

N

NAEGELI

DEPOSITION AND TRIAL EXPERTS

CORPORATE HEADQUARTERS
111 SW FIFTH AVENUE
SUITE 2020
PORTLAND, OR 97204
800.528.3335

THE NAEGELI ADVANTAGE

technology
service
price



NaegeliUSA.com

NORTHWEST POWER AND CONSERVATION COUNCIL

IN RE:

DRAFT SEVENTH NORTHWEST POWER PLAN

PUBLIC HEARING

HELD ON
MONDAY, NOVEMBER 9, 2015
6:30 P.M.

FLATHEAD ELECTRIC
2510 U.S. HIGHWAY EAST
KALISPELL, MONTANA 59901

1 IN RE:

2 DRAFT SEVENTH NORTHWEST POWER PLAN

3 PUBLIC HEARING

4 HELD ON

5 MONDAY, NOVEMBER 9, 2015

6 6:30 P.M.

7
8 MR. SMITH: Thank you very much for coming
9 tonight in inclement weather. Glad to see the
10 moisture back in this part of the country. My name
11 is Pat Smith. I'm one of two Montana members on the
12 Northwest Power and Conservation Council. I
13 actually live just south of here in Arlee, a bit
14 north of Missoula.

15 My other colleague is Jennifer Anders, who
16 is in Helena. She had a loss in her family just
17 recently, so she will not be here tonight. But we
18 very much appreciate the turnout tonight for this
19 hearing.

20 I would like to first acknowledge Bruce
21 Measure, a former Northwest Power Council member
22 here. Welcome Bruce, good to see you. And I will
23 sort of read the procedures here of what we'll --
24 how we'll proceed this evening, and then Tom Eckman,
25 who is our Power Division Director -- and there are

1 a number of staff people here. Raise your hands,
2 the members of the Northwest Power Council staff
3 that are here **(indicating)**.

4 Because also afterwards, if you want to
5 talk to folks, we have a lot of our experts in the
6 room this evening who have been involved in drafting
7 this plan -- and Mr. Eckman, over here **(indicating)**,
8 will give a Power Point overview for you right after
9 I read this statement, and then we'll proceed with
10 testimony in the order that you signed up.

11 So welcome to the public hearing held by
12 the Northwest Power and Conservation Council on the
13 Council's proposed Seventh Northwest Power Plan.

14 The Northwest Power Act directs the
15 Council to develop a regional conservation and
16 electric power plan and to review that plan every
17 five years. The Council is now engaged in its
18 latest five-year power plan review. As part of this
19 effort, the Council released the draft revised power
20 plan on October 20th for public review and comment.

21 The Council will be accepting written
22 comment on the draft power plan until December 18th.
23 The Council will also hold public hearings like
24 this, one, to receive oral comments on the draft
25 plan, in all four states over the next six weeks.

1 If you would like to comment on the draft
2 power plan at this hearing, please sign in on the
3 sheet provided for that purpose to the right here
4 **(indicating)**. And you may also leave written
5 comments with us this evening if you desire.

6 Your comments tonight will be recorded,
7 placed in the Council's administrative record for
8 the power plan review, and -- most importantly --
9 considered carefully by the Council as it makes its
10 decisions on the final power plan early in 2016.
11 The same is true for all written comments submitted
12 to the Council.

13 For those of you who intend to testify
14 this evening, your name will be called in the order
15 you signed up. Please begin your testimony by
16 stating your name and organization clearly for the
17 benefit of the court reporter, and feel free to
18 summarize your testimony. Your full written
19 statement will be included in the official record.

20 In the unlikely event that we have more
21 willing witnesses than available time -- which I
22 don't think will be a problem this evening -- we
23 might have to establish a time limit for each
24 witness, but we hope that won't be necessary this
25 evening.

1 We will leave the official record open for
2 a period of ten days following this hearing. This
3 is just for the record for this hearing and this
4 court reporter, because we'll wrap the proceedings
5 on this hearing, we hope, and we'll leave it open
6 for ten days. But, again, the full record is still
7 open until December 18th.

8 All public comments submitted to the
9 Council, including oral testimony at tonight's
10 hearing, will be posted on the Council's website as
11 soon as possible.

12 For more information on the proposed
13 Seventh Power Plan, including the text of the draft
14 plan itself, please visit the Council's website at
15 www.nwcouncil.org.

16 You may submit comments by using the
17 "provide comment" link on the webpage devoted to the
18 draft Seventh Power Plan. That's another way you
19 can easily comment just off the webpage.

20 So with that, again, thank you for coming.
21 We very much appreciate the turnout tonight. And
22 I'm now going to turn it over to Tom Eckman, who is
23 going to give you kind of a high-elevation overview
24 of the Seventh Power Plan.

25 **MR. ECKMAN:** Good evening. Thank you,

1 Pat. We're going to do a fairly quick overview of
2 the plan, and then take testimony from all of you.
3 So this is just to get you warmed up.

4 What we're trying to do with the regional
5 plan is to prevent some of the mistakes that were
6 made in the '70s with respect to both, particularly
7 building too much power at a very expensive cost.

8 The Power Act worked its way through
9 congress in a period where we had overforecast the
10 region's need for additional resources, and we
11 overbuilt, and Bonneville's rates at the wholesale
12 level went up 418 percent in about five years. So
13 it's a little bit of a history to see why we're
14 here. But we're trying to prevent that from ever
15 happening again.

16 The Power Act has a set of efficiency
17 resources, renewable resources and thermal
18 generation resources that are set in priorities.
19 We're trying to set those out in terms of resource
20 need and go through the region with your comments
21 and involve the public in the development of a plan.

22 Our principal goal in the plan is to
23 ensure an economical and reliable power supply over
24 the next 20 years. We have to have a forecast of
25 that demand, and a resource program to meet the

1 demand going forward. I'll show you some of those
2 in a moment and identify some of the resources that
3 will be needed to meet the forecasted need going
4 forward. And we revise the plan every five years,
5 as Pat said, by statute.

6 Most of the plan's guidance is directed at
7 Bonneville, the region's utilities, with respect to
8 the kinds of resources they develop, when and in
9 what quantities. So we start with Key Findings:
10 Energy Efficiency and demand response. And demand
11 response, in our words, is a way to meet peak loads
12 that occur in periods of time when we have low water
13 conditions, that is, it's a drought, and we have a
14 very cold winter.

15 And so during peak periods during the
16 winter, we ask and pay people to reduce their
17 consumption -- largely industrial customers,
18 commercial customers but it can also be residential
19 customers -- to reduce their needs during peak time.
20 And energy efficiency has been around for a long
21 time. The co-op here has been.

22 So this is what the resource portfolio
23 looks like on an energy picture. That big green
24 wedge there is energy efficiency going forward.
25 It's the predominant resource that we see that's

1 cost-effective and need for development.

2 There's a little bit of natural gas coming
3 on at the tail end, and some wind, and solar at the
4 far tail end starting around 2030, 2035 -- or 2030,
5 2025 (sic), and those are being built in response to
6 Washington, Oregon and Montana renewable resource
7 portfolios.

8 So the real story going forward on an
9 energy picture is energy efficiency and
10 conservation. So there's really no immediate need
11 to provide development of any generating resources.
12 The reason for this is, if you look at loads going
13 forward, we think we can mitigate all load growth
14 with energy efficiency.

15 So this is the net load, on average,
16 across all forecasts that have been done, and it
17 stays basically flat for a period of 20 years.
18 Before energy efficiency, the loads would have
19 looked like this, another 4,500 aMW of load at the
20 tail end. But that energy efficiency basically
21 needs no load growth under most conditions going
22 forward.

23 What was aiding and abetting this process
24 in particular was, we had an unprecedented number of
25 federal standards that came into place that will go

1 into effect between now and 2020, and they will
2 diminish the need for new resource development as
3 well. So a bunch of the energy efficiency is going
4 to be captured by federal standards for plants
5 buying equipment and anything -- including
6 transformers that the utilities buy.

7 When we look at this over multiple kinds
8 of scenarios, we see the same result. This is the
9 load growth going forward, net, after energy
10 efficiency. In our existing policy case, that's no
11 new policies beyond what we have adopted today. If
12 we take an increased carbon significantly into
13 market price, we end up developing roughly the same
14 amount of conservation and end up with net load
15 after that at basically the same level.

16 When we look at low gas prices, we
17 basically develop the same amount of energy and
18 efficiency, plus or minus a few MW going forward.
19 And, again, it meets all load growth, even under
20 very low gas price conditions where less energy
21 efficiency would look to be less economical. But in
22 terms of meeting load growth, it does the job.

23 And finally, under lower conservation, we
24 still meet load growth, but not quite for so long,
25 by about the year '15. The energy -- the cost of

1 energy efficiency has been used up. In lower
2 conservation cases, this is where we apply
3 conservation up only to the wholesale market price
4 of power. It still has basically flat load growth
5 for the next 15 years.

6 So over the next five to ten years, which
7 is the principal component of the plan before we
8 update it, it looks like very few futures would have
9 us building generation to meet load growth.

10 I should add that that particular line,
11 that red line, if we only build that much energy
12 efficiency, it increases the cost to the system by
13 about \$14 billion over 20 years, so it's not a very
14 least-cost solution. It is, however, cheap in the
15 front end.

16 Okay. Demand response, and out-of-region
17 markets might meet our needs for peak resources, and
18 we look at the portfolio for capacity. Again, the
19 big green wedge there is energy efficiency.

20 The purple slice is demand response,
21 pretty constant at around 700 MW of winter capacity
22 on peak, and a little bit of thermal resources,
23 natural gas, coming on at the end to supply winter
24 capacity.

25 So the big story in both energy and

1 capacity is that demand response is the principal
2 component for energy, and energy efficiency are the
3 principal components that meet the capacity and
4 energy needs.

