future and working  
8 with others in the region to create a future where we can  
9 still have it all -- clean, affordable energy, wild,  
10 abundant salmon, a healthy economy and environment -- while  
11 at the same time living up to our region's obligations to  
12 reduce our carbon footprint, and reduce our fair share to  
13 stop and eventually reverse global warming. Our region can  
14 do this.

15           And the final version of the Sixth Power Plan must  
16 chart a course that moves us forcefully in this direction.  
17 In order to achieve this, the Sixth Power Plan must increase  
18 the draft plan's energy conservation targets. Others have  
19 mentioned this, I think, today, and I'll just sort of leave  
20 it at that.

21           Second, the final plan needs to chart a course for  
22 real and effective salmon recovery. Salmon are a Northwest  
23 icon. They're an irreplaceable national treasure. They're a  
24 valuable natural resource that support tens of thousands of  
25 jobs in this region and across the coast. They have also

1 received extremely poor treatment as a result of the impacts  
2 from the federal dams in the Columbia Basin. Scientists have  
3 consistently found that the removal of the four Snake River  
4 Dams is the best and perhaps the only way to protect and  
5 restore abundant runs in the basin. Reconnecting this  
6 imperiled fish to the largest, wildest and best protected  
7 upland habitat, upstream from these dams, represents  
8 probably our nation 's best salmon restoration opportunity.  
9 And I think the Council has responsibility in protecting and  
10 restoring -- well, the Council does have a responsibility  
11 for protecting and restoring fish and wildlife populations  
12 harmed by the power system. And this is your great  
13 opportunity to live up to that responsibility.

14           Toward this end, the final --

15           **MR. KARIER:** Do you want to start wrapping it up?

16           **MR. BOGAART:** I've only got a little bit here.

17           The power plan should reflect the findings of the  
18 Council and staff, that replacing the energy produced by the  
19 four dams with clean, renewable energy would cost far less  
20 than has been suggested by salmon recovery opponents. And  
21 that the Snake River Dam remains the most effective option  
22 for the region to finally protect and restore healthy runs  
23 of salmon and rebuild the jobs that rely on them.

24           Finally, as there is this analysis that was done  
25 by staff on the cost of replacement of energy at the Lower

1 Snake River Dams, I know the staff has also completed some  
2 analysis on the costs and process for closing down coal  
3 plants. And I would encourage likewise the Council include  
4 that analysis and help move the region forward in terms of  
5 having -- setting some explicit goals about the fact that we  
6 need to not only stabilize our carbon footprint here in the  
7 Northwest, but we need to start reducing it.

8 To close, wild salmon and clean energy are  
9 birthrights of the Pacific Northwest. Strong action by this  
10 Council as you finalize this Sixth Power Plan can assure  
11 that we have an abundance of both for ourselves and for the  
12 generations that follow. Thank you for this opportunity.

13 **MS. DUKES:** You must be Heather.

14 **MS. HEATHER RHOADS-WEAVER:** Thank you. My name is  
15 Heather Rhoads-Weaver. I'm with eFormative Options, which  
16 we specialize in forming and advancing sustainable ventures,  
17 in particular distributed energy resources. So I'm going to  
18 be addressing that in particular today.

19 But first I'm going to sound a little bit like a  
20 broken record. Because I do want to thank the Council for  
21 moving in the right direction. However, I agree that it  
22 doesn't go quite far enough. So, you know, the impressive  
23 savings that are outlined in the three scenarios are great.  
24 However, I would really like to see a little more aggressive  
25 option embraced, that would really promote economic



1 development in this region and take advantage of this  
2 important window of opportunity for creating jobs that we  
3 really need here.

4           Especially in light of today's announcement with  
5 the EPA on emissions controls, the importance of net excess  
6 generation, especially -- is especially critical in phasing  
7 out the dirty coal plants, and taking out the four Lower  
8 Snake River Dams. This will begin to reduce the really  
9 devastating effects of these high-energy impact technologies  
10 and help us move to the next phase.

11           One point I wanted to make about the mid-term  
12 review. I think, keeping the option open of actually  
13 increasing the targets at that point, depending on how  
14 things are going, would be really helpful. But I'm worried  
15 about letting the utilities off the hook, if they're falling  
16 short. So that just was a red flag for me, that there could  
17 be things that happen, such as with the federal stimulus  
18 funding. Right now here in Washington State we have a  
19 really exciting community energy efficiency pilot program  
20 that could really grow into a region-wide market approach,  
21 with whole neighborhoods doing retrofits and using a  
22 community organizing model. And I think that could really  
23 take off. So we don't really want to sell ourselves too  
24 short.

25           There was very little discussion, I found, on

1 distributed generation energy plans. I would like to see a  
2 little bit more talking about on-site generation, such as  
3 small-scale wind, community wind, community-scale wind, and  
4 solar. And just as the voluntary green car market has been  
5 able to leverage private dollars, and has resulted in almost  
6 as much, if not more, renewable generation as the portfolio  
7 standards have to date, this is a very important way of  
8 leveraging private dollars and building our grid to benefit  
9 all rate payers. So I think that really warrants a little  
10 more review.

11 Wind and solar power that's produced at the point  
12 of use avoids a lot of impacts, and the need for firming,  
13 integration, and balancing resources. So these can also  
14 help delay or avoid new transmission line upgrades.

15 Also, I didn't see --

16 **MR. KARIER:** Are you close to wrapping it up?

17 **MS. HEATHER RHOADS-WEAVER:** Yes. I didn't see  
18 much of an in depth review of the coming electrification of  
19 vehicles in the transportation sector. So as more  
20 households and fleets move into that, linking electric  
21 vehicles with on-site generation will help make a really  
22 dynamic network of the smart grid, and lead to the region  
23 really positioning itself to take advantage of this, rather  
24 than getting left behind or being taken off by the load  
25 growth.

1 Just very quickly, two specific references, and I  
2 can submit these in writing. On page 6-14, the discussion  
3 of distributed generation really didn't recognize the  
4 economies of scale with broad uptake. And the table on page  
5 6-42, the pricing for solar at \$9 a watt is very outdated.  
6 I'd like to see that updated, because prices of solar have  
7 come down in the past year dramatically. Distributed wind  
8 was left out of the scenario; its missing. It is somewhat  
9 higher cost than utility scale wind, but also has higher  
10 value.

11 So in conclusion, I'd just like to see a little  
12 more action steps spelled out from the Council, and not  
13 leaving it to legislators or Congress; just setting more  
14 ambitious targets and showing leadership to drive our clean  
15 economy forward. Thank you for your time.

16 **MS. DUKES:** Barb. And next is Robert Cromwell.  
17 Then David Banks and Ed Henderson.

18 **MS. BARBARA RHOADS-WEAVER:** Hi. My name is  
19 Barbara Rhoads-Weaver. Thank you for the opportunity to  
20 speak this evening. I'm an attorney at Sustainable Law. But  
21 I'm here speaking as a private citizen. And I recognize  
22 that this draft plan does take a progressive step forward in  
23 not creating new carbon emissions, but I echo the calls to  
24 go further. We know that without taking steps, that we're  
25 likely to suffer climate impacts, such as more serious

1 floods, harsher droughts, more intense forest fires, and  
2 negative impacts on our water supply, especially here in the  
3 Northwest, where much of it is dependent upon snow pack and  
4 runoff patterns that change with climate change.

5 And not to mention, I think others know more  
6 about, and have spoken about the impacts on our salmon and  
7 other natural beauty and creatures that we want to protect.

8 So I encourage and ask the Council to do more to  
9 chart a course to get rid of sort of, it seems like in the  
10 Key Findings, that they got, in order to make significant  
11 reductions in CO2 emissions, you need to address and reduce  
12 the energy from coal. So having made that key finding, I  
13 think its important for the Council to then act on it. I  
14 mean, I appreciate that you've made the finding, but I'd  
15 like to see something in the final plan that does something  
16 about it.

17 And it seems as though there are some things that  
18 could be done by, you know, it seemed like there was a  
19 minimal cost impact on rates to shutter those plants  
20 earlier. But we see a much bigger reward from doing so by  
21 the impact we can have on the climate.

22 And it seems as though by making that change, we'd  
23 also be investing in, and helping to revitalize our regional  
24 economy by transitioning to an energy portfolio that  
25 generations to come will benefit from.

1 So I appreciate you for listening to our comments  
2 and urge you to act on that key finding. Thank you.

3 **MR. KARIER:** Thank you.

4 **MS. DUKES:** Robert?

5 **MR. CROMWELL:** Good evening, Council members. My  
6 name is Robert Cromwell, and I'm the Acting Director of  
7 power contracts and resource acquisitions at Seattle City  
8 Light. I'd like to thank the Council for this opportunity  
9 to address you this evening, and I'll refrain from saying  
10 all the good things that have been said already by others.

11 I do want to let you know that we do support the  
12 direction that the Council has taken in the draft plan. And  
13 one thing I would like to say, is to express our thanks to  
14 the Council's director and your staff, for their willingness  
15 to engage directly with the Northwest utility industry, the  
16 openness and the transparency with which they've been  
17 willing to discuss the methodological assumptions that  
18 they've been using, and to really deeply engage on some of  
19 the, I guess generally speaking, eligible framework that's  
20 represented by the analysis reflected in the plan, and the  
21 conclusions that they've reached, has been very helpful, and  
22 I think is something that we look forward to continuing,  
23 both through the finalization of the plan and through its  
24 implementation thereafter.

25 With that, I will say that we will be filing

1 written comments where we do have specific issues with  
2 either suggested edits, or perhaps questions about some of  
3 those methodological assumptions that we've discussed with  
4 Mr. Moran in the past, that we'd like to have the Council  
5 consider before adopting that final plan.

6 With that, I'll say thank you.

7 **MS. DUKES:** David Bangs. And then Ed Henderson,  
8 Sameer Ranade, and Chris -- no, Chris didn't want to  
9 testify. Okay.

10 **MR. BANGS:** Well, I want to thank you for coming  
11 to Seattle. And my name is David Bangs, and I'm Founder and  
12 President of Home Performance Washington, which is an  
13 association of energy auditors and home performance  
14 contractors. And I serve on the board of Efficiency First,  
15 a nationwide organization of 500 companies and organizations  
16 dedicated to retrofitting America's homes.