5 Retiring coal plants, which there are
6 three announced retirements in the region, none in
7 this state, as of yet. In Washington state, the
8 Centralia Coal Plant has been announced for
9 retirement. In Oregon, the Boardman Coal Plant has
10 been announced for retirement. In Nevada, the North
11 Valmy Coal Plant -- North Valmy Coal Plant has been
12 announced for retirement. Those can basically be
13 replaced with firing our existing natural gas
14 generation in increased amounts.

15 So if we look at that, these are the --
16 this is the amount of gas generation on the vertical
17 axis in aMW that we would produce from the exiting
18 gas turbines we own in the region, across the region
19 today. If we don't retire the coal plants, that's
20 the gas generation input that we would provide to
21 the region's power supply.

22 It starts at around 2,000 aMW and
23 diminishes to about 1,500, and then picks up a
24 little bit at the end. But between 1,500 and 2,000
25 aMW of gas generation if we didn't retire those

1 three coal plants I just mentioned.

2 Since they are going to be retired, the
3 amount of gas generation goes up as the substitute
4 for that coal generation on the west side and down
5 in Nevada. So that blue line represents the amount
6 of gas generation increase that we would see. So it
7 stays steady at around 2,000 aMW as it is today
8 instead of diminishing over time.

9 If we add carbon costs to the equation, it
10 raises the price of coal significantly, less so with
11 natural gas, and gas generation is more economical.
12 So we see a huge increase in this particular
13 scenario of nongas generation, almost a doubling of
14 gas generation going out because it now becomes
15 cheaper to operate the existing coal plants.

16 If we take another path with carbon cost,
17 it goes up a little bit more, and so gas generation
18 grows gradually because the carbon costs in that
19 particular scenario increase over time and get to
20 basically the same level.

21 If we're going to do a coal plant
22 retirement, if we retire all the coal plants in the
23 entire region, we see gas generation bumping up
24 again. If we add renewable resources, we see gas
25 generation diminishing because renewable resources

1 reduce the wholesale price of natural -- wholesale
2 price of electricity, and natural gas plants can't
3 compete, so they diminish their output.

4 So finally, on the EPA carbon rules, which
5 I know in this region is of great interest in the
6 state, we can meet them regionally. These are all
7 the scenarios that will just get them on there.

8 If we don't retire those coal plants that
9 have been announced for retirement already, that's
10 the level of coal generation we see in the region on
11 an average basis. Since those plants are going to
12 retire, that's the path we see carbon generation
13 looking like going forward.

14 So there's a fairly significant drop.
15 Instead of 30 MMTE in the end, you get down to about
16 20 MMTE through those coal plant retirements that
17 are already announced. All the other scenarios drop
18 below that level because they do have additional
19 policies to take carbon lower. That yellow that
20 just came on is the EPA limit for the four states
21 for carbon generation that's allowed, starting in
22 2022 and going through 2030.

23 So without the retirement of those coal
24 plants that have already been announced, we would
25 exceed that at the end. But with the retirement, and

1 with the energy efficiency that's embedded in all of
2 those forecasts for around 4,500 MW of savings, we
3 see meeting the EPA goals at the regional level
4 relative to straight forward. That's not
5 necessarily the same statement for each state.

6 If we look at the rank order of the
7 policies out there, the average CO2 emissions for
8 the region, as a whole was about 55 MMTE, on
9 average, between 2000 and 2012. If we don't retire
10 the coal plants that have been announced, that goes
11 down to about 45. With those retirements, it goes
12 to around 35 MMTE.

13 And if we add various costs to the carbon
14 cost, we see reductions in carbon still down
15 further. We go from about 55 MMTE down to the
16 bottom there with 12 MMTE. With maximum technology,
17 that's basically retiring all the coal plants in the
18 region and substituting natural gas for even
19 inefficient natural gas.

20 An important phenomenon to understand here
21 is there's a big cost associated with one particular
22 scenario versus another. So if we start at 35 MMTE
23 with the coal plant retirement and building energy
24 efficiency, in order to get down to 29 MMTE, if we
25 use an RPS to get there, a region-wide RPS at 35

1 percent, that increases the system cost by about \$34
2 billion. That's over a 20 percent increase in cost
3 to the system.

4 On the other hand, if we simply retire
5 coal plants and inefficient gas plants, we can get
6 down to 12 MMTE a year for about \$20 billion. So
7 there's clearly a difference in cost benefit ratio,
8 depending on the carbon reduction policy you choose
9 to take.

10 It's still a lot of money. \$20 billion is
11 a fairly significant increase, but you get a pretty
12 significant reduction in the cost of carbon
13 reduction using that policy.

14 So I'm going to stop there after we look
15 at this last number. We have found that imports and
16 exports matter a lot. This region sells a lot of
17 surplus power to California and the southwest.
18 Selling less to that outer region, and using the in-
19 region helps us avoid development of in-region
20 resources.

21 And I'm going to stop there because I want
22 to hear from you folks. Pat, let's go there at this
23 time.

24 **MR. SMITH:** Thank you, Tom. We're going
25 to proceed now with the list of folks that have

1 signed up. I've got 14 people signed up. And,
2 again, if you'd like to testify, or if you changed
3 your mind and you'd like to be on the list, just
4 sign in over here at this table over here
5 **(indicating)**, and we'll be sure to include you.

6 The purpose of this is to sort of hear
7 your comments and your input, not so much a question
8 and answer situation. As I mentioned before, we
9 have Tom Eckman, our Power Division Director here,
10 and other staff people in the room.

11 So after the presentations, just be aware
12 and feel free if you have questions about things, we
13 have staff in the room that can help you and try to
14 answer any questions you might have.

15 So with that, I think we'll get started.
16 And I'd like to ask Ray Ellis to come up first.

17 **MR. ELLIS:** I guess it's already turned
18 on. My name is Ray Ellis. I'm the general manager
19 for Lincoln Electric Cooperative in Eureka, Montana,
20 just north of here.

21 I'd like to start off by saying that
22 you're a brave man, Pat, for being the only member
23 of the Council actually here for this sort of thing.
24 But I do want to take the time to thank the Council
25 for its process for this Seventh Power Plan, and the

1 fact that it was much more transparent, and most
2 certainly more accessible than in the past.

3 And we really do appreciate the
4 opportunity. There's been many times that I've been
5 able to speak to you and the Council about, you
6 know, what affects Lincoln Electric.

7 I'll start off by giving a little
8 background about Lincoln Electric. We serve about
9 5,600 meters in Northern Lincoln County and part of
10 the northwest shoulder of Flathead County. And I
11 can assure you that the recession is still alive and
12 well in that particular area.

13 And that on a forecast basis, when you
14 look at what Lincoln Electric is expected to
15 experience in the next decade, we'll have little or
16 actually no load growth whatsoever. And so
17 therefore, you know, all the policies that the
18 Council suggests to Bonneville has a major impact on
19 our rates and what goes on there.

20 Certainly, we've seen an increase in the
21 numbers of low income, and I want to say low-income
22 and fixed-income members. Also, there's been a
23 major change in our demographics in which at one
24 time we had about 50 percent of our load was
25 industrial, and now it's down to about 6 percent,

1 and that is mainly from the closure of all the
2 sawmills in that particular region.

3 As well, I guess, also, you know, I can go
4 on about the woes that we have there and how it's
5 important for us to really make sure that anything
6 that affects rates is as minimal as possible. Also,
7 I would like to kind of propose to the Council -- I
8 make this same plea to Bonneville as well -- is that
9 we need to really kind of forge a much closer
10 relationship between the Council and the
11 cooperatives that especially you represent here in
12 Western Montana.

13 And it's important in many respects
14 because it's those members of those cooperatives
15 that actually are paying for, you know, not just the
16 budget of the Council, but for all of the suggested
17 policies and requirements that the Council is
18 placing on Bonneville, and understanding just how it
19 affects us is really important.

20 And I know that the Council has to make a
21 -- this is a regional plan, but the regional plan
22 has its effect down to the very smallest, and that's
23 certainly one of the -- is us.

24 Also, I want you to understand, too, that
25 we do support -- at Lincoln Electric we do support

1 our responsibility for the fish and wildlife costs
2 of the hydro system. And also, we are in support of
3 energy efficiency, even though it can detract from
4 our revenues. I guess I can't reiterate enough that
5 it is important for -- that there be controls on the
6 cost of the fish and wildlife program. I realize
7 maybe we're talking energy efficiency here, but also
8 on energy efficiency as well.

9 As I mentioned earlier, you know, our load
10 forecast is flat, if not declining over the next
11 decade. And being required to do certain amounts of
12 energy efficiency actually reduces our revenue.

13 And as a utility that is not growing, and
14 it means then we have to turn right around and raise
15 our rates to make up for the lack of revenue because
16 we are a nonprofit utility, and we still have to
17 make certain amount of margins to cover our debts
18 that are paid out to the banks that we borrow money
19 from.

20 I would like to see that the Council would
21 have some recommendations for -- to Bonneville that
22 there's some flexibility built into the plan for
23 energy efficiency that would allow us to apply our
24 monies where we see the most benefit, and have the
25 Council and Bonneville both understand that some of

1 those goals may not be applicable to all utilities
2 across the region, especially one like ours.

3 You know, we see that -- we've tried to
4 apply more and more of our energy efficiency dollars
5 towards low-income weatherization. That certainly
6 changes the dynamics or the economics of energy
7 efficiency versus the lowest cost resource, and
8 because there are some places that you just can't
9 put enough money into to really make energy
10 efficiency economical with some of the places that
11 people live in.

12 We also believe that instead of having a
13 specific number of MW that you choose, that there
14 should be a range. Because we know how difficult it
15 is to predict the future, no matter how many
16 forecasts you use, how many sensitivities you build
17 into the forecast, mostly likely whatever you
18 forecast isn't going to come to pass exactly.