17 And so Efficiency First would be very pleased to  
18 see 85 percent of the demand growth being met by  
19 conservation. But my purpose in presenting is to give you  
20 reason for hope that you can go with an even more aggressive  
21 conservation stance, through innovation-empowering business,  
22 and the power of investment.

23 Efficiency First has been working with Congress on  
24 a provision called the Retrofit For Energy and Environmental  
25 Performance, which, as part of the House climate bill that

1 passed, provides benefits of up to \$4,500 per home if 30  
2 percent of energy is modeled to be saved, and \$3,000, if 20  
3 percent is saved. We need to be working on retrofits that  
4 achieve the absolute lowest possible gains from each home.

5 In Washington State, we've had a long tradition of  
6 utility retrofits that focus on the low-hanging fruit of  
7 doing things like applying insulation with air sealing, or  
8 applying Energy Star furnaces without duct sealing. And it  
9 doesn't require much imagination that if you're only  
10 acquiring a little bit of saving per home, that you'll  
11 eventually run out of homes, and there will be a lot of  
12 conservation, and somebody will say, oh, we just can't  
13 conserve more.

14 But if you focus on a whole house approach -- air  
15 seal, duct seal, ventilate and do everything as a system --  
16 you can achieve reductions of 20 percent to much higher in  
17 cooling load per house. And we think that that would be  
18 incredibly cost effective, especially as shown by the  
19 climate bill, if you consider the cost of the avoided  
20 carbon, and not just the cost of the avoided energy in the  
21 analysis. We need to reduce our carbon emissions by 80  
22 percent by 2050, and we're not going to get there without  
23 thinking in new ways and finding more ways to innovate and  
24 spur business.

25 So through my association with the national

1 network of contractors, I know that if given the right  
2 incentives, some of the largest insulators and companies  
3 that do energy in the country would change their business  
4 practices and respond to those incentives by dramatically  
5 improving the way that they deal with each home. And so --  
6 and Puget Sound Energy locally has stepped on the bandwagon.  
7 They're about ready to launch their own Energy Star program,  
8 increase their expenditure on conservation by 30 percent,  
9 and introduce a whole house package of incentives. I think  
10 if other utilities did that, then you could look around at  
11 your numbers and come up with a little bit more for  
12 conservation. So thank you.

13 **MR. KARIER:** Thank you.

14 **MS. DUKES:** Ed Henderson.

15 **MR. HENDERSON:** Good afternoon. I'm Ed Henderson.  
16 I'm speaking this afternoon on my personal behalf. Is that  
17 picking up on the mic?

18 I'm a retired professional civil engineer. I've  
19 spent a great portion of my career building electric power  
20 plants. My wife and I have lived here in Seattle for over  
21 20 years. We settled in the Pacific Northwest largely  
22 because of the natural beauty of this area. For the past 15  
23 years I've been actively involved as a volunteer studying  
24 the regional power system. I have evaluated the planning by  
25 the Northwest Power Council and by BPA, always trying to



1 balance the need for clean and affordable energy with the  
2 protection of the environment.

3           Sadly, planning in the past has fallen far short  
4 of protecting the environment in favor of cheap power. The  
5 Draft Sixth Power Plan is by far the Council's best to date.  
6 I applaud the emphasis on conservation and renewable  
7 resources to meet future demand. But I believe the plan and  
8 the actions that follow can and must do even more. Capping  
9 carbon emissions at the current level will continue to add  
10 to the atmospheric load of CO2 which is largely responsible  
11 for global warming. The Sixth Power Plan should set more  
12 aggressive goals for energy conservation in the near term.  
13 That's the next five years.

14           Increased energy efficiency, recovery of  
15 conservation resources, will allow the early closure of  
16 polluting coal-fired power plants. Replacing the dirty  
17 power from coal plants with clean conservation and all  
18 renewables, will virtually eliminate the power system's  
19 emission of greenhouse gas. The Final Sixth Power Plan must  
20 address the protection and recovery of salmon in the  
21 Columbia River Basin. This responsibility is mandated by  
22 the Northwest Power and Conservation Act of 1980.

23           For far too long, the protection of fish and  
24 wildlife has received short shrift in favor of cheap power.  
25 The Sixth Power Plan is obligated to include an honest

1 evaluation of the cost of removal of the four Lower Snake  
2 River Dams, along with an estimate of conservation and  
3 renewables needed to replace their power production.

4 And I would like to thank the Power Council for  
5 making this opportunity available for comment. Thank you  
6 very much.

7 **MS. DUKES:** Sameer? Bill Dickens. Come on up.  
8 And then Eric Michelman. And Stan Price. Welcome.

9 **MR. DICKENS:** Thank you, Madam Chair, fellow  
10 Council members. My name is Bill Dickens. I'm a senior  
11 economist at Tacoma Power, and I've worked in the area of  
12 power management. Tacoma Power appreciates the opportunity  
13 to comment on the Council's Draft Sixth Regional Power Plan  
14 tonight.

15 Tacoma Power considered two key criteria when  
16 reviewing the draft plan. First, does the plan recently  
17 reflect the lack of challenges facing utilities in the  
18 analysis balanced. Second, will the projected long-term  
19 increase in energy costs result in undue hardship for our  
20 utility rate payers. Based on these criteria, Tacoma Power  
21 is generally pleased with the draft plan. It is  
22 comprehensive and addresses many of the issues we've been  
23 concerned about. We are particularly pleased to see that  
24 the draft plan address the role of -- obligations and the  
25 Washington public utilities, the Council's conservation

1 methodology, the methodology that Washington utilities must  
2 comply when working with our recent obligations. And  
3 finally, for long-term effects of conservation targets.

4 Now, we have already been in the process of  
5 developing more written and precise comments that we will be  
6 sharing at a later date. Given the scarcity of time, this  
7 is my abbreviated comments for this evening. Thank you very  
8 much.

9 **MS. DUKES:** Thank you. Eric Michelman. And then,  
10 Stan Price and Jim Adcock.

11 **MR. MICHELMAN:** Hi. I'm Eric Michelman, President  
12 of the Cascade Base Research Corp. You know, I worked in  
13 Silicon Valley in its early days. I worked at Intel when it  
14 was a small fraction of its current size. I worked at Apple  
15 before it was a public company. I raised major capital,  
16 started software companies. It was a wonderful time. It  
17 was an amazingly prosperous time.

18 The renewable energy industry today is very  
19 similar to that place in time. It's got the same  
20 opportunity and the same potential; the same vast  
21 opportunity and the same vast potential. There's no  
22 question that just as computers were the largest growth  
23 industry of the second half of the 20th Century, clean  
24 energy, renewable energy, energy efficiency will be the  
25 biggest growth industry in the first half of this century.

1 The Northwest can be a leader in this; it can be a  
2 huge economic opportunity for us. But our policy majors  
3 have to play a part and lead. Carbon regulation is coming,  
4 everyone agrees. If we get out ahead of this, we'll be in a  
5 much better position to lead the industries that will be  
6 built on it. I urge you to aggressively incorporate carbon  
7 reductions into your plan for these and many other reasons.  
8 Thank you.

9 **MS. DUKES:** Thank you. Stan Price.

10 **MR. PRICE:** Thank you. Good evening. I'm Stan  
11 Price. I'm the Executive Director of the Northwest Energy  
12 Efficiency Council. We're an industry association  
13 representing efficiency companies in the Northwest. Thanks  
14 for the opportunity to comment.

15 I have some written comments here, and I will  
16 spare you the recitation of those. If I may just be able to  
17 just focus in on a couple of three points briefly with you.

18 First, the Efficiency Council supports the  
19 conservation goal of 1,200 average megawatts that's in the  
20 draft plan. We think it's an aggressive goal, but we think  
21 its an achievable one. So we applaud the Council, and its  
22 staff for the analysis that went into it. And clearly the  
23 efficiency industry stands ready to partner with utilities  
24 across the region in order to accomplish, not only that  
25 goal, but perhaps exceed it.

1 We're implementers. And so we're interested in  
2 the action plan. And so if I could actually focus on a  
3 couple of three points within the action plan for the  
4 balance of my comments, I would appreciate it.

5 First, we certainly agree with virtually all of  
6 the points that are made in the action plan. It's a good  
7 document. We certainly agree that energy savings, going  
8 forward, despite the fact that there are more of them, will  
9 be harder to get. The era of the compact fluorescent light  
10 bulb is over, as it's acknowledged there. Although, I do  
11 want to point out that seven years ago CFLs didn't seem like  
12 easy conservation savings. They were expensive; they didn't  
13 fit fixtures; and you couldn't find them anywhere. So a  
14 combination of the region's efforts to work with market  
15 intervention-based programs, to work in supply chain  
16 management, to work with manufacturers, in combination with  
17 aggressive utility programs, actually accomplished turning  
18 what was a difficult thing to do into something that we're  
19 now deeming to be really easy. So we need to take that  
20 lesson and apply it to a host of other technologies and  
21 practices, where we're working in combination with both  
22 market-related activities and aggressive utility programs,  
23 and creative program designs to work with customers in order  
24 to make a host of other kinds of technologies and practices  
25 that today seem very hard to do, and five years from now,

1 consider them to be easy.

2 We want to also focus in on the fact that the  
3 action plan rightfully calls for an investment in the region  
4 in making sure that new technologies are in the pipeline. So  
5 focusing in on some research and demonstration projects,  
6 vetting those technologies, and coming up with energy  
7 savings that could be measured and verified and then applied  
8 into utility programs so we can employ those technologies  
9 that are really important.

10 There was not enough of an element in the plan,  
11 however, to talk about operations and behavior-based savings  
12 an as a significant growth opportunity per energy savings  
13 beyond just hardware and technology. We encourage the  
14 Council and the region and the region's utilities to think  
15 about that as a significant resource.

16 **MR. KARIER:** Are you getting close to wrapping it  
17 up?

18 **MR. PRICE:** I am. So this is my one -- and this  
19 is actually the thing that we're most -- we feel is most  
20 important. And that's the focus in the calculation and the  
21 methodology, which is described in the action plan, that  
22 derives the 1,200 average megawatt figure. And this is this  
23 notion of achievability in -- there's no more significant  
24 variable in the analysis in our view that leads to the  
25 calculation of how much efficiency is really available. And

1 the discussion in the action plan on achievability rightly  
2 focuses on a number of infrastructure-related issues, how  
3 well can we create and design and implement programs, and  
4 how effectively, particularly in the efficiency industry,  
5 bolt those measures into the ground. But it misses one very  
6 important calculation. And that's the notion of the role of  
7 the customer, the role of the market here. The  
8 achievability fractions that are used in the methodology  
9 assume over the next ten years, that customers will 50  
10 percent of the time make the wrong decision when placed with  
11 the notion of making it a otherwise self-interested  
12 financial decision in energy efficiency. That is something  
13 that should actually be unsettling to us all. And it means  
14 that there are a number of market dislocations that are out  
15 there that are causing people to make decisions that aren't  
16 in their financial self-interest.

17 We know a lot of those market dislocations. But  
18 we collectively need to work harder to figure out what those  
19 are, and to work to dismantle some of those dislocations, so  
20 take 1,200 average megawatts is not only achieved, but  
21 exceeded. And we look forward to working with the Council  
22 and the region's utilities in order to accomplish that.  
23 Thanks so much.

24 **MR. KARIER:** Thank you.

25 **THE RAGING GRANNIES:** We are the Raging Grannies,

1 and we are next. It takes us one minute.

2 You need a little --

3 **MR. KARIER:** We'll make an exception here.

4 **THE RAGING GRANNIES:** You have no choice.

5 **(The Raging Grannies sing "No More Coal," sung to**  
6 **the tune of "Side by Side.")**

7 **MR. KARIER:** Thank you. Could you please say your  
8 name. Could you come back up. For the record, could you  
9 please state your name.

10 **MS. LORIMER:** We're The Raging Grannies of  
11 Seattle. I'm Jean Lorimer.

12 **MS. KAYE:** Sue Kaye.

13 **MS. KIPNESS:** Glenda Kipness (phonetic).

14 **MS. MORRISON:** Shirley Morrison. And there are  
15 Raging Grannie groups all over the world.

16 **MR. KARIER:** Thank you.

17 **MS. DUKES:** And to follow that, Mr. Adcock, would  
18 you like to come forward. And then Richard Smith, and Scott  
19 Elliot.

20 **MR. ADCOCK:** I could despair at following that,  
21 but I will use it as a segueway instead.

22 My name is James Adcock. I'm an electrical  
23 engineer, MIT. I'm speaking today on behalf of the Seattle  
24 Mountaineers, an organization of 10,000 outdoors lovers. We  
25 are also known for playing a leading role in the formation



1 of many of the Pacific Northwest national parks, one of  
2 which is dead already due to global warming. I will use the  
3 previous presentation as a segueway to a little show-and-  
4 tell I have here. The LED light bulb pays for itself in a  
5 year. One penny a month would make this the electricity  
6 that feeds this thing clean, okay? The windmills that the  
7 power companies have to install to make the clean  
8 electricity for this light bulb costs one-half as much as  
9 the light bulb itself, okay? So why can't we do it?

10 Twenty years ago we would have been very happy  
11 with this report. Today we know we have 20 years to get off  
12 coal in the United States. Okay?

13 In your analysis, you assume that cap and trade  
14 prices will be low enough that you can keep coal power  
15 plants. The way cap and trade works is by setting carbon  
16 prices high enough that you are forced to get rid of coal  
17 power plants. So there's an inconsistency in your analysis.

18 We would also like the staff to take a close look  
19 at something called the Pacific Decadal Oscillation, which  
20 is a feature of our oceans, which has been helping keep  
21 Pacific Northwest cool. But over the next few years, a  
22 shifting phase, to where it will be raising the temperatures  
23 of the Pacific Northwest about two degrees. That's enough  
24 to kill the salmon fry in our rivers. It will fry our  
25 salmon fry. Because of this, we are recommending that you

1 get rid of the Lower Snake Dams.

2 To the two great nations, the United States and  
3 China, each by itself emit enough CO2 that scientists say  
4 that CO2 is enough to destroy the planet.

5 We are surprised when we read the Council report,  
6 that the report assumes that either one of two possibilities  
7 is going to happen; either that carbon legislation is going  
8 to happen, or the Lower Snake Dams are going to be removed.  
9 The report does not consider the possibility that both will  
10 happen. You are telling us effectively that either you will  
11 support the Endangered Species Act or you will support the  
12 Clean Air Act, but not both. We don't believe Bonneville  
13 has that choice. We believe both have to be supported. We  
14 love the focus placed on this plan on conservation, but  
15 we're concerned that conservation, as a term, may just  
16 become environmental happy talk. What conservation really  
17 means in the context of this plan is utilities and  
18 Bonneville spending enough money to buy conservation from  
19 businesses and consumers.

20 Further, when we read this report, we find that  
21 you count factory fish, not wild, spawning salmon. We  
22 believe the health of our salmon and our rivers is best  
23 represented by the count of naturally-spawning fish, not  
24 factory fish.

25 Here's a few things that we think are more important

1 than a penny a kilowatt: Free-flowing rivers; our children  
2 and grandchildren being able to walk on the beach, rather  
3 than standing behind a concrete, or a riff-raff dam, holding  
4 back the rising oceans. We think our national parks are  
5 worth more than a penny. We think skiing, kayaking, hiking,  
6 climbing on snow and glaciers, even just looking at  
7 glaciers, is worth more than a penny. Not watching people  
8 die in storm surges, rising sea levels, flash flood river  
9 snow melts, not watching people die in summer heat waves. My  
10 Aunt Patty died in a summer heat wave in Seattle a few years  
11 ago. It's already happening. Reducing the threat of war  
12 between the United States and China as each points its  
13 fingers at the other.

14 Finally, we believe it's the very lives of our  
15 children and grandchildren that we're talking about, or one  
16 penny a kilowatt. Thank you very much.

17 **MS. DUKES:** Richard Smith. Is there a Richard  
18 Smith here? All right. Scott Elliott. And then Brian  
19 Grunkenmeyer, and Bill Robinson.

20 **MR. ELLIOTT:** Good evening. I'm Scott Elliott.  
21 I'm Vice President of Engineering for Mountain Logic. We're  
22 a startup manufacturer of residential HVAC controls.

23 The Council has done an admiral job of identifying  
24 opportunities for meeting our anticipated energy needs  
25 through efficiency. And the staff deserves a big thanks for

1 a job well done. But we'd do much better to improve the  
2 economic and environmental climate in the Northwest to  
3 substantially increasing efficiency.

4 The just announced EPA, DOE, Energy Star and Super  
5 Star programs, which are rapidly -- the advances are  
6 occurring in efficiency, and also the associated risk  
7 reduction from advancing technology.

8 To speak specifically to the plan, on page 4-6,  
9 the plan mentions residential HVAC savings of \$60 per  
10 megawatt hour. There are alternative residential forced air  
11 technologies on the horizon for a fraction of the cost, \$45,  
12 down to \$15 per megawatt hour, to pick just one area. These  
13 technologies will come online if there is the support to  
14 drive the market and signals to the venture community to  
15 invest in those markets. Without significant support to  
16 guarantee these markets, these technologies will not make it  
17 off the engineer's bench.

18 With the Council's support, we see these  
19 technologies being developed and launched in the Northwest,  
20 creating a new family wage industrial base for the  
21 Northwest. In a broad sense, the plan greatly  
22 underestimates the opportunity for efficiency gains in the  
23 residential sector, and overestimates cost.

24 So the plan should be revised to reflect a much  
25 greater possibility for energy savings in the residential

1 area.

2 On a separate point, the plan must also not allow  
3 for mid-term downward revision in efficiency. Such an  
4 opportunity would be self-defeating and self-fulfilling, and  
5 the plan should be altered to only allow for increases in  
6 deficiency targets in the mid-term.

7 I urge the Council to support employment in the  
8 economy and the environment in the Northwest by  
9 substantially increasing efficiency targets. Getting this  
10 job done helps us you all. Thank you for your time.

11 **MS. DUKES:** Brian. Come on up. Then, Bill  
12 Robinson and Scott Veirs.

13 **MR. GRUNKEMEYER:** Hello. My name is Brian  
14 Grunkemeyer. I live in Redmond, Washington. And I'm very  
15 happy to be here. Thank you for coming to listen to us all  
16 chat.

17 Also, thank you to the Council staff. Their  
18 copious analytical abilities are very well regarded. And  
19 rightfully so.

20 However, you guys have made an amazing amount of  
21 forward progress with this plan; the conservation goals are  
22 great. However, this plan is inadequate to the challenges  
23 of our time. We need to step up and reduce our carbon  
24 dioxide emissions. This is a society-wide problem, of  
25 course. We will be working on moving towards electrifying

1 our transportation grid. That is half of our CO2 emissions  
2 here in Washington State.

3 The challenge for you, as this Council is, coal is  
4 the biggest target. Its the easiest thing for us to change  
5 as a society. And its probably going to be the most cost  
6 effective thing for us to go after. So I don't see any  
7 reason to not make forward progress on removing all of the  
8 coal plants in the Northwest.

9 So the interesting challenge then becomes, what's  
10 stopping us? What's in the way? And I realize that there  
11 are some states that may view this as maybe a little bit  
12 counter to their goals. I know that, you know, Montana does  
13 have the Powder River Basin, and there is a lot of coal  
14 there. However, I've read Jared Diamond's, "Collapse,"  
15 which details the environmental and economic problems going  
16 on in Montana's Bitter Root Valley. I really feel for that  
17 state. I understand there are problems there. However,  
18 relying on coal as income for that state is, in my opinion,  
19 not the best thing to do.

20 Instead, we should view this as an opportunity.  
21 Renewable energy, I believe, is going to end up being  
22 divorced from the price for normal fossil fuel-based power.  
23 The fact that we have passed renewable portfolio standards  
24 in 24 of our states, suggests that the price of renewable  
25 energy is going to go up significantly more than the price

1 of fossil fuel-based energy within the next ten years or so.  
2 This is an excellent opportunity for Montana do harness its  
3 copious wind power, and transmit it both to, you know,  
4 states like Washington and Oregon with high renewable  
5 portfolio standards, and also to the great State of  
6 California, where the Governor of that state has just upped  
7 his requirements for renewable -- this is an opportunity for  
8 the entire region. This is not going to be a real painful  
9 detriment to us. And if there's some cost mechanism that is  
10 necessary to help the low income users in certain states,  
11 let's go after that. There's no reason to not do that.  
12 Let's be creative there and let's do some thinking.

13 So in short, I don't see any reason to not make  
14 any forward progress on removing coal from our regional  
15 power supply. Thank you very much.

16 **MR. KARIER:** Thank you.

17 **MS. DUKES:** Bill?