19 So I would like to see -- recommend that
20 we have a range of that target of energy efficiency.
21 So because if we don't meet it, what's the recourse,
22 you know? And so it needs to take into account a
23 combination, you know, some of the -- that some of
24 the assumptions actually may not be correct.

25 For instance, the price of natural gas,

1 you know, that assumption was made and kind of set,
2 I think, in '13-'14. We're seeing lower prices on
3 that. It may have a different outcome or a
4 different look at how the economics play out on
5 energy efficiency versus natural gas. We do know
6 that natural gas does set the margin for the power
7 prices in the Northwest.

8 I guess also, too, I would like to have
9 the flexibility to be able to use our energy
10 efficiency dollars on demand response. As I said
11 earlier, probably the biggest and best benefit I can
12 give my members is a way -- is for us to be able to
13 keep our wholesale power costs depressed, because
14 they make up about 50 percent of our budget right
15 now.

16 And any impact on our rates, on our
17 wholesale rates, has to be passed along to our
18 members. We just can't hardly quite eat that cost
19 forever, even though we have done so in the last
20 couple of rate increases. We're at our limit now,
21 and all of those will have to be passed on to our
22 members.

23 And lastly, I'm going to ask that -- it's
24 going to be strange when I talked to you about this
25 in Portland just last week -- is that I'd like to

1 see the Council develop a "white paper" that
2 basically says that the policies and programs of the
3 Council, those policies that you guys are
4 advocating, actually will require utilities -- and
5 especially us cooperatives -- to examine the retail
6 rate design that we currently have, and that we
7 should consider migrating to a fixed cost recovery
8 rate.

9 And the reason why I asked that is,
10 because you probably understand how politically
11 difficult that is for cooperative boards, and even
12 for cooperative managers, to pull that off. But yet
13 it's something that we're really going to need to do
14 if we're going to actually survive financially.
15 Because as I mentioned earlier, when we have a
16 specific amount of energy and we're required to sell
17 less of that energy, you know, it does make it more
18 financially difficult for us.

19 And I know that there will be push-back
20 from some of the organizations across the Northwest,
21 but at last check, I don't think any of those
22 actually manage utilities and have to look out for
23 their members and to keep their organizations
24 financially viable. Because they are owned and
25 operated, and our members have -- by our members,

1 you know, they have a specific role to play in
2 managing our utility. So that's it for me for now.
3 Thanks.

4 **MR. SMITH:** Thank you, Mr. Ellis. So our
5 next commenter is Mark Johnson. I'd also like to
6 thank Flathead Electric for hosting us tonight at
7 this facility. Thank you very much.

8 **MR. JOHNSON:** Glad to have everyone here.
9 My name is Mark Johnson. I'm the general manager
10 here at Flathead Electric. I just wanted to make a
11 couple comments, kind of echo a few of the things
12 that Ray said. I do agree with Ray that the Seventh
13 Power Plan process has been very much transparent
14 and appreciate the hard work of the staff and the
15 Council. We had two members -- two employees of
16 Flathead Electric involved in committees, the
17 Resource Strategy Advisory Committee and the
18 Generating Resources Advisory Committee. So we were
19 involved in the process and appreciate that
20 opportunity.

21 The first point I'd like to talk about is
22 the resource portfolio of the Seventh Power Plan.
23 The regional portfolio model across all the 800
24 futures that were tested shows in more than 90
25 percent of those futures that cost-effective energy

1 efficiency met all the load growth through 2035.

2 One of the things that I was surprised
3 about was to see how little variable renewable
4 resources, such as wind and solar resources,
5 contribute to the expected resource portfolio moving
6 forward. And which brings up a request I would like
7 to provide for the Council.

8 States continue to adopt higher statutory
9 requirements for utilities through mandated
10 renewable portfolio standards. And based on the
11 Seventh Power Plan, these mandates to develop new
12 renewable wind and solar resources, ahead of need in
13 most cases, deserve much more scrutiny before
14 becoming law. I would ask that the Council provide
15 the necessary scrutiny.

16 I ask the Council to use its resources to
17 provide analysis and guidance to those who are
18 advocating for higher RPS standards, including the
19 governors of the Northwest states. This is a time
20 and an issue where I think the Council should and
21 can provide leadership to the region.

22 The second item I'd like to talk about is
23 a single-target regional conservation goal and echo
24 what Ray said. This target, which is a specific
25 number, does not reflect the uncertainty of the

1 forecasting process, nor address the variability of
2 outcomes that can be received from conservation over
3 time.

4 Acquisition of conservation is very
5 unpredictable by nature, especially related to
6 commercial and industrial customers whose
7 willingness to fund conservation can change with any
8 downturn in the economy.

9 For these same reasons, specific two
10 milestones as noted in the plan for conservation are
11 also not appropriate.

12 When further analysis has been done and
13 charting of the scenarios relating to the Council's
14 six-year energy efficiency build recommendation is
15 performed, it appears that a range of 1,300-1,450
16 aMW is much more appropriate versus the specific
17 1400 aMW target currently in the plan.

18 And lastly, I realize that the Council,
19 and especially you, Pat and Jennifer, are
20 responsible for the entire region as members of the
21 Council. And I understand what a tough job that can
22 be. There's no question about that. I would
23 encourage you, when appropriate, to step away from
24 acting in the best interest of the region and the
25 Council and consider whether or not the decisions

1 you and the Council are about to make are in the
2 best interest of Montana's Bonneville customers.

3 Because the interests of the region do not
4 always align with Montana's ratepayers, whose rates
5 help fund the Council as well as a majority of BPA's
6 programs.

7 With many of BPA's programs, it is
8 difficult to determine whether Montana is getting
9 the appropriate share of the benefits from the money
10 Montana ratepayers contribute. For example, in the
11 2014 Columbia River Basin Fish and Wildlife Program
12 Costs Report, over \$237.3 million was included in
13 BPA's rates for fish and wildlife programs.

14 This included rates paid by Montana
15 ratepayers, including Flathead Electric members, but
16 resulted in only \$8.3 million, or about 3 percent,
17 spent in Montana. For our members, especially those
18 who have trouble paying their bills, you need to
19 know that they are relying on you to look out for
20 their best interests. Thank you.

21 **MR. SMITH:** Thank you, Mr. Johnson. Next
22 on the list is Ross Holter.

23 **MR. HOLTER:** Thank you. My name is Ross
24 Holter. I'm the Director of Energy and Member
25 Services here at Flathead Electric.

1 Flathead Electric Co-op has long had a
2 robust suite of energy efficiency programs and
3 achievements across all areas, including the
4 residential, commercial, and industrial sectors. In
5 fact, we have attained 14 aMW of efficiency savings
6 since '01, enough to meet one-third of our load
7 growth during that time period.

8 And while I applied the optimistic outlook
9 towards EE in the draft plan, I do have three areas
10 of concern:

11 First is the sustainability of these
12 continued high levels of savings. Each year it is
13 becoming more difficult to achieve the level of
14 savings we reached the year before. The proverbial
15 low-hanging fruit is being harvested, and we are now
16 having to get out the ladder to reach the fruit that
17 is just out of reach. We are having to become more
18 creative, which is fine, but we are concerned that
19 this could mean increased costs as well.

20 My second concern is the blanket approach
21 of determining the potential for certain measures in
22 light of the regional differences that exist. It's
23 easy for us to use energy policy speak, so please
24 allow me to provide a real-world example: Heat pump
25 water heaters, while the energy saving potential for

1 heat pump water heaters is large, actual deployment
2 implementation varies greatly across the region.

3 In the milder climate on the West Coast,
4 water heaters are often located in garages that will
5 likely never see freezing temperatures. In our
6 climate, water heaters are virtually never placed in
7 garages, and are, in fact, located in conditioned
8 spaces such as utility rooms, closets, or crawl
9 spaces.

10 The operational realities of these units
11 include much higher installation cost, increased
12 noise, the exhausting of cold air, and will
13 drastically slow their deployment in our area.

14 My final issue is the plan's treatment of
15 the capacity or demand reductions associated with
16 various efficiency measures. It appears the plan is
17 tabulating twice as much capacity as average energy.

18 Again, using real-life examples: An air
19 source heat pump in our area will result in a
20 capacity reduction, except for the absolute coldest
21 days of the year when it will likely convert over to
22 auxiliary heat mode. However, a commercial lighting
23 retrofit with a demand reduction of 40 percent,
24 let's say, will result in a true 40 percent
25 reduction in capacity all the time, but certainly

1 not an 80 percent reduction. So my point is, that
2 energy efficiency's contribution to capacity
3 reduction needs to be reexamined. Thank you.

4 **MR. SMITH:** Thank you. The next is Russ
5 Schneider.

6 **MR. SCHNEIDER:** Thank you very much. I'll
7 keep some of my comments brief and submit written
8 comments with the full version, but I'm going to
9 focus mostly on some technical issues after reading
10 through the plan.

11 I'd like to thank the Council's staff for
12 the continued effort to produce a better plan, doing
13 their best to allow for stakeholder participation.
14 The draft plan is professional and comprehensive in
15 many ways. It's an opportunity for the industry to
16 come together on common terminology for the regional
17 energy issues. There are opportunities for
18 improvement in consideration of rural economic
19 realities and the cost causation principles
20 necessary for equitable distribution of Council
21 influenced costs and benefits to Montana.

22 A couple areas of improvement are there
23 seem to be too many costly action items directed at
24 Bonneville. For example, BPA-7 through BPA-10 delve
25 into operational issues, including operating

1 reserves, oversupply mitigation, extra reporting,
2 and load forecasting. These are items that really
3 are just good business operations for Bonneville and
4 don't seem to need to be a directive from the
5 Council.

6 The Fish and Wildlife Program costs have
7 been discussed already. But I would say that the
8 costs of fish and wildlife in Bonneville rates
9 increase the cost-effectiveness of energy
10 efficiency, so there is a little bit of a self-
11 fulfilling prophecy when you're increasing one and
12 then saying we need more of the other.