18 **MR. ROBINSON:** Well, thank you very much. My name  
19 is Bill Robinson. I'm a former Trout Unlimited staffer,  
20 former Executive Director of the Washington Council of Trout  
21 Unlimited. I've been asked to read this statement to you on  
22 behalf of those organizations.

23 First of all, TU is the nation's leading cold  
24 water fishery conservation with over 140,000 members, and  
25 many of whom live in the Pacific Northwest -- Washington,

1 Idaho, Oregon, Montana -- areas you're pretty familiar with.

2 First, a hearty thank you. Thank you for  
3 proposing to meet the region's future energy needs for the  
4 next two decades through investments in energy conservation  
5 and clean renewable resources.

6 This proposal marks the first time the Council has  
7 recommended meeting all the region's future energy needs  
8 without reliance on greenhouse' gas emitting energy sources.  
9 And you deserve to be commended for it.

10 However, given the urgent need to reduce  
11 greenhouse gas emissions to prevent catastrophic global  
12 warming, we urge the Council to take this policy further in  
13 the plan's final version. The sixth power and conservation  
14 plan must provide our region with explicit recognition of  
15 the need to immediately begin reducing greenhouse gas  
16 emissions below existing levels.

17 The important progress the Council has  
18 demonstrated in its support of energy conservation and  
19 renewables is unfortunately not evident in the plan when it  
20 comes to protecting salmon and steelhead resources of the  
21 Columbia Basin. With global warming upon us, creating  
22 greater challenges for the basin's salmon and steelhead, we  
23 need visionary leadership to move these magnificent and  
24 economically valuable fish from their present beleaguered  
25 state to healthy, fishable levels. That leadership has



1 largely been absent in the region, and the Council should  
2 step into that leadership void by showing how the region can  
3 take bold action to recover salmon and steelhead in the  
4 Snake River Basin, while meeting the region's energy needs.

5           There is only one action that has the potential to  
6 dramatically increase wild salmon and steelhead populations  
7 in the basin, and that is the removal of the Lower Snake  
8 River Dams and restoring unimpeded access to and from  
9 thousands of miles of habitat into central Idaho and  
10 northeast Oregon, with reliable, climate change models  
11 showing that a dammed Lower Snake River will have water  
12 temperatures during the summer that will kill salmon and  
13 steelhead, now is the time to provide credible information  
14 about the cost of replacing the energy provided by the Lower  
15 Snake Dams and clean energy sources. We respectfully  
16 request that Council leadership -- the Council leadership on  
17 this critical issue.

18           We are not asking that the Council take a position  
19 on dam removal. Rather, we are asking it to use its staff  
20 expertise to provide decision makers with high quality  
21 information that will enable an informed, timely decision  
22 about the Lower Snake River Dam removal.

23           The draft plan should be revised to include this  
24 essential information so that the major progress toward  
25 restoring wild salmon and steelhead can be made.

1 Thank you for your time and consideration.

2 **MR. KARIER:** Thank you.

3 **MS. DUKES:** Scott Veirs. Not here? Okay.

4 Aaron Robins. And then after Aaron, Dan Morris.

5 And Anastasia Schemkes.

6 **MR. ROBINS:** Hi. I'm Aaron Robins. I'm a  
7 volunteer with the CR Club, although I'm speaking on behalf  
8 of myself today.

9 I want to thank the Council for taking the time to  
10 do these hearings. And I particularly want to thank your  
11 staff for the fantastic job they've provided, the wonderful  
12 analytical data for energy wonks like me, who want to be  
13 able to go through that and parse it and figure out what our  
14 system really looks like.

15 And I think addressing global warming is a moral  
16 imperative, and I think it needs to be addressed  
17 aggressively and urgently. But frankly, I'm here to talk  
18 about money.

19 There's a lot of great stuff in this plan. There's  
20 a lot of great data about efficiency; there's a lot of great  
21 data about fuel prices; there's a lot of great data about  
22 renewable portfolio standards and all of that wonderful  
23 stuff. But a huge part of the draft plan is, frankly, a  
24 guessing game about the price of carbon.

25 No one in this room knows what carbon is going to

1 cost in 20 years. I don't know. Puget Sound Energy is just  
2 now finishing up their integrated resource plan for 2009.  
3 Their best guess is \$130 a ton. That frankly seems pretty  
4 reasonable to me. It might even be low. One thing that's  
5 abundantly clear is that the price of carbon represents the  
6 greatest risk to our system, the greatest risk to our rate  
7 payers all over the Northwest. Fortunately, there is a very  
8 easy, simple, cost effective way to virtually eliminate that  
9 risk, and that's the planned retirement of coal-fired power  
10 plants throughout the Northwest. We can do it safely, we  
11 can do it responsibly. We can replace the energy with  
12 renewables in conservation and natural gas, all of which  
13 create more jobs and more economic activities than those  
14 coal plants.

15 Now, we don't know what's going to come about for  
16 the price of carbon, but we know its coming. It may be done  
17 through cap and trade; it may be done by the EPA. They just  
18 proposed their draft rules today on regulating carbon from  
19 power plants. It might be done by the Western Climate  
20 Initiative or it might be done at the state level. But it's  
21 going to be done, and those coal-fired power plants are  
22 going to close down.

23 We have a couple of options. We can close them in  
24 a planned manner, where the jobs are replaced with better  
25 jobs, and the resources are replaced and the power is

1 replaced, and the conservation and the renewables are in  
2 place to do it. Or we can wait around, we can let them  
3 close by themselves, sporadically whenever they become too  
4 expensive, like when carbon hits \$90 or \$100 a ton, and if  
5 owners of those plants decide its not worth it and they shut  
6 down, and we end up buying our power on the spot market and  
7 rates go through the roof. And that's not acceptable.

8 So I want to encourage the Council to look  
9 seriously at the data and look seriously at what we're  
10 planning to do. We need a responsible plan to close those  
11 plants in a timely manner and get the risk out of our  
12 system. Because ultimately, the coal-free scenario is the  
13 least cost, least risk scenario. Thank you.

14 **MR. KARIER:** Thank you.

15 **MS. DUKES:** Dan Morris.

16 **MR. MORRIS:** My name is Dan Morris. I'm a mostly  
17 retired environmental engineer. I've inspected over 4,000  
18 buildings in my career. And I think there's one thing that  
19 has not been mentioned at all about coal fire plants. The  
20 carbon dioxide is what produces global warming. But those  
21 plants produce the most pollution of anything in this  
22 country, of any industry; that includes arsenic, chromium,  
23 lead, hydrogen chloride, mercury, ash, soot, and about 20  
24 other particles in gases which are harmful to people.

25 My son, who is healthy, but a little bit

1 sensitive, moved to Beijing, and after three years he had  
2 trouble breathing. And I was there twice. And if you  
3 looked around at the air, and that city is the most polluted  
4 city on the planet, and they use -- almost all of their  
5 energy is from coal.

6           So I want to expand the consideration beyond the  
7 global warming, which is an important one, to look at what  
8 impact the coal fire has, not just on people, but on acid  
9 rain and on the plants and on the flora and fauna of the  
10 region. And I've also worked in energy efficiency, solar  
11 and sustain built. And I think there's something, that  
12 although you don't set rates, that we need to bring up to  
13 the table. Is that all these incentive plans for  
14 conservation and renewable energy are real excellent and  
15 well thought out. But there's one plan which would make it  
16 much more effective, much faster, and much simpler. And  
17 that is to greatly change the rate structure to make people  
18 who use very little, pay very little. People who use a lot,  
19 pay a lot. And therefore, the ingenuity, and people's  
20 concern about their own bottom line and what they pay, will  
21 come up with all kinds of new ways of saving energy that  
22 won't require a lot of complex incentive plans. It will  
23 happen all by itself.

24           So I want to thank you, in closing, I think you've  
25 done a good job. And I agree with everything that's been

1 said. I think we're heading in the right direction. But I  
2 think the Northwest has a chance here of setting the  
3 standard for the country. The Northwest and the Northeast  
4 are the two most sustainable areas of the country. And we  
5 have a chance of saying, we can go carbon neutral; we can  
6 get rid of all our coal-fired plants first in the country.  
7 It would be a great star on all of your caps. Thank you.

8 **MS. DUKES:** Anastasia. Dave Warren. Patrick  
9 McNally. And next is JP Kemmick.

10 **MR. McNALLY:** I'm Pat McNally. 10,000 years ago, right  
11 here where we're sitting, the ice was about close to a mile  
12 high. Nothing I've heard here is suggesting you're going to  
13 restore this to what it should be. I sent an e-mail to Tom  
14 Karier and the other Washington representative. I asked you  
15 to walk across the Seattle Center. Did you do that? I  
16 asked you to go look at Seattle's big original solar  
17 project. Its kiddy-korner at the far end of the Seattle  
18 Center. It's a boondoggle. It was pitched as a 2-kilowatt  
19 thing. I never saw a number bigger than 1.25, and for the  
20 last couple years all I've seen is zero.

21 Anyway, in that e-mail, I put it out to you, coal  
22 oil and gas will be the world's primary sources until we run  
23 out. That's pretty much what I have to say. Except that I  
24 mentioned the -- back solar briefly. They made two trips up  
25 the Hubbell to replace solar panels.

1           **MR. KARIER:** Okay. Thank you.

2           **MS. DUKES:** JP Kemmick. Donna Albert. Alan  
3 Hamlet. And next is Susan Taylor.

4           **MR. HAMLET:** My name is Alan Hamlet. I work with  
5 the Climate Impacts Group with the University of Washington.  
6 I'm speaking largely for myself, though, today.

7           The plan does a very nice job of identifying no  
8 regret strategies that are cheap and environmentally  
9 responsible and address the global warming problem. But  
10 there's several shortcomings in the plan with regard to  
11 global warming.

12           In the first place, there's a lack of scenario-  
13 based planning in the report. We continue to use historic  
14 records when we have projections which much more accurately  
15 reflect the situation that we see coming in the horizon of  
16 the plan's forecast horizon. And in particular, I think by  
17 not encompassing the warmer temperatures and changes in  
18 stream flow timing that we expect to see, we are  
19 underestimating the impacts to salmon, and some of the  
20 challenges that we face in terms of meeting summer demand,  
21 in particular in the Pacific Northwest. This is a need that  
22 I think can be addressed. Our planning Council has the  
23 expertise and the resources to do this as it should be done,  
24 and actually made a start in the Fifth Power Plan, which was  
25 not carried through in the Sixth. So I was disappointed to

1 see that.