13 Bonneville-focused cost-effectiveness
14 without proper understanding of marginal costs and
15 benefits inherent in the Tiered Rate Methodology to
16 Bonneville customers, the draft takes a narrow view
17 of avoided cost that customers are getting a melded
18 Tier 1 rate from Bonneville, when, in fact, a lot of
19 customers are just getting a Load Shaping credit
20 during the rate period. Or, they don't have access
21 to a market rate that could be the avoided cost.

22 Market and natural gas prices could use a
23 refresh. I'm sure you'll hear this across the
24 region. The vintage of the natural gas forecast is
25 from 2014. I don't think it's unreasonable to ask

1 the Council to update that before the final plan.

2 As Ross mentioned, the capacity
3 contribution of energy efficiency seems to be
4 overstated. Flathead has done a lot of energy
5 efficiency in the valley, and yet in the past couple
6 of years we've continued to set record winter and
7 summer peaks, even with all the efforts in the
8 region.

9 Demand response costs in the plan seem to
10 be overestimated and the cost underestimated. The
11 cost of demand response to implement on a per-unit
12 basis used some figures from Puget Sound Energy, \$14
13 a unit, when, you know, the cost to install some of
14 this equipment in a home is easily \$90 per visit.
15 So we're hopeful you guys can take another look at
16 those installation costs.

17 In addition, demand response programs take
18 time to implement and the benefits are marginal. If
19 there are some rural Bonneville customers who are
20 below their contract demand quantity in most months,
21 they might not have a demand charge that they can
22 work on in some months. Thank you very much for
23 your time.

24 **MR. SMITH:** And you work for Flathead
25 Electric Co-op?

1 **MR. SCHNEIDER:** I do, Russ Schneider,
2 regulatory analyst at Flathead Electric. Sorry.

3 **MR. SMITH:** And next is Roger Sullivan.

4 **MR. SULLIVAN:** Good evening again, Pat.
5 For the record, my name is Roger Sullivan. My
6 office is at 345 First Avenue East in Kalispell.
7 And I'm here this evening representing myself;
8 although, over the course of over the last more than
9 three decades I've had the honor of representing
10 numerous organizations and individuals who have been
11 involved in power-related issues, including, I
12 think, when I first met Mr. Smith may have been in
13 about 1983, during the course of the litigation of
14 the proposed hydroelectric facility at Kootenai
15 Falls in Lincoln County, which was sponsored by a
16 consortium of electrical co-ops, including Lincoln
17 Electric and several others.

18 Interestingly, that was at the time that
19 the first edition of the power plan was still just
20 coming out, and we had an early opportunity to try
21 to forge the benefit of the Northwest Power Planning
22 Act, and which I was pleased to see that the
23 historical context for the creation of the Northwest
24 Power Planning Act and one of the legacies of it,
25 which is the Council of which Pat Smith is a part

1 in, that Bruce Measure served, you know, very
2 effectively representing Montana for the eight years
3 of Governor Schwinden's term.

4 And I feel like it is important to place
5 even this seventh proposed update within the context
6 of the experience that led to that, which was what
7 was the, you know, commonly referred to as the
8 "Whoops disaster," which imposed on ratepayers
9 throughout the Pacific Northwest, including Montana,
10 the necessary burden from ill-advised and
11 uncritically analyzed projections for power.

12 Fortunately, even in the Kootenai Falls
13 proceeding, which was decided by the Federal Energy
14 Regulatory Commission in 1984 -- so it's many
15 decades past -- but the need for power, again, was
16 one of the determinations made that saved not only
17 the legacy of that beautiful historical and cultural
18 landmark of Kootenai Falls, sacred to the Kootenai
19 Indians, but also saved the electrical co-ops from
20 the burden of a debt that they would still be
21 servicing today.

22 More recently, I represented farmers and
23 ranchers in -- outside of Great Falls, the Southern
24 Montana Electrical Cooperatives, the SME, which was
25 also a group of Montana electrical co-ops who had

1 come together to propose to build a new coal-fired
2 generation plant just east of Great Falls. And once
3 again, as the record in that case was developed, it
4 became apparent that there really was not only a
5 need for that power, but that it would really
6 jeopardize the economic viability of those Montana
7 electrical co-ops.

8 We're now still, I think, experiencing the
9 legacy of that additional failure. We were able to
10 demonstrate -- and in that case, I represented the
11 farmers, the ranchers, and the Montana Environmental
12 Information Center in successfully opposing the
13 permitting of that facility. Ultimately, a very
14 small natural gas fired facility was built, and even
15 that was not able to be brought online. And
16 eventually, as I understand it, the fate has been to
17 sell it through bankruptcy proceeding for scrap.

18 So it's very important, the task that the
19 Council has before it, in order to -- with a clear-
20 eyed sense of future possibilities that are
21 unclouded by sometimes the rancor of the media
22 demands that are placed upon all of us. And I think
23 that my own concern here this evening has to do with
24 not just the five-year plan, but in fact, with
25 future generations.

1 As a grandparent, I'm increasingly
2 concerned with the impacts of climate change. And
3 although the plan proposes as an element of it being
4 the beneficiary of proposed coal-fired power plant
5 closures, which include Centralia, Boardman and
6 North Valmy coal plants between 2020 and 2206, I
7 think that it's really important that we really look
8 at attempting to achieve the greatest reduction in
9 carbon pollution that is possible, and that includes
10 facing the issue and consideration of retiring
11 costly coal-fired power plants that are in
12 existence, including coal-fired power plants like
13 Colstrip.

14 As you're aware, the Puget Sound Electric
15 is an owner of a significant portion of those coal-
16 fired power plants. And NorthWestern Energy, more
17 locally, is a smaller owner of those plants. But I
18 think that the economics that were briefly
19 summarized for us estimated that we can reduce the
20 region's carbon footprint by as much as 80 percent,
21 if we were to retire additional existing coal-fired
22 power plants. And I think that it's time to give
23 far more serious thought to that possibility.

24 In doing so, I would also like to disclose
25 that I'm currently litigating on behalf of the

1 Montana Environmental Information Center and the
2 Sierra Club under the Clean Air Act the -- their
3 compliance with the New Source Review Provisions,
4 and that litigation is going on. I'm involved in
5 it.

6 But aside from that, since it's an
7 enforcement action, I think that the Power Council
8 should be critically looking to a much more
9 significant degree the -- those options for existing
10 coal-fire power plants, in addition to the three
11 that were referenced in the open comments.

12 I strongly applaud the strong efficiency
13 goals that are energy efficiency goals that are in
14 the final plan. I think that they're well
15 supported, and I'm supportive of making sure that
16 they make it into the final draft, and likewise
17 support preserving demand response as a high
18 priority in the final adopted plan.

19 Both of those demonstrably make economic
20 sense, and they make environment sense. And so I
21 think they're important components of a plan that
22 leads us into a sustainable future, which is
23 something that I know all of us in this room support
24 in concept, if not necessarily in detail.

25 And finally, I would request that in my

1 estimation the plan could provide a stronger vision
2 for developing our region's renewable energy
3 resources. I appreciate the comments that were made
4 by both of our local electrical co-ops in terms of
5 what they are contending are questionable cost
6 benefit analyses of our -- these sources of energy.

7 But I would also say that it is that time
8 in the history when we need to develop and
9 demonstrate some additional methodologies for the
10 production of our power. And I actually applaud the
11 Flathead Electric Co-op who has in our area been a
12 leader in that regard. And it requires both our
13 Power Council, our regional, and our local
14 utilities, and I think our local citizens and
15 businesses.

16 And in that regard, I have been
17 participating in that. In our recent remodeling of
18 our law office, we installed 14 kW of solar
19 electric, which produces -- in its first year has
20 produced over 50 percent of our electric needs. And
21 we have the benefit of a lot of the incentive
22 programs that I thought were helpful. And we had
23 the benefit of Flathead Electric Co-op allowing us
24 the benefit of net metering for the full 14 kW that
25 are produced.

1 I realize that we're in this transitional
2 period where it's going to take individual
3 investors, such as myself and my law partners,
4 together with our utilities, and especially our
5 electrical co-ops. And so I want to indicate that I
6 appreciate that our electrical co-ops have been
7 attempting to participate in bringing online these
8 technologies.

9 I believe that they will -- in the future,
10 they will be an important component of truly
11 creating a sustainable future that is under the --
12 that when the cloud can be removed for not only this
13 but most importantly for future generations, the
14 cloud of our carbon pollution which is an enormous
15 cost that has yet to be effectively factored into a
16 true cost benefit analysis.

17 So if we were to truly cost out the
18 production of fossil-based fuels in terms of all of
19 their impacts, I am confident that even as we speak
20 that solar and wind would be viable and economic,
21 were all costs to be properly calculated. Thanks so
22 much to the Council. I appreciate the opportunity
23 to comment.

24 **MR. SMITH:** Thank you, Mr. Sullivan. And
25 next is Bruce Measure.

1 **MR. MEASURE:** I thought you had 14 people
2 that were going to comment. I'm Bruce Measure. I
3 live at 635 Fifth Street East in Kalispell, Montana.
4 While I am affiliated with Flathead Electric Co-op
5 as a trustee on the their board, I think that their
6 manager and staff have presented Flathead's position
7 very well. And so any remarks that I make will be
8 my own, and I wish they'd be considered that because
9 I don't want to get the co-op involved in some of
10 the concerns that I have.

11 Just a brief look back at historic Council
12 planning. A number of people have mentioned the
13 fact that this particular plan is much more
14 transparent, and it is. And a number of people have
15 -- and I've looked back at this point in the Sixth
16 Power Plan and meeting in Spokane, and just how much
17 we had done and how much we didn't have done, and
18 what we were proposing, and what we thought we were
19 proposing, and they weren't always the same thing at
20 that point in time. So I have to commend you on the
21 transparency in this power plan.