2 The second point I'd like to make is, the basis of  
3 the power planning Council's planning strategy is to look  
4 forward 20 years on a five-year recurring interval. And I  
5 would argue that that timeframe is too short to understand  
6 what is likely to happen in terms of the true costs, in  
7 particular, related to global warming. The kind of impacts  
8 that we expect to see at the end of the 21st Century, which  
9 is of course well outside of this planning horizon, are  
10 where I think many of us are really frightened by what we  
11 see. So I would also argue take it's not about cost, and  
12 it's not about the economy in the Pacific Northwest. This  
13 is a problem, in my view, we have to solve regardless of  
14 cost. So placing it in the context of what's cheapest, and  
15 what makes sense in that context, what makes sense for the  
16 Pacific Northwest economy, fails to address, I think, a very  
17 important thing, that we just have to deal with this  
18 problem, and we have to do so as rapidly as we can, and no  
19 matter what it costs. And I think that will become apparent  
20 as we go forward. But its not part of the thinking behind  
21 the plan. Thank you.

22 **MR. KARIER:** Thank you.

23 **MS. DUKES:** Susan Taylor.

24 **MS. TAYLOR:** Thank you. My name is Susan Taylor.  
25 I'm here as a private citizen, and as a mom. I'm here to



1 urge the Council to adopt a plan that would reduce global  
2 warming emissions and that would establish a roadmap for  
3 eliminating coal-generated power in the Northwest. While  
4 coal generates 20 percent of our region's electricity, it  
5 causes -- it creates 90 percent of our power system  
6 emissions. It's time to be more aggressive about  
7 eliminating coal. Coal plants cause global warming, and  
8 they're also dangerous to human health. The mining,  
9 transportation and burning of coal, as well as the handling  
10 of coal waste is dirty. I understand that the Council's own  
11 staff has found that coal power could be eliminated with  
12 fairly minor rate adjustments.

13 I think given all of that, it's time for the  
14 Council to take the lead on this issue. That's it. Thank  
15 you very much.

16 **MS. DUKES:** Thank you.

17 **MR MEASURE:** Thank you. Ms. Albert.

18 **MS. DUKES:** Next is David Ban Holden.

19 **MS. ALBERT:** My name is Donna Albert. I'm a  
20 licensed civil engineer with a Masters degree in civil  
21 engineering. I'm working as an energy engineer for the  
22 state of Washington. But I'm not here for my employer, I'm  
23 here for my grandchildren, Austin, Donovan, Terence and  
24 Christian, who will be in their 40s and 50s in 2050, and may  
25 be looking then --

1 So from the Sixth Power Plan overview on pages 5  
2 and 6, significant reductions of carbon emissions from the  
3 Northwest power system require reduced reliance on coal,  
4 which currently emits over 85 percent of the carbon dioxide  
5 in the regional power system. A carefully coordinated  
6 retirement and replacement of coal-fired generation with  
7 conservation, renewable generation at lower carbon emission  
8 resources, could reduce carbon emissions to 35 percent of  
9 1990 levels.

10 I was encouraged to see that you investigated  
11 scenarios which retire coal-fired generation with  
12 conservation and renewable generation.

13 The report states that the carbon emissions can be  
14 reduced to 35 percent of 1990 levels. By what date could  
15 coal plants be closed? 2025 is too late, especially if we  
16 don't have a plan to reduce transportation emissions quickly  
17 within the next few years. You have a plan to close coal  
18 plants, but do you have a plan to close them quickly enough?  
19 The UNEN climate -- 2009 says that actual warming since the  
20 IPCC's 2007 synthesis report has exceeded all the scenarios  
21 they used in their 2007 report, including the business-as-  
22 usual scenario, and appears to be accelerating. The recent  
23 economic downturn slowed this, but the trend is expected to  
24 continue on recovery.

25 Climate scientists are now recommending more

1 aggressive emissions reduction, sometimes expressed in terms  
2 of atmospheric concentrations of greenhouse gases of 350  
3 parts per million or less. I believe that the goal of  
4 reducing emissions to 1990 levels by 2020 is no longer in  
5 line with what we know about climate change. How are you  
6 prepared to respond when the state of Washington or the EPA  
7 requires that your plan is updated in light of more current  
8 recommendations by scientists?

9 Another question: Are you looking at the big picture?  
10 In 2020, 2030, 2040, and 2050 how much of our carbon dioxide  
11 emissions will come from electricity, how much from natural  
12 gas used for heating, how much from transportation, and so  
13 on? Not only should there be a plan to reduce greenhouse  
14 gas emissions for electricity to zero by 2050 or sooner,  
15 but there will have to be a plan to replace natural gas used  
16 for heating with something else, and our current  
17 transportation fuels with something else. If that something  
18 else is electricity, your plan should account for the extra  
19 load.

20 Electric vehicles can be charged off peak, but  
21 replacing natural gas with electric heat or some other  
22 source of energy may be a bigger challenge.

23 So what I am suggesting is you should have a plan  
24 to retire all the coal-fired plants within a very short  
25 time, using energy conservation. Your 20-year plan should

1 be the first stage of a longer-term plan for zero emissions  
2 electricity by 2050 or earlier. You should not wait for  
3 five years to update your plan, but continuously update it  
4 to meet new goals as they are identified.

5 I'm also suggesting that your 20-year plan and the  
6 longer-term plan that's a part of it should be coordinated  
7 with transportation and heating fuel requirements.

8 Also, the previous person who spoke expressed  
9 concern about trying to analyze this -- you're put in this  
10 position by the way you were asked to do the report -- but  
11 you're asked to use an economic analysis in this sort of  
12 very unique situation, where we need to act quickly to do  
13 something totally different that we've never done before. So  
14 I don't know how to tell you what to do with that. But  
15 maybe if you can recognize that, and I will keep talking to  
16 my government about that.

17 **MR. KARIER:** Excuse me. Are you close to wrapping  
18 it up?

19 **MS. ALBERT:** Yes. Sorry. Last sentence: Think  
20 about how much hydroelectricity we have in the Northwest,  
21 what a mild climate we have west of the Cascades, how much  
22 great sunshine we have east of the Cascades, what a  
23 materially and economically rich country we live in. We're  
24 in a position to show this can be done. We must do this. We  
25 must retire our coal plants. Thanks.

1           **MR. KARIER:** Thank you.

2           **MS. DUKES:** David Van Holden. And after --

3           **MR. VAN HOLDEN:** Thank you very much, Council  
4 members, for the opportunity to speak. I have about 20  
5 years in the energy industry, with a number of utilities and  
6 research firms. However, I'm speaking on my own behalf in  
7 this case.

8           My first point to you, and I think I'd like to  
9 make it strongly, is this is a scenario which is far more  
10 deep and challenging than the situation that caused the  
11 creation of the Power Council in 1980. At that point we  
12 were simply looking at an energy crisis. At this point, we  
13 are looking at literally an environmental crisis that  
14 threatens a future generation. So I urge you to stand back  
15 and consider the gravity of the situation in comparison to  
16 the one that caused the formation of the Power Council  
17 initially.

18           The second point I'd like to make is, as I breezed  
19 through your Sixth Power Plan which I found to be quiet nice  
20 reading, thank you, I was struck by something that several  
21 people have noted, which is the balance between risk and  
22 cost. There are a couple scenarios here which really give  
23 us a major impact on carbon dioxide, those are the coal  
24 retirement scenarios.

25           But what's also interesting is that they really

1 don't cost that much. The impact that we're being asked to  
2 bear as rate payers, you know, on our monthly bills, is  
3 really not substantive enough to compare on a risk-to-cost  
4 benefit ratio with the value of 14 million -- what is it --  
5 14 million tons of carbon dioxide retired per year for the  
6 indefinite future, you know, for the rest of the future. So  
7 I'm sorry if I wasn't real articulate, but I think its real  
8 for that you deeply consider that cost benefit relationship  
9 in regards to risk and the gravity of the situation that  
10 you're in. This is not business as usual, and it won't be  
11 business as usual going forward. Thank you very much.

12 **MR. KARIER:** Thank you.

13 **MS. DUKES:** Bonnie Frye Hemphill. And then --  
14 Justin -- a hyphenated last name, the last part of it is  
15 Redding. Great.

16 **MR. ROLFE-REDDING:** Fantastic. My name is Justin  
17 Rolfe-Redding. Seattle Light was here today, I saw an op-ed  
18 in the paper, that mentioned this hearing yesterday, so I  
19 thought I would come down and share my views. I'm certainly  
20 not an expert on these issues. But I do know that we have  
21 very few opportunities in our society to make long-term  
22 planning decisions. Of course, that's what this process is  
23 all about. And so I think it's an important moment for us  
24 to contemplate what the future is going to hold.

25 Once these planning decisions are put into place,

1 they're difficult to change them, they're set. So we  
2 encourage you all to think long and wisely about these  
3 choices, and what our situation is going to look like in 20  
4 and 30 years, what the climate is going to look like, what  
5 the policy environment is going to resemble, and plan for  
6 that future. You know, look ahead and not into the past,  
7 because many have said, Coal is the past. And obviously,  
8 we're not debating the signs of climate change today. But I  
9 think it's important to see sort of the climate of public  
10 opinion going forward on this. I'm a graduate student and  
11 instructor and teaching assistant, and so I work with  
12 college-age students all the time, in classes on public  
13 speaking. And for them, the debates over climate change are  
14 long gone. It's a settled issue. Opinion is clear amongst  
15 college students in this day and age. This is an issue that  
16 we have to address and deal with. And I think those views  
17 in our public are only going to crystallize as we move  
18 forward.

19 So take that into account and consider how we can  
20 reduce our emissions 80 percent in the next 50 years.  
21 There's only one way we can do that, and that does not  
22 involve using coal. Thanks so much.

23 **MR. KARIER:** Thank you.

24 **MS. DUKES:** Michael Foster. And after Michael,  
25 Ben Sibelman, and Genevieve Vayba.

1           **MR. FOSTER:** Hi. I just finished reading a really  
2 good book called "Hot, Flat and Crowded," by Thomas  
3 Friedman. It's a New York Times guy, and he's a good  
4 writer, and he's won a couple of prizes over the years. But  
5 it's a really good book. It's really inspiring. It's also  
6 very terrifying. But it was a page-turner. And it was  
7 published in August of '08, as the campaign was winding up.  
8 And it's funny, because some of the stuff in there sounds  
9 like, you know, stuff I've heard Obama saying from the  
10 podium, right, about the clean energy plan for America.