22 The other thing that -- I've chaired a
23 number of these meetings, and the two of them that I
24 think I chaired during the last power plan were very
25 interesting. One was in Seattle, right downtown at

1 the Space Needle, and one was in Missoula, but a
2 number of others as well.

3 And you get an incredible -- as you get
4 into different parts of the region -- it doesn't
5 have to be a high population portion of the region,
6 but just a different part of the region -- you run
7 into significant disparity in the people that
8 attend.

9 And oftentimes in the first 10 or 15
10 minutes of your meeting, using either sweet grass or
11 sage to smudge the facility to make sure that we've
12 driven out all of the evil spirits and made sure
13 that we're going to be thinking good thoughts, we
14 usually say a prayer of some type.

15 So today for my preparation for this, I
16 have a -- my mother, when she married my father back
17 in the early '40s, they were well educated. She was
18 30 some years old. He was 40, nearly, or I guess in
19 his mid 30s. And they were going to be living with
20 his mother. And she said, well, if we're going to be
21 doing that, I need a place to run off to when things
22 get a little tough. So she bought a 175-foot beach
23 front on Bitterroot Lake at that point in 1936 or 7.
24 And that's been kind of the place of refuge, and a
25 place to really think and collaborate about what

1 you're thinking.

2 And I really didn't know what to think
3 about the Seventh Power Plan, to tell you the truth.
4 So I went out there. And one of the indicators of a
5 high level of energy that goes into the thought
6 process out there are the amount of wildlife that
7 you see. And so when I walked up to the cabin door
8 -- and that's all this is, is a little cabin, a
9 little shake cutter's cabin for cutting cedar shakes
10 -- there were four bald eagles that flew up
11 immediately from the deck and circled around a bit,
12 and then flew off.

13 And when I got back inside I noticed there
14 were still three of them that were standing in a
15 tree. So I figured that was pretty big medicine in
16 terms of this process. So I figured I'd better give
17 it a good deal of thought before I came in here
18 tonight. And I did, and I really didn't come up
19 with much of anything that hasn't been said so far.

20 I do -- at one point in time, folks were a
21 little bit concerned about the demand response, and
22 whether or not it was being given short shrift and
23 whether we were relying on efficiency too much.

24 And efficiency -- Pat, you may remember
25 others, certainly Tom will remember -- that one of

1 the problems with energy efficiency as a component
2 of the plan was that oftentimes it was endemic to
3 just particular projects. In other words, big box
4 stores in the I-5 corridor could readily deploy
5 tons, and tons, and tons of energy efficiency by
6 just switching out their light bulbs.

7 Whereas, a retailer in Kalispell, Montana,
8 even a large retailer, a commercial retailer like a
9 grocery store, could -- would have a very, very
10 difficult time meeting those same types of
11 efficiency measures. And there was concern that
12 various points in the region would not get credited
13 with the type of -- with that type of investment
14 that they would make.

15 So you've solved that problem. You've
16 built that on top of what was already in the Sixth
17 Plan. But the demand response to it, it's very
18 important to keep in the program. The demand
19 response -- well, one of the things we've done at
20 Flathead, and I think we've done very, very well is,
21 we have gone to nearly every sector to see where we
22 can supply energy, cut our costs, and look at the
23 type of things that could favor our customers, and
24 especially in the area of rates.

25 And so we buy energy from tiny little

1 power plants that are hydro plants. We've got a
2 gas-fired power plant at the landfill. We are
3 burning slag at the Stoltze sawmill, and just about
4 anything else that we can find to provide energy.
5 And that provides not only for -- to shave our
6 peaks, but it also gives us an opportunity to buy
7 that locally and contribute to the community. And
8 we want to continue to do that. We think that's a
9 good plan for the region.

10 So the only other thing that I want to
11 talk a little bit about, and it may be -- Pat,
12 you'll have to correct me if I'm wrong -- but the
13 fish program. And the fish program is part of the
14 power plan. However, the fish program was decided
15 long ago, probably last summer, wasn't it? About
16 that time. And the fish program at this point in
17 time is very expensive.

18 It was noted that it was \$275 million, I
19 think, in Council funds. But the ancillary funds
20 that are taken from the other federal agencies,
21 that's the U.S. Fish and Wildlife Service, NOAA
22 Fisheries, and the Army Corps of Engineers, if you
23 aggregate those funds, they account for more than a
24 billion dollars in costs.

25 And during my term on the Council, one of

1 the things we tried to do is effectively through
2 both the administration time and through the
3 agencies' leaders at the time a way for they and
4 Bonneville to work together to see if some of these
5 costs could not be reduced in some way, shape or
6 form. Because they get a little ridiculous.

7 A good example of that is, we have three
8 classes of predators, a number of different
9 predators in each one of those classes: Arctic
10 Terns, and Brandt's Cormorants for one, that
11 primarily nest on spoils islands.

12 If some of you don't know what a spoils
13 island is, that's where when they dredge out the
14 mouth of the river for the big ships to get in and
15 out, they put the dredge spoils, all the rocks, so
16 that they have a place to put them. Well, no one
17 else wants to go there except for the Arctic Tern
18 and the Brand's Cormorants, neither one of which are
19 native to the U.S., but they are covered under the
20 Migratory Bird Act. So nobody wants to hamper their
21 breeding.

22 Another set of predators, of course, are
23 the two types of sea lions, the Stellar and the -- I
24 forget the other one. But they like to go upstream
25 and eat all the adult prespawning salmon as well as

1 the prespawning other fish that are protected,
2 including the sturgeon. And then a third one that's
3 little known about and not much is said about,
4 because they are -- they are game fish in Oregon and
5 Washington -- and those are large mouth -- or small
6 mouth bass and eastern shad, which have the razor
7 sharp teeth.

8 Oh, gosh, they're the size of a small
9 salmon, but they're half head and their teeth look
10 like they're something out of Piranha. And they're
11 pretty hard on the adults that are moving upstream.
12 And the small mouth bass are pretty hard on the
13 smelts that are moving back downstream.

14 So in combination with the disruption that
15 the smelts get as they're coming downstream -- the
16 little bitty ones -- when they get there, they're
17 met with all of these wild and crazy things that
18 they've never seen before in their lives, and about
19 half of them get eaten on the way out.

20 And in addition to that, we stick five
21 billion, between the Japanese, and the Koreans, and
22 the Alaskans, and the Germans, and the Russians, and
23 a couple others, five billion hatchery smelts in
24 there to compete for food once they hit the ocean.
25 And we don't have any problem with sending NOAA

1 Fisheries out there to negotiate treaties with all
2 of those entities as to how many smelts we're going
3 to put in the ocean, and how safe that is for our
4 fisheries, for our native fisheries that are
5 offshore.

6 However, we can't for five minutes get the
7 U.S. Fish and Wildlife Service together with
8 Bonneville, and with the Corps of Engineers to set
9 some limits and to talk about lethal take of those
10 sea lions, of those Cormorants, of those -- and of
11 some of those other predators. And some of the
12 things it's just been deadly easy. At one point in
13 time a badger swam out to one of the spoils island
14 and started decimating the Arctic Tern egg program.

15 And, of course, the Corps of Engineers
16 thought, oh, we can't let this happen, even though
17 badgers are natural -- I think it was a badger --
18 badgers are natural here, and they're eating only
19 what they eat anyway. They said they better go out
20 and remove the badger, even though they were
21 probably saving thousands and thousands of smelts to
22 go into the ocean that would have much higher rates
23 of survival.

24 And for a billion dollars a year, those
25 are the kind of things that contribute to ratepayer

1 dollars. Because they eventually boil down -- even
2 those \$275 million in the actual power plan that
3 Bonneville pays for, you know, it's also rolled into
4 what the Corps of Engineers rolls into its plan.
5 You know, that's the cost of operating that dam.
6 The U.S. Fish and Wildlife Service, all those
7 things, those are all taxpayer issues.

8 I think that you would do well, Pat, both
9 you and Jennifer, I've always felt that Montana had
10 a very, very unique role to play on the Council, and
11 that was the role of spoiler. Because you can
12 triangulate all the other issues, Washington,
13 Oregon, and Idaho, very, very, very well, and very,
14 very easily, you can get practically whatever you
15 want if you just play a little hardball with these
16 people.

17 And one of the things that you can do with
18 them is you can force them to talk to their
19 governors, to talk to their representatives. The
20 U.S. Fish and Wildlife Service can talk to their
21 representatives, the Corps of Engineers, and
22 Bonneville Power, and NOAA Fisheries, because we
23 don't have any of those offices here. There's no
24 fisheries office in Butte. And there's no Corps of
25 Engineers office in Helena. I guess there is, but

1 it's a pretty small one. It doesn't have anything
2 to do with fish.

3 And I think that it's very, very difficult
4 for this governor. And I've worked with your boss,
5 Steve Bullock, and I think he tries very hard to do
6 what he's doing and do it right. But I really don't
7 think he understands completely just how difficult
8 this process is, how removed it is from actual
9 governance problems in Montana, and how you really
10 can't get yourself into any -- did I turn myself off
11 -- and how you really can't get yourself in trouble
12 making some nasty attacks on lions in Oregon, and
13 Idaho in areas of policy that 99 percent of your
14 constituents aren't going to know a thing about or
15 care about. So that's my only admonition as far as
16 the power plan. Thank you very much for having me.

17 **MR. SMITH:** Thank you, Mr. Measure. Four
18 eagles is certainly a good sign in my book.

19 **MR. MEASURE:** Seven, seven, four left when
20 I got there, and there were three more sitting in
21 the tree that didn't move the entire time that I did
22 all of my preparatory reading and while I took my
23 preparatory nap.

24 **MR. SMITH:** Seven is a very good number.
25 Thank you. Next on the list is Richard Cohen.