11           The other thing that's funny about the book a year  
12 later is that some of it is already outdated. And so  
13 anyway, I really recommend it. I find it a great read.

14           The other thing I wanted to tell you about, I'm a  
15 private citizen here in Seattle, and I'm driving an  
16 electrified vehicle. I'm driving a little Geo Metro that I  
17 paid somebody to rip the guts out of it put in some  
18 batteries and a little electric motor, and I can drive it  
19 around town and go home and plug it into my wall. And it's  
20 so fun. And my little girls are so excited about it, they  
21 love getting into it and driving around town. It's a lot of  
22 fun. And once a month I go down to the Seattle Electric  
23 Vehicle Association meetings, and I hang out with a bunch of  
24 old curmudgeons who stand around and talk about things I  
25 don't understand about electricity and connectors and



1 mechanics, and they complain about the state of the world.  
2 But there's a couple hundred of them, a couple hundred of  
3 these guys hanging out once a month, bothering each other to  
4 tears. And when they say, How many of you are here for the  
5 first time? Half of the room raises their hand. So in  
6 other words, there's like 100 new guys coming through this  
7 boring meeting every month in Seattle. And we don't have  
8 any electric cars yet. These are guys who are, like me,  
9 kind of desperate who'd like get off of gas and CO2  
10 emissions, and just want to be able to drive electric. And  
11 so they're trying to do this in their backyard.

12           There's going to be an incredible demand for  
13 electricity. The Nissan Leaf arrives in Seattle next year,  
14 and I'm signed up to drive one of those electric cars, if I  
15 can. And I buy green power from Seattle City Light. So I  
16 pay an extra, I don't know how much, I don't really care.  
17 I'm not paying enough. I wish my bill was higher. It can't  
18 be enough. I've put some insulation in the house. I bought  
19 the electric car. My electric bill went down \$75. I don't  
20 understand why it's so cheap. I should be able to pay more.

21           I'm all excited about this community solar pea  
22 patch idea, like my house is no good for solar, but  
23 apparently there is a program somebody is going to come up  
24 with and I'm going to be able to go in with some neighbors,  
25 and you know, like we have little pea patch community

1 gardens. I'm going to be able to do this. I'm going to be  
2 able to go in with some neighbors and start with some solar  
3 array on somebody's house that faces the right direction.  
4 And I'm really excited about that. I'm actually trying to  
5 decide right now if I can invest in college for my girls,  
6 like saving for my girls' college, or if I should invest in  
7 some clean tech company here, because apparently a lot of  
8 our clean tech companies are being like -- or the industries  
9 are being bought off towards China or the European Union.  
10 And I'm trying to think, which would be a better investment  
11 for their future, if I give them a college education, or if  
12 I give them a region that they can like live in and work in  
13 and breathe in?

14           And so I'm thinking I might invest in clean tech  
15 and see what happens. Maybe there will be a job for them to  
16 go to after college, I don't know. So I'm thinking about  
17 these things. And I'm aware that I don't have a lot of  
18 power when it comes to where my power comes from. That as a  
19 community, we're going to get it from wherever you guys let  
20 us get it from. And I hope that you'll think of ways for me  
21 to pay some kind of premium or a deluxe bill, you know, so  
22 that somebody else can have cheaper power or something. But  
23 I'm really happy to invest and do whatever I can so that my  
24 kids have a plan that they can live on. I hope that you'll  
25 do everything you can as quickly as you can. Thank you.

1           **MR. KARIER:** Thank you.

2           **MS. DUKES:** Ben Sibelman. And Genevieve, after  
3 that. And then Barbara Zepeta.

4           **MR. SIBELMAN:** Okay. My name is Ben Sibelman. I'm  
5 a software development engineer at Microsoft. I'm speaking  
6 on my own behalf, however. And I thank you very much for  
7 giving me the opportunity to speak here. I don't have a lot  
8 of facts and figures, unfortunately.

9           What I have is just the general overall story,  
10 which is that according to the IAPCC, the world has to level  
11 off carbon emissions and start decreasing them in six years.

12           So we're at the precipice, people. I do this sort of  
13 thing because I'm trying to prove that despair is not the  
14 correct response to a desperate situation. Alivia Butler,  
15 a science fiction writer who unfortunately died prematurely,  
16 who lived in Seattle, once wrote: "We can all do the  
17 impossible, if we can convince ourselves that it has been  
18 done before."

19           Seattle is the place where the U.S. Mayors Climate  
20 Protection Agreement was created, and now 900 cities across  
21 the nation have basically signed up to the protocol, despite  
22 the fact that the nation itself has not. We can do this.  
23 We can be the place where things begin. The thing we have  
24 to do is find the place to stand and the lever that moves  
25 the world. Basically, we have to -- another way of putting

1 it is, we have to drop the pedal that starts a green  
2 avalanche. And if we can just like narrow this down to  
3 closing one coal-fired power plant in the Northwest where we  
4 get a small fraction of our energy from coal, then moving on  
5 to the goal of actually eliminating coal-fired power in this  
6 region, then maybe that will prove to other people that  
7 since it has been done before, it is possible to eliminate  
8 coal-fired power in regions where it's far more prevalent.  
9 Clean coal is, of course, the answer to this question from  
10 some people. It's not going to be available for 10 or 20  
11 years, by which time we really won't have much chance of  
12 maintaining civilization.

13 Speaking of things that are too late, if we let  
14 the recovery be just a normal economic recovery instead of a  
15 green economic recovery, that's going to be too late as  
16 well. We also know that green jobs can be created faster  
17 per kilowatt of energy. But more importantly, we're  
18 basically talking about creating either a future where we've  
19 got all these fun electric cars zipping around the Space  
20 Needle -- in fact, like I was talking about, we've got wind  
21 turbines instead of smokestacks belching fumes across  
22 International Park, which according to Ken Burns is the 5th  
23 ever created -- if you're all watching America's National  
24 Parks -- best idea. Its really cool. But basically, that  
25 future, well, it depends on a lot of people and a lot of

1 places.

2 But here and now we have a chance for it to  
3 personally depend on us doing something that can actually --  
4 that seems really big but is actually really small, and can  
5 make something much larger happen, or begin.

6 **MR. KARIER:** Excuse me. Are you close to wrapping  
7 up?

8 **MR. SIBELMAN:** Yeah. That's all I have to say.

9 **MR. KARIER:** Thank you.

10 **MR MEASURE:** Thank you.

11 **MS. DUKES:** Genevieve.

12 **MS. VAYBA:** Hello. My name is Genevieve Vayba.  
13 And I am an environmental design architect and urban planner  
14 here in Seattle. And my method of getting around town is by  
15 using a bicycle. I'm afraid I am not an egghead, like most  
16 of the people who have spoken prior. I'm very impressed by  
17 their arguments, and I approve of everyone, but one that  
18 I've heard.

19 It is -- there may be some contentions still in  
20 the broader country about climate change. But there is  
21 absolutely no argument about the negative effects of air  
22 pollution. That was the word we used back in the '70s. I  
23 suck it up every day on my bike. I am a really great  
24 candidate for more cancers than I've already had. We cannot  
25 continue to breathe befouled air, nor can other living

1 creatures. We must stop polluting yesterday.

2 Coal is really nasty stuff. It's not about  
3 climate change; it's about life itself. So I would just  
4 contend, we should turn off these halogens. We don't need  
5 to be so romantic in a meeting room. We can have the ugly  
6 fluorescents in here.

7 Teleconference, don't fly. Ride a bike, don't  
8 drive. Wear a sweater and turn down the heat. Stop digging  
9 Mother Earth and blowing her effluence up into the sky,  
10 which is then uptaken by our oceans, lands, forests and  
11 lungs. It's really all that I've written here. There's  
12 much more that could be said. But the severity of this  
13 issue now is so great, that its beyond speech. So please  
14 think about now, and about the future. Thank you very much.

15 **MS. DUKES:** Barbara Zepeta. And then Ethan  
16 Bergerson and Siri Nelson.

17 **MS. ZEPETA:** I'm Barbara Zepeta. And I have been  
18 working on energy issues for a very long time, because  
19 basically, the nuclear issue was something that was buried  
20 in the public utility districts of the state. And Seattle  
21 is still furnishing 50 percent of the underlying bonding  
22 capacity of WPPS. As long as we continuer to hide the true  
23 costs of energy -- and I'm talking about all kinds of  
24 energy, the diesel buses that kids ride in -- and the fact  
25 that we use twice as much energy as any other nation per

1 unit of GDP. People have got to understand that as long as  
2 we hide the true costs, the people who are rich can continue  
3 to buy their way out. But they can put all the costs on the  
4 central cities, which has destroyed our central cities. The  
5 commuter car, because we don't pay one-tenth, or we pay  
6 about one-fifth of our costs of the car on the highways, in  
7 the gas tax. And we're putting it on the property tax,  
8 we're putting it on the general taxes, where we have to  
9 depend on the sales tax of the state. And the municipal  
10 ownership, 100 years ago, took over the utilities in the  
11 interest of the working people -- and the people, not the  
12 corporations. But we have let the corporations take over  
13 our power and use our so-called -- even our environmental  
14 activities, to subsidize big corporations instead of  
15 individuals. And we do need to democratic democratize our  
16 energy.

17 We used had to have windmills on family farms,  
18 even electric power stations in the little farms down in  
19 Centralia in the 1900s. This -- we have refused to put the  
20 cost down. And I served on the City Light Committee,  
21 Citizens Committee in the '70s. And that's the first time I  
22 found out who was really getting the subsidy. We're worried  
23 about the welfare mothers. It's the corporations and the  
24 high-rise buildings that were getting a tremendous, a  
25 billion-dollar subsidy in every city in this country.

1 The only time you can tell the truth is when the  
2 government has to put out a bond prospectus to the  
3 stockholders. They have to be told the truth. The  
4 taxpayers do not know. And that's the only time I found  
5 out, that the people who use the most energy get the biggest  
6 subsidy. There was a law, Magneson and the energy movement  
7 in the '70s said that 10 megawatt loads should be -- require  
8 a referendum or a public vote, or at least a vote by the  
9 Legislative Council in the City. What they did is they  
10 said, well, this building isn't a 10 megawatt load, even  
11 though we have to buy this power for a 10 megawatt load. But  
12 until this building is fully occupied and all the individual  
13 loads are in there, it isn't a 10 megawatt load. Now, this  
14 is the kind of stuff that has gone on, and this is why we're  
15 wasting energy.

16 We are getting what we subsidize. We subsidize  
17 sprawl and wasted energy and it's all fungible; coal power  
18 plants are just one of the most obvious, but not the most.  
19 To me, nukes are worse. But we've simply got to start  
20 telling the truth. We can't solve scientific problems, we  
21 can't solve economic problems, we can't solve environmental  
22 problems until we start actually laying the costs on the  
23 table and start deciding, if we're going to subsidize  
24 something, we're going to subsidize what we want.

25 **MR. KARIER:** Thank you.



1           **MS. DUKES:** Ethan? Ethan Bergerson. And then  
2 Siri Nelson, and Terry Walker.

3           **MR. BERGERSON:** Thank you very much for hearing  
4 from me. My name is Ethan Bergerson, representing the  
5 Sierra Club and myself. I'd also like to thank you for  
6 making this whole process so open to public participation. I  
7 know that's not an easy task. And it's really inspiring to  
8 see just the level of opportunities to public involvement  
9 and transparency in this whole process. And thank you also  
10 for creating a draft plan that is very strong in energy  
11 efficiency. I'm going to try to keep my remarks brief,  
12 because I know you've heard a lot tonight.

13           But the main thing I want to get across is that,  
14 what was incredibly inspiring that we saw from the actual  
15 process of creating this draft plan, were the numbers that  
16 came out showing that it's possible to not only move beyond  
17 coal in the entire region within the next decade, but that  
18 that is actually going to be by far the most effective means  
19 of addressing carbon dioxide pollution and global warming.  
20 And that's incredibly important, because the Governors of  
21 Washington and Oregon and Montana have promised their  
22 constituents that we are going to meet these climate goals.  
23 And really, the only way that we can do that is by  
24 addressing carbon dioxide from coal. And what the numbers  
25 that have come out of this planning process have shown, is

1 that that's possible, that's affordable, and that's going to  
2 have -- it's the only way to meet them.

3 And so what I'd urge you to do, as representatives  
4 of people, but also as representatives of your governors,  
5 would be to ensure that that makes it into the final plan.  
6 The final plan has that strong an accurate price for carbon  
7 dioxide, and that this final plan incorporates that vision  
8 of a coal-free Northwest. Thank you very much for hearing  
9 us.

10 **MS. DUKES:** Thank you.

11 **MR. KARIER:** Thank you.

12 **MS. DUKES:** Siri Nelson.

13 **MS. NELSON:** Thank you for giving me the  
14 opportunity to speak to you tonight. My name is Siri  
15 Nelson. I'm a Seattle resident. I am a biologist and a  
16 volunteer at the Sierra Club. As you can guess from the  
17 sticker, I'm here to talk about coal, one other person. So  
18 I'm really here to urge you to revise the plan and to begin  
19 shutting down coal-fired plants now. Many people here have  
20 stated the numbers tonight, and I don't neat to quote them  
21 for you. But the use of coal creates an enormous  
22 environmental degradation, from the mining to the processing  
23 of coal to the CO2 and me than emissions. It's directly  
24 contributing to global climate change, to human health  
25 problems.

1 As a member of the scientific community, I've  
2 observed alarming and far-reaching data on the effects of  
3 climate change on our planet. There's not a single person I  
4 know who does environmental research, does ecology research,  
5 does biology across the globe, who has not seen some example  
6 of climate change. It's greatly alarming. I also instruct  
7 college students in ecology and biology. I get a lot of  
8 questions, and it's hard not to despair when I tell them  
9 what we're witnessing. So that's really why I'm here today.  
10 As a descendant of Northwest farmers, the continued use of  
11 coal power does not reflect my family's values. They're  
12 still farmers now. And I know we're pretty unanimous at the  
13 family reunions about coal power on both us urban  
14 Seattleites and the people who are still driving the  
15 columbines in Montana.

16 I believe you guys are in a unique position to be  
17 leaders. I really think the Northwest could be leaders on  
18 this issue, we have in others. And we can really set an  
19 example for how we can do this as a nation and the world. So  
20 thank you again this evening, and for staying so late and  
21 hearing all us speak tonight. Again, thanks.

22 **MR. KARIER:** Thank you.

23 **MS. DUKES:** David Atcheson. And Terry Walker. I'm  
24 sorry, is Terry Walker here? Well, come on down, David.

25 **MR. ATCHESON:** Hi, I'm Dave Atcheson. I'm the

1 immediate past President of the Wedgwood Community Council.  
2 Wedgwood is a neighborhood in northeast Seattle. Some of  
3 you may be familiar with it.

4 For the last ten years or so I've really looked  
5 for signs that our society is serious about addressing the  
6 problems of climate change and fossil fuel energy  
7 consumption. And I've looked at various levels. And one of  
8 the levels is the neighborhood level. And as a Community  
9 Council Trustee, I tried to figure out, well, what would it  
10 really look like if we were serious in the neighborhoods  
11 about energy conservation. And I pictured a door-to-door  
12 campaign, block by block, provided good information to  
13 folks, putting together incentives with contractor  
14 efficiencies. And I'm very excited that this is actually  
15 coming to pass.

16 There's something called "sustainable works."  
17 We're fortunate that the Wedgwood Ravenna neighborhood is  
18 one of the pilot programs for that project, which will  
19 attempt to have over 200 homes within a defined geographic  
20 area sign up for audits and follow-up energy conservation  
21 measures. So it seems to be coming to pass at the  
22 neighborhood level.

23 Of course, at the national level, I was looking  
24 for progress on a cap on carbon emissions. And we're  
25 getting closer there, too. Internationally, of course,

1 we're all holding our breath for what happens in Copenhagen  
2 in December. But at the regional level, what I've thought  
3 for years was I've thought about the coal-fired plants. To  
4 me they just jump out as the single most important thing we  
5 can do to reduce our carbon emissions in this region.

6 I think the plan that you've produced is really  
7 good as far as it goes. And I think what really jumps off  
8 the page is that opportunity that we have, if we were to  
9 retire the plant in Centralia and the other plants in the  
10 Northwest.

11 So I really think, although I really applaud your  
12 public service on this commission, and you've got a very  
13 difficult job, but I think it's almost a gift that you have  
14 something that stands out this clearly, that you can have a  
15 significant influence on bringing about this, for instance,  
16 the Centralia plant being 10 percent of Washington's carbon  
17 emissions. In single master strokes we can really take a  
18 huge bite out of the problem.

19 So I think you'll have your back covered if you  
20 choose to go that route by strengthening the plan in those  
21 ways. From what we've heard tonight, that certainly seems  
22 to be the case. So thank you again for the opportunity.

23 **MR. KARIER:** Thank you.

24 **MR. WALKER:** I'm Terry Walker. And I'm an  
25 architect. I have a background in engineering and degrees

1 in architecture and urban planning, and an MBA. And I spend  
2 my time designing houses for billionaires and apartments for  
3 poor people. And I'm concerned about our built environment.  
4 And that concern has led me to come here tonight to talk to  
5 you on behalf of Walker Architects about what I see as the  
6 emergent problems, and the problems that are being  
7 sustained. I'd like to thank you for the legislation that  
8 you've supported in the past and for the plan that you have  
9 written and put before us.

10 I'd like to express two concerns about that plan.  
11 The first one is that it doesn't take a hard enough, or  
12 aggressive enough view of coal-generated power. We need to  
13 stop using coal immediately. I know it's not physically  
14 possible. I know that we can't replace the power that the  
15 coal plants are generating right now. But we need to do  
16 more to do the reduction of coal-generated power more  
17 aggressively. And that brings me to point No. 2.

18 I don't see in the plan where you're planning to  
19 empower distributed power generation in the distribution  
20 system. In order to bring solar energy, rooftop power  
21 plant, small scale hydro, wind power, actively into position  
22 where we can manage that power generation in our existing  
23 infrastructure, we have to empower more energy storage in  
24 the system, and we have to have a control system which will  
25 allow us to bring that new green power online. And I don't

1 see that in your planning. It's like you're not planning  
2 for distributed power and renewable power generation to take  
3 a very significant role in our future.

4 So I think you need to re-visit your plan  
5 regarding where this has to go in terms of the climate  
6 science. Without fortifying the distribution system for our  
7 power with energy storage systems, we cannot bring or take  
8 power aggressively online. The failure to plan for that,  
9 telegraphs a lack of thinking, a lack of preparation. And  
10 that's alarming. Because the inability to make a decision  
11 to stop the practice of using coal to generate power, and  
12 thereby stop the damage to human populations, even here in  
13 the state of Washington, is the same as the decision to  
14 continue the damage to human populations here in the state  
15 of Washington and the rest of the world. Coal is too  
16 expensive, because sooner or later, its cost is counted in  
17 human lives all around the world.

18 So we encourage aggressive action to reduce the  
19 carbon footprint of our civilization, and its cities here in  
20 the state of Washington, and this region. And we encourage  
21 renewable power generation and preparation of the electric  
22 power delivery system to empower distributed power  
23 generation. Thank you very much.

24 **MR. KARIER:** So that exhausts our list. And I'm  
25 going to have to excuse a number of our staff at this point

1 that I think have flights to Portland. And so I want to  
2 make sure they have an opportunity to make those flights. I  
3 do want to check to see if there's anyone here that has been  
4 sitting here all night -- there were some that had signed up  
5 and we had to --

6 **MR. KARIER:** How many are there of you here? Can  
7 you three come up here and I'll ask you to try to keep your  
8 remarks preferably to topics that have not been covered.  
9 And very brief, and briefer than what we've had before.  
10 Okay. Thank you. If you could give us your name and who  
11 you're with.

12 **MR. CANTER:** I apologize. I was on the list but  
13 was called out to speak at the rally. I'm Evan Canter. I'm  
14 a doctor. And I am the National Board President of  
15 Physicians For Social Responsibility, a Nobel Prize-winning  
16 organization that addresses the gravest threats to human  
17 health. So I thank you very much for the opportunity to  
18 testify here today.