1 **MR. COHEN:** My name is Richard Cohen. I
2 live at 160 Kallner Lane in Whitefish. I'm a master
3 electrician. I participated in the Super Good Cents
4 Program. I built a couple of houses. Every day I
5 get rewards from that program, and I also do a net
6 metering with the co-op here.

7 I don't have anything specific as far as
8 the plan, but I really see a disconnect between what
9 goes on in the field with what people pay. Ray
10 asked me -- I call these my Tar Sands Community
11 because these homes go up in three months. Most of
12 them don't have any kind of air to air heat pump.
13 They're just standard houses. Most of them probably
14 second homes. And our rate structure just rewards
15 them to continue this policy that energy is cheap.

16 The Super Good Cents Program was fabulous.
17 I know we sort of have a program now. And I'm not -
18 - I still applaud it with the other efforts. But
19 what it really boils down to is, volunteer effort by
20 the participants to get involved, not mandatory.
21 And energy is too valuable to be just given away.

22 So I would like to see more effort on the
23 education and real value of the longevity of our
24 structures that we build. And that way, we can
25 better understand how we use our energy, and then

1 hopefully that leads to a broader perspective of
2 where that energy comes from. Thank you.

3 **MR. SMITH:** Thank you, Mr. Cohen. And
4 next is John and Carol Free.

5 **MR. FREE:** Good afternoon. My name is
6 John Free. I'm here representing myself. I'm a
7 retired mechanical engineer when the aluminum plant
8 was still open.

9 I have three comments: The first one is I
10 support the Flathead Electric Co-op statements this
11 evening. I think they represent pretty much, you
12 know, what I feel about how things are, how the plan
13 is and so forth.

14 The next one is on demographics. I'm sure
15 a lot of energy has been put into putting together
16 this plan. And I'm kind of wondering if
17 demographics for people moving into our area have
18 been included in this. We looked -- just as an
19 example, California has about 44 million people in
20 it. Quite a few of those people are moving in and
21 out of California.

22 Our area, I believe, is in growth right
23 now and may continue for a while. It depends a lot
24 on the economy. But I think there should be some,
25 perhaps, looking at this idea of what's going to

1 happen with growth, and if the planning will
2 accommodate that.

3 The last thing I have to say is, I think
4 the plan represents probably a pretty good and
5 satisfactory plan for retiring coal-fired power
6 plants. I do not believe in accelerating this, as
7 has been proposed this evening. There are a lot of
8 jobs that are -- and I believe if this is done on a
9 gradual basis, it would have less effect on
10 particularly the people working there. Thank you.

11 **MS. FREE:** Hello. I'm Carol Free. We're
12 with Flathead Electric. We're just plain members.
13 I'm the one who gets the bill, signs the check, and
14 that's where the money goes. We're told by Social
15 Security this year that there is no such thing as
16 inflation, and yet bills go up. And this hits the
17 normal ratepayer over, and over, and over again.
18 It's not just the electric bill. It's all the
19 bills.

20 We're dealing with medical choices right
21 now, being retired and on Medicare. And we're
22 seeing medical things going up even though for
23 Social Security there will be no increase in our
24 checks. We're seeing huge percentages of increases
25 in those costs.

1 So realizing that the normal ratepayer --
2 and many in our region are retired as we are -- are
3 struggling with bills. And everything that can be
4 done to maintain as low a cost as possible to our
5 co-op members is so very important. Sometimes that
6 gets lost in all the figuring and all the charts and
7 all of that. But the people are having more and more
8 difficulty being able to pay the bills. And
9 electricity is a basic need in our society today.

10 I know I'm paying a heck of a lot for a
11 fish I never get to eat. I know I'm paying a lot
12 for various plans that may or may not work out. So
13 I ask that you keep the ratepayer in mind constantly
14 as you deal with the issues of providing electricity
15 to our community.

16 **MR. SMITH:** Thank you both. And next is
17 Melissa Hartman.

18 **MS. HARTMAN:** My name is Melissa Hartman.
19 I am a member of Glacier Climate Action Group, which
20 advocates for the climate. And I live at 436 Park
21 Avenue in Whitefish, Montana.

22 First of all, I just want to thank
23 everybody who spoke before me. It's been an
24 enlightening experience. This is my first meeting
25 of this kind that I've attended, and it's been very

1 educational. I guess one of the things that really
2 strikes me is, you know, just kind of hearing about
3 the different costs associated. That's come up
4 quite a bit with engaging in this particular plan.

5 That being said, I really also appreciated
6 what the gentleman said earlier about how few of the
7 actual costs of carbon emissions are actually
8 factored into what we pay for our energy costs to
9 the climate, cost to our health, costs to the
10 acidification of the oceans. So I just wanted to
11 reiterate to this point because I think it's a
12 really important one.

13 I want to bring up the importance, or at
14 least the issue, of the cost to future generations
15 and what are they going to have to pay if we do not
16 do something to bring about a reduction in carbon
17 pollution? You know, I think about kids, grandkids
18 and so on. So mostly I just wanted to bring that up
19 and say that I support the efforts, again, noting
20 that there are many costs that, unfortunately, we'll
21 all have to bear as a society and as ratepayers and
22 as utilities.

23 But, you know, that there is some
24 sacrifice needed, and I support the focus of this
25 plan on energy efficiency, and closing of coal

1 plants, and investing in renewable resources. And I
2 really hope that we can bring that about in a way
3 that's, you know, certainly thoughtful of the
4 impacts it has, but with the recognition of how
5 critically important these measures are to our
6 future. Thank you.

7 **MR. SMITH:** Thank you very much. And next
8 is Stephen, is it, Braun?

9 **MR. BRAUN:** Yes. All right, it works. My
10 name is Steve Braun. I live in Whitefish, Montana,
11 and thanks for having this open house.

12 I guess I'm coming from the same
13 direction, maybe in a slightly different tangent. I
14 look at the planet as being a finite resource, but
15 unfortunately our needs for it are growing all the
16 time, and we're not really being that responsible
17 for that.

18 I think it's kind of too bad that I hear
19 people complaining about having to pay for the
20 effects of the dams, that we've lived on the largess
21 for, that have been subsidized for many years. And
22 now that we're having to pay for it, it's like
23 people get all bothered by it for fish and wildlife
24 habitat.

25 And then for -- I totally think it's

1 important to do the conservation stuff in your plan.
2 Conservation, as you know, is way more efficient
3 than the other manner of generation.

4 I also think that this would also play
5 into Lincoln Electric's issue if there was a cap and
6 trade on electricity. If there was just a finite
7 amount of electricity that was allowed to be
8 generated, that's going to keep us, maybe -- you
9 know, maybe we will allow other life forms to exist
10 on the planet. And also as Lincoln Electricity's
11 need for what they already have purchased when their
12 agreements goes down, they could sell that on the
13 open mark.

14 And then also if they got rid of the four
15 dams on the lower Snake River, that's going to then
16 free up a lot of this fish and wildlife money that
17 the co-op seemed to be complaining about. So -- and
18 then that would also -- you know, Bruce was talking
19 about like some of the terns and cormorants that are
20 eating fish. You know, if the dams weren't there,
21 too, the sea lions and a lot of those things
22 wouldn't be an issue too.

23 So I think that's pretty much about it.
24 And I think you know electricity should be
25 expensive. I know people are on a finite -- some

1 people that are retired have a finite thing, but
2 they also have like a lot more -- they may have
3 Internet. They may have all these other services
4 that they think that they need now. So I think
5 electricity should be expensive because it has a lot
6 of ramifications. Okay. Thanks. Have a good
7 night.

8 **MR. SMITH:** Thank you, Mr. Braun. Next is
9 Steve Thompson.

10 **MR. THOMPSON:** Hi, Pat. Thanks for
11 chairing tonight. My name is Steve Thompson. I'm a
12 member of Flathead Electric Co-op. I'm from
13 Whitefish. I am the founder of Climate Realty, LLC.
14 They're a Montana-based business that helps
15 homeowners, investors, and real estate professionals
16 conduct local place-based assessments of risk and
17 readiness related to climate change.

18 I've reviewed the plan and am pleased to
19 support the plan's emphasis on energy conservation
20 and demand response management as the wisest and
21 most cost-effective strategies to respond to
22 continued population and economic growth to the
23 regions four states.

24 Our interdisciplinary team of experts
25 finds that climate-smart homes and communities

1 emphasize energy conservation. They reduce their
2 dependence upon fossil fuels and generate an
3 increasing share of local renewable energy. These
4 are excellent mitigation strategies to reduce carbon
5 footprints and important adaptation strategies that
6 minimize risks associated with volatile energy
7 markets, future carbon pricing policies, and weather
8 and climate-related disruptions to the grid and
9 production facilities.

10 Americans consume far more electricity
11 power than we need to live comfortable, productive
12 lives, and we're far behind most of the developed
13 nations in terms of energy conservation. For
14 example, Americans consume nearly twice as much
15 electricity per capita as Germans. Here in the
16 Northwest, there also is a great deal of low hanging
17 fruit for improving conservation measures. Per
18 capita consumption of electricity in California is
19 about half of what is in the Northwest on a per
20 capita basis.

21 Over the next 20 years, we believe that
22 real estate residential markets will place a premium
23 on climate-smart homes and to communities. The
24 Northwest Power Plan's emphasis on energy
25 conservation and incentives to reduce peak time use

1 will position the region favorably in the years
2 ahead. Thank you.

3 **MR. SMITH:** Thank you, Mr. Thompson. And
4 next is John Gangerri.

5 **MR. GANGERRI:** I'll pass. I'll file
6 written comments.

7 **MR. SMITH:** Okay. That's fine. And next
8 is Charles Jaquet. I apologize for the
9 pronunciation there.

10 **UNIDENTIFIED AUDIENCE:** I believe he left.