19 Coal-fired power plants are the leading global  
20 warming culprit in the U.S., accounting for more than 30  
21 percent of our nation's carbon dioxide emissions. They're  
22 also one of the nations largest sources of air pollutants  
23 that damage cardiovascular and respiratory health and  
24 threaten healthy child development. Particulate matter,  
25 sulphur dioxide, nitrogen oxide, mercury, and more than 50



1 other air toxics are among the dangerous mix of pollutants  
2 spewed from the smoke stacks of coal plants. Because of the  
3 imminent threat of global warming as well as the extensive  
4 toxic emissions, coal-fired power plants represent a medical  
5 emergency.

6 I want to state that I really appreciate all the  
7 thoughtful work that has gone into this plan. It is really  
8 very impressive. It is particularly gratifying to see all  
9 the analysis in the plan that puts a price on carbon. Yet,  
10 the price of carbon is not some arbitrary cost that is  
11 dropped down on us from Congress or state governments. An  
12 accurate assessment of the true costs must include the  
13 medical and public health effects of coal. There are -- and  
14 I will take you briefly through some of the effects of both  
15 global warming and traditional pollutants, quickly.

16 There are four main categories of health effects  
17 of global warming that are already being felt here. First,  
18 increased frequency and intensity of heat waves, with  
19 associated health problems of heat cramps, heat exhaustion  
20 and heat stroke.

21 Second, increased air pollution. Increased  
22 temperatures cause increased production of ground level  
23 ozone, the main component of smog. This will increase rates  
24 of asthma and other respiratory diseases.

25 Third, infectious diseases. Climate changes alter

1 the range of disease-carrying organisms. West Nile Virus  
2 carried by mosquitoes was not seen in the U.S. until  
3 recently. More than 25,000 cases and more than 1,000 deaths  
4 have now been recorded.

5 Fourth, extreme weather events. These include  
6 severe storms, increases in both drought and flooding, and  
7 associated features such as erosion and wildfires. We do  
8 not have the public health capacity to respond to increasing  
9 numbers of large-scale disasters that are difficult to  
10 predict. As global temperatures increase, sea level rise  
11 will severely disrupt the lives of more than 150 million  
12 U.S. residents living in and around our nation's coastal  
13 cities and towns. Across the U.S., the poorest and most  
14 vulnerable individuals, those least able adapt, will be  
15 disproportionately affected as the U.S. public health  
16 infrastructure becomes overly burdened by the impacts of  
17 global warming.

18 In addition to massive CO2 emissions, coal  
19 combustion produces a slew of harmful air pollutants. Every  
20 year particulate matter pollutants spewed by coal plants  
21 triggers hundreds of thousands of asthma attacks, and causes  
22 tens of thousands of hospitalizations, heart attacks and  
23 early deaths. Coal plant emissions of nitrogen oxide also  
24 contribute to the formation of ground level ozone or smog,  
25 which itself is associated with asthma attacks, new onset

1 asthma, heart attacks and angina pain. Particulate matter  
2 alone is responsible for 24,000 deaths annually.

3 In perspective, that's more than is caused by  
4 motor vehicle accident. Almost done.

5 All together, emissions from coal plants are  
6 estimated to be responsible for 49,000 deaths and 400,000  
7 serious illnesses annually. Coal-fired power plants are  
8 also the single largest source of mercury emissions in the  
9 U.S. Pregnant women and children are particularly  
10 vulnerable to the toxic effects of mercury, exposure to  
11 which occurs primarily from consuming contaminated fish. As  
12 many as 600,000 children are born each year with dangerous  
13 levels of mercury in their bodies, putting them at  
14 heightened risk for developmental disabilities. This is  
15 particularly concerning, given the increasing incidents of  
16 autism and other neurologic problems among children. So  
17 I've just mentioned the health effects only of burning coal.  
18 The mining, transportation and waste disposal associated  
19 with coal also have significant and costly effects in public  
20 -- on public health.

21 In conclusion, we have an exceptional opportunity  
22 to significantly advance the health of our population and  
23 our environment by creating a coal-free Northwest. For the  
24 health of our region and beyond, we must take full advantage  
25 of this opportunity.

1 Thank you again. Thank you for listening to all  
2 of us tonight. I will submit on behalf of my organization a  
3 more detailed report with references on the health effects  
4 of coal. Thank you.

5 **MR. KARIER:** Thank you.

6 **MS. RICE:** Hi folks. My name is Kristy Royce, and  
7 I'm here tonight as a mom. I'm not really an eco warrior,  
8 and I'm certainly not an energy expert. I'm just a mom who  
9 happens to know a fair amount about climate change. My dad  
10 is an atmospheric scientist, and so I do know my fair share  
11 about climate change.

12 I started an organization here in Seattle that's  
13 been -- it's actually been pretty popular, and it's called  
14 Cool Moms, and we're edging up on a thousand members. We're  
15 actually going to speak with the Senate in a few weeks about  
16 climate change and how moms are very concerned about climate  
17 change and really what it's going to do for our kids.

18 When I look into my dad's eyes when he starts  
19 talking about the future -- he's a scientist, he is a really  
20 smart guy -- but he gets this look in his eyes that's -- I  
21 don't really see it very often, and it's kind of sheer  
22 panic. I mean, he's really scared. And he starts talking  
23 about the future. And he's really talking about my two  
24 little girls' lives. You know, they're 3 and 4. And so  
25 when I think 34 years out, I think, gosh, I really want them

1 to be able to be a mom. I want them to see how hard it is,  
2 you know. I mean, that's our punishment to them, or  
3 whatever. You've heard all of this, and you know that we  
4 want to shift, and we want to get rid of the coal, and I  
5 know it's really hard. I mean, I've read the reports. I  
6 know it's different. But I'm just going to share with you a  
7 little story. And you could take it for what it is.

8           You know, moms, we're always trying to teach our  
9 kids to clean up. We're always picking up their socks, and  
10 we're teaching them to clean up their own rooms. And my  
11 three-year-old, she can clean up the room, she can take some  
12 responsibility to keep her room clean, her environment  
13 clean. And I guess what I wonder, is why can't coal  
14 companies do the same thing? Why is it that environmental  
15 costs of power generations, that the environmental costs of  
16 power generation methods are not added into the actual power  
17 cost? I mean, I just don't get that. Why are coal plants  
18 allowed to pollute water supplies, spew carbon dioxide and  
19 mercury into the atmosphere at no cost to them? That  
20 doesn't make any sense to me.

21           I ask the Council to add a realistic forecast  
22 price to carbon into its plan. We all know that there's  
23 going to be cap and trade, or there's going to be a carbon  
24 tax. I know that. I think just about everybody in this  
25 room knows that. I do believe that doing that will equalize

1 a playing field for clean energy, and it will spur  
2 alternative energy, and I think that will help our economy.

3 I just believe coal needs to be responsible for  
4 their emissions. My children and the world's children think  
5 you can and must do better than status quo. We urge the  
6 Council to do more. We must drastically reduce our carbon  
7 emissions if we're going to have a planet worth living in in  
8 the future. My children think we must do more, because they  
9 think the future of the planet is worth it.

10 **MR. KARIER:** Thank you.

11 **MR. HOWELL:** Thank you for your endurance. And I  
12 want to let you know, I brought you a gift, because there  
13 was 22 other people who wanted to testify. We've collected  
14 that in a written form. We're still collecting them. So  
15 you just got off the hook from 22 other people-plus behind  
16 me. So I'm your Santa Clause tonight.

17 My name is Doug Howell. I'm the Coal-Free  
18 Northwest Campaign for the CR Club. I really appreciate you  
19 being here and letting us all participate. I will keep it  
20 quick. Obviously, we are very concerned about coal. You've  
21 given us the blueprint, a coal-free Northwest within 10  
22 years, affordable cheap, right on. Let's get that great  
23 information out there into the public realm.

24 But I want to focus on carbon price. Dr. Alan  
25 Hamlet really set us up to say there's nothing you can

1 really do within the confines of your work to accurately put  
2 a price on carbon, but I'm going to try. And what I want to  
3 say is that even at \$47 a ton, you will only at best be  
4 getting half a loaf of the equation. Because when we talk  
5 about carbon price, the problem is that only represents the  
6 cost of reducing emissions. What that does not represent is  
7 the cost of carbon damages. That is the other half of the  
8 loaf. What we're really talking about, carbon price is  
9 getting at the cause of global warming to reduce emissions.  
10 It does not talk about the effects. And the preliminary  
11 research is extremely controversial, and we know that  
12 economists are going to have a field day for arguing, what  
13 is the cost per ton for climate damages?

14 Preliminary estimates from some of our greatest  
15 economists, like Sir Nicolas Stern, have tried to put a  
16 price tag on it. \$80 a ton in 2009 dollar values. Even if  
17 you put \$47 a ton in there, there is another big chunk of  
18 the pie that will never be represented. That's why this is  
19 the greatest market failure that has ever occurred. And if  
20 for this Council to not include a carbon price in the final  
21 plan, would be a disaster.

22 One of the most important things that you can do,  
23 clearly there is huge support for that, and our three  
24 governors have made that extremely clear. If we're going to  
25 deliver on the promise of this planet to have the vision be

1 about climate change, we have to get that price in there.  
2 And that price will never be high enough to capture the true  
3 cost of global warming. Thank you.

4 **MR. KARIER:** Okay. I want to thank all of you for  
5 coming tonight. We greatly appreciate it. Again, the  
6 Council's schedule, we'll take this testimony into account.  
7 We'll have it transcribed, and it will be available for  
8 those Council members who were not here tonight, although  
9 most of them were. And the Council will close comments  
10 November 6th. So you're free to submit written comments  
11 until then. And after that, the Council will deliberate and  
12 develop a final plan.

13 Again, thank you very much and thanks to the  
14 Council members for bearing with us. And this hearing is  
15 adjourned. Thank you.

16 **(Whereupon, the hearing concluded at 8:12 p.m.)**  
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## 1 CERTIFICATE

2  
3 I, Tim Bellisario, do hereby certify that pursuant  
4 to the Rules of Civil Procedure, the witness named  
5 herein appeared before me at the time and place set  
6 forth in the caption herein; that at the said time  
7 and place, I reported in stenotype all testimony  
8 adduced and other oral proceedings had in the  
9 foregoing matter; and that the foregoing transcript  
10 pages constitute a full, true and correct record of  
11 such testimony adduced and oral proceeding had and  
12 of the whole thereof.

13  
14 IN WITNESS HEREOF, I have hereunto set my hand this  
15 9th day of October, 2009.

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23 /Signed February 09, 2011  
24 Tim Bellisario Commission Expiration  
25

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