11 **MR. SMITH:** Okay. Then the last person I
12 have on the list -- and feel free to sign up if
13 you'd like to still get on the list -- is Mayre
14 Flowers.

15 **MS. FLOWERS:** Good evening. My name, as
16 you said, is Mayre Flowers. I'm here tonight both
17 representing myself. I'm a Flathead Electric Co-op
18 member, but also representing Citizens for a Better
19 Flathead. We've been here in the Flathead since
20 1992, a county-based organization working to sustain
21 that which is most special about this region,
22 including our quality of life and resources,
23 efficient use of energy and other resources here.

24 I want to speak in support of the plan,
25 and in particular the plan's goal to meet the energy

1 load growth with energy efficiency in the next 20
2 years. We support the continuous emphasis on strong
3 energy efficiency goals in the final plan, as well
4 as demand response.

5 I want to champion and second a number of
6 comments made earlier about the leadership that
7 we've seen here in this region from Flathead
8 Electric Co-op. We think it's been outstanding, and
9 it's certainly been recognized by others as well,
10 but needs to be held up as a model for other co-ops
11 to move forward with energy efficiency and
12 alternative energy net metering and support.

13 We know that our co-op has faced difficult
14 decisions in approving, for example, the plant at
15 Stoltze and the purchasing power from their facility
16 there. That was a decision where they purchased
17 power at a higher cost than they might have from
18 other sources. But balancing the need of and
19 recognizing the vital importance of that industry in
20 our community, I think our co-op showed wisdom in
21 moving forward with that purchase.

22 I want to also encourage the plan to
23 address the need for education. As we as a society
24 and in the Northwest are moving into a changing
25 energy environment, there is, I think, a need at all

1 levels for education. I think our co-op has done a
2 good job in trying to reach out to the adult
3 population, but I think we also need to reach out to
4 the school population as well.

5 I think understanding -- I have done tours
6 in the Flathead at the energy facility at our county
7 landfill. And we for almost 20 years took kids
8 through that facility talking not only about waste
9 reduction, but about energy efficiency at the guest
10 energy facility. And to get the kids all in that
11 room and would ask them, what is the best thing that
12 we can do to preserve the energy?

13 Because I would talk about how many homes
14 that this facility would support here in our
15 community, and that we had a limited amount of
16 electricity coming into the community from our
17 hydroelectric system that Bonneville manages.

18 And when I asked them what we could do,
19 and usually there wasn't -- you know, it was a lot
20 of kind of shuffling and thinking. And then I'd
21 flip the light switch off. And pretty soon they'd
22 nudge each other, and a teacher might whisper
23 something, and someone would say, we can turn off
24 the lights. We can save energy.

25 I think those are the kind of

1 opportunities that we need to increase in our
2 community. And if this plan can provide support for
3 communities to do that kind of education, I think it
4 will increase the effectiveness of our energy
5 efficiency programs through that awareness.

6 Finally, and just on a personal note, as a
7 grandmom and as someone who, like many, is concerned
8 about our future, I really support the need for
9 strong goals for the reduction of carbon pollution.
10 I understand that this is a difficult transition for
11 us, but I think it is one that we have to give
12 priority to and support the plan in doing all you
13 can to make -- to retain that as a high priority.
14 Thank you.

15 **MR. SMITH:** Thank you very much. So
16 that's all I have that were signed up folks. I
17 would welcome anybody else who would still like to
18 give testimony to come forward, if you'd like to.
19 The record will remain open if you choose to comment
20 in other fashions.

21 I think we're going to keep -- actually,
22 it goes until 8. So I guess I actually can conclude
23 the meeting, if there's no more public testimony.
24 But, again, I'm -- the floor is open if there's
25 anybody else that would like to offer any other

1 comments.

2 Let me mention a couple things just so you
3 -- it's already been stated about what happens now.
4 There's hearings held throughout the region on the
5 draft plan. This kicks it off here in Kalispell.
6 We'll be in Missoula tomorrow night, and there are
7 hearings further west of here.

8 Mike, Roger and Bruce, and maybe some
9 others in the room -- I think firsthand testimony is
10 the best kind. You get to associate faces with
11 people. And so it's at a premium with people coming
12 out to testify, and it's very much appreciated.
13 It's engrained in what we do at the Northwest Power
14 Council to engage the public. It's a statutory
15 directive, and it's something we take very
16 seriously.

17 The transcript here, as mentioned, is
18 going to be open for ten more days, just because we
19 want to close out that transcript for this hearing.
20 So feel free to submit comments if you want to be
21 part of the transcript, again, until December 18th.

22 You can take as many bites out of the
23 apple as you want if something else occurs to you,
24 as in additional comments, however you choose. So
25 the record is open through December 18th, and we

1 very much appreciate all the comments.

2 I listened carefully to what's been said.

3 And the transcripts are also very helpful for the

4 Council members who can't be here. Again, I

5 mentioned Jennifer Anders, with her family

6 situation. It's very helpful word for word.

7 She'll read every word that's said here.

8 So these transcripts are available to all the

9 Commissioners and members from Montana. And there's

10 a total of two in our state. So we appreciate

11 hearing from you.

12 And unless there's no further comments, I

13 think I can -- we had to stay open until 8, I think.

14 So I think I will conclude this hearing. Thank you

15 very much.

16 **(Thereupon, the hearing was adjourned at**

17 **8:02 p.m.)**

18

19

20

21

22

23

24

25

1 CERTIFICATE

2
3 I, David E. Hix, do hereby certify that I
4 reported all proceedings adduced in the foregoing matter
5 and that the foregoing transcript pages constitutes a
6 full, true and accurate record of said proceedings to the
7 best of my ability.

8
9 I further certify that I am neither related
10 to counsel or any party to the proceedings nor have any
11 interest in the outcome of the proceedings.

12
13 IN WITNESS HEREOF, I have hereunto set my
14 hand this 19th day of November, 2015.

15
16 

17
18
19 _____
20 David E. Hix
21
22
23
24
25

<u> </u> \$	1936 40:23	345 32:6	<u> </u> 9
\$14 10:13 31:12	1983 32:13	35 14:12 14:22 14:25	9 2:5
\$20 15:6 15:10	1984 33:14	<u> </u> 4	90 23:24
\$237.3 26:12	<u> </u> 2	4,500 8:19 14:2	<u> </u> A
\$275 43:18 47:2	2,000 11:22 11:24 12:7	40 28:23 28:24 40:18	abetting 8:23
\$34 15:1	20 6:24 8:17	40s 40:17	able 17:5 21:9
\$8.3 26:16	10:13 13:16	418 6:12	21:12
\$90 31:14	15:2	436 52:20	34:9
<u> </u> 0	57:21	44 50:19	34:15 52:8
<u> </u> 01 27:6	59:1 60:7	45 14:11	absolute 28:20
<u> </u> 1	2000 14:9	<u> </u> 5	accelerating 51:6
1 30:18	2012 14:9	5,600 17:9	accepting 3:21
1,300-1,450 25:15	2014 26:11 30:25	50 17:24 21:14 37:20	access 30:20
1,500 11:23 11:24	2015 2:5	55 14:8 14:15	accessible 17:2
10 40:9	2016 4:10	<u> </u> 6	accommodate 51:2
12 14:16 15:6	2020 9:1 35:6	6 17:25	account 20:22 43:23
13-'14 21:2	2022 13:22	6:30 2:6	achieve 27:13 35:8
14 16:1 27:5	2025 8:5	635 39:3	achievements 27:3
37:18 37:24	2030 8:4 8:4 13:22	<u> </u> 7	acidification 53:10
39:1	2035 8:4 24:1	7 40:23	acknowledge 2:20
1400 25:17	20th 3:20	700 10:21	Acquisition 25:4
15 9:25 10:5 40:9	2206 35:6	70s 6:6	across 8:16
160 49:2	<u> </u> 3	<u> </u> 8	
175-foot 40:22	3 26:16	8 61:22 63:13	
18th 3:22 5:7 62:21 62:25	30 13:15 40:18	8:02 63:17	
	30s 40:19	80 29:1 35:20	
		800 23:23	

11:18	address	agreements	12:3 12:5
20:2	25:1 59:23	55:12	19:17 22:16
22:20 23:23	adjourned	ahead 24:12	41:6 55:7
27:3 28:2	63:16	58:2	60:15
30:23	administratio	aiding 8:23	amounts 11:14
Act 3:14	n 44:2	air 28:12	19:11
6:8 6:16	administrativ	28:18	aMW 8:19
32:22 32:24	e 4:7	36:2	11:17 11:22
36:2 44:20	admonition	49:12 49:12	11:25
acting 25:24	48:15	Alaskans	12:7
action	adopt 24:8	45:22	25:16 25:17
29:23	adopted	align 26:4	27:5
36:7 52:19	9:11 36:18	alive 17:11	analyses 37:6
actual 28:1	adult 44:25	allow 19:23	analysis
47:2 48:8	60:2	27:24 29:13	24:17 25:12
53:7	adults 45:11	55:9	38:16
actually 2:13	Advisory	allowed 13:21	analyst 32:2
16:23 17:16	23:17 23:18	55:7	analyzed
18:15 19:12	advocates	allowing	33:11
20:24	52:20	37:23	ancillary
22:4	advocating	already	43:19
22:14 22:22	22:4 24:18	13:9	Anders 2:15
37:10	affects	13:17 13:24	63:5
53:7	17:6 18:6	16:17	announced
61:21 61:22	18:19	30:7	11:6 11:8
adaptation	affiliated	42:16 55:11	11:10 11:12
57:5	39:4	62:3	13:9
add 10:10	afternoon	alternative	13:17 13:24
12:9	50:5	59:12	14:10
12:24 14:13	afterwards	aluminum 50:7	answer 16:8
addition	3:4	am 38:19 39:4	16:14
31:17 36:10	agencies	52:19 56:13	anybody 61:17
45:20	43:20 44:3	56:18	61:25
additional	aggregate	Americans	anything
6:10	43:23	57:10 57:14	9:5 18:5
13:18	ago 43:15	amount 9:14	41:19
34:9		9:17 11:16	43:4 48:1
35:21			49:7
37:9 62:24			

anyway 46:19	27:9	14:7 14:9	basis 13:11
apologize 58:8	29:22 48:13	28:17	17:13 31:12 51:9 57:20
apparent 34:4	aren't 48:14	avoid 15:19	bass 45:6 45:12
appears 25:15 28:16	Arlee 2:13	avoided 30:17 30:21	beach 40:22
applaud 36:12 37:10 49:18	Army 43:22	aware 16:11 35:14	bear 53:21
apple 62:23	aside 36:6	awareness 61:5	beautiful 33:17
applicable 20:1	assessments 56:16	away 25:23 49:21	became 34:4
applied 27:8	associate 62:10	axis 11:17	become 27:17
apply 10:2 19:23 20:4	associated 14:21 28:15 53:3 57:6	<hr/> B <hr/>	becomes 12:14
appreciate 2:18 5:21 17:3 23:14 23:19 37:3 38:6 38:22 63:1 63:10	assumption 21:1	background 17:8	becoming 24:14 27:13
appreciated 53:5 62:12	assumptions 20:24	bad 54:18	begin 4:15
approach 27:20	assure 17:11	badger 46:13 46:17 46:20	behalf 35:25
appropriate 25:11 25:16 25:23 26:9	attacks 48:12	badgers 46:17 46:18	behind 57:12
approving 59:14	attained 27:5	balancing 59:18	believe 20:12 38:9 50:22 51:6 51:8 57:21 58:10
Arctic 44:9 44:17 46:14	attempting 35:8 38:7	bald 41:10	beneficiary 35:4
area 17:12 28:13 28:19 37:11 42:24 50:17 50:22	attend 40:8	bankruptcy 34:17	benefit 4:17 15:7 19:24 21:11 32:21 37:6 37:21 37:23 37:24 38:16
areas 27:3	attended 52:25	banks 19:18	benefits 26:9 29:21 30:15 31:18
	AUDIENCE 58:10	based 24:10	best 21:11 25:24 26:2
	auxiliary 28:22	basic 52:9	
	available 4:21 63:8	basically 8:17 8:20 9:15 9:17 10:4 11:12 12:20 14:17 22:2	
	Avenue 32:6 52:21	Basin 26:11	
	average 8:15 13:11		

26:20 29:13 60:11 62:10	boils 49:19	brave 16:22	business 30:3 56:14
better	Bonneville	breeding	businesses
29:12 41:16 46:19 49:25 58:18	7:7 17:18 18:8 18:18 19:21 19:25 26:2 29:24 30:3 30:8 30:16 30:18 31:19 44:4 46:8 47:3 47:22 60:17	44:21 brief 29:7 39:11 briefly 35:18 bring 53:13 53:16 53:18 54:2	37:15 Butte 47:24 buy 9:6 42:25 43:6 buying 9:5
beyond 9:11		bringing 38:7	<hr/> C <hr/>
biggest 21:11		brings 24:6	cabin 41:7 41:8 41:9
bill 51:13 51:18	Bonneville-	broader 50:1	calculated
billion 10:13	focused	brought 34:15	38:21
15:2 15:6 15:10 43:24 45:21 45:23 46:24	30:13	Bruce 2:20 2:22 33:1 38:25 39:2 55:18 62:8	California
bills 26:18	Bonneville's		15:17 50:19 50:21 57:18
51:16 51:19 52:3 52:8	6:11	budget	cap 55:5
Bird 44:20	book 48:18	18:16 21:14	capacity
bit 2:13 6:13	borrow 19:18	build 10:11 20:16 25:14 34:1 49:24	10:18 10:21 10:24 11:1 11:3 28:15 28:17 28:20 28:25 29:2 31:2
8:2 10:22 11:24 12:17 30:10 41:11 41:21 43:11 53:4	boss 48:4	building	capita
bites 62:22	bothered	6:7 10:9 14:23	57:15 57:18 57:20
Bitterroot	54:23	built 8:5 19:22 34:14 42:16 49:4	captured 9:4
40:23	bottom 14:16	bulbs 42:6	carbon 9:12
bitty 45:16	bought 40:22	Bullock 48:5	12:9 12:16 12:18 13:4 13:12 13:19 13:21 14:13 14:14 15:8 15:12 35:9
blanket 27:20	box 42:3	bumping 12:23	
blue 12:5	BPA-10 29:24	bunch 9:3	
board 39:5	BPA-7 29:24	burden	
Boardman 11:9	BPA's 26:5 26:7 26:13	33:10 33:20	
35:5	Brand's 44:18	burning 43:3	
boards 22:11	Brandt's		
boil 47:1	44:10		
	Braun 54:8 54:9 54:10 56:8		

35:20 38:14	change	53:9	Cohen 48:25
53:7	17:23	56:13 56:17	49:1 49:1
53:16	25:7 35:2	climate-	50:3
57:4 57:7	56:17	related	cold 7:14
61:9	changed 16:2	57:8	28:12
care 48:15	changes 20:6	climate-smart	coldest 28:20
carefully 4:9	changing	56:25 57:23	collaborate
63:2	59:24	close 62:19	40:25
Carol 50:4	charge 31:21	closer 18:9	colleague
51:11	Charles 58:8	closets 28:8	2:15
case 9:10	charting	closing 53:25	Colstrip
34:3 34:10	25:13	closure 18:1	35:13
cases 10:2	charts 52:6	closures 35:5	Columbia
24:13	cheap 10:14	cloud 38:12	26:11
causation	49:15	38:14	combination
29:19	cheaper 12:15	Club 36:2	20:23 45:14
cedar 41:9	check 22:21	CO2 14:7	comes 50:2
Center	51:13	coal 11:5	comfortable
34:12 36:1	checks 51:24	11:8 11:9	57:11
Centralia	choices 51:20	11:11 11:11	coming 2:8
11:8 35:5	choose 15:8	11:19	5:20 8:2
Cents 49:3	20:13 61:19	12:1 12:4	10:23 32:20
49:16	62:24	12:10 12:15	45:15 54:12
certain 19:11	circled 41:11	12:21 12:22	60:16 62:11
19:17 27:21	citizens	13:8	commend 39:20
certainly	37:14 58:18	13:10 13:16	comment
17:2	classes	13:23 14:10	3:20 3:22
17:20 18:23	44:8 44:9	14:17 14:23	4:1 5:17
20:5	Clean 36:2	15:5 35:6	5:19
28:25 41:25	clear 34:19	35:15 53:25	38:23
48:18	clearly	coal-fire	39:2 61:19
54:3 59:9	4:16 15:7	36:10	commenter
chaired 39:22	climate	coal-fired	23:5
39:24	28:3 28:6	34:1 35:4	comments 3:24
chairing	35:2	35:11 35:12	4:5 4:6
56:11	52:19 52:20	35:21 51:5	4:11 5:8
champion 59:5		Coast 28:3	5:16 6:20
			16:7

23:11	component	56:19	24:5
29:7 29:8	10:7 11:2	57:1	26:10
36:11	38:10 42:1	57:13 57:17	43:7 46:25
37:3 50:9	components	57:25	contribution
58:6 59:6	11:3 36:21	consider 22:7	29:2 31:3
62:1	comprehensive	25:25	controls 19:5
62:20 62:24	29:14	consideration	convert 28:21
63:1 63:12	concept 36:24	29:18 35:10	co-op 7:21
commercial	concern 27:10	considered	27:1
7:18 25:6	27:20 34:23	4:9 39:8	31:25 37:11
27:4	42:11	consortium	37:23
28:22 42:8	concerned	32:16	39:4 39:9
Commission	27:18	constant	49:6
33:14	35:2	10:21	50:10
Commissioners	41:21 61:7	constantly	52:5
63:9	concerns	52:13	55:17 56:12
Committee	39:10	constituents	58:17
23:17 23:18	conclude	48:14	59:8
committees	61:22 63:14	consume 57:10	59:13 59:20
23:16	conditioned	57:14	60:1
common 29:16	28:7	consumption	cooperative
commonly 33:7	conditions	7:17 57:18	16:19 22:11
communities	7:13 8:21	contending	22:12
56:25 57:23	9:20	37:5	cooperatives
61:3	conduct 56:16	context 32:23	18:11 18:14
community	confident	33:5	22:5 33:24
43:7	38:19	continue 24:8	co-ops
49:10 52:15	congress 6:9	43:8	32:16 33:19
59:20 60:15	conservation	49:15 50:23	33:25
60:16 61:2	2:12 3:12	continued	34:7 37:4
compete	3:15 8:10	27:12 29:12	38:5 38:6
13:3 45:24	9:14 9:23	31:6 56:22	59:10
complaining	10:2 10:3	continuous	cormorants
54:19 55:17	24:23	59:2	44:10 44:18
completely	25:2 25:4	contract	46:10 55:19
48:7	25:7	31:20	Corps 43:22
compliance	25:10	contribute	46:8
36:3	55:1 55:2		46:15
			47:4
			47:21 47:24

correct 20:24 43:12	42:22 43:24 44:5	60:6	26:2
corridor 42:4	51:25	county-	30:16 30:17
cost 6:7 9:25	53:3 53:7	based 58:20	30:19 31:19
10:12 12:16	53:8 53:9	couple	42:23
14:14 14:21	53:20	21:20 23:11	cut 42:22
15:1 15:2	Council	29:22	cutter's 41:9
15:7	2:12 2:21	31:5	cutting 41:9
15:12	3:2 3:12	45:23	<hr/>
19:6 20:7	3:15 3:17	49:4 62:2	D
21:18	3:19 3:21	course 32:8	dam 47:5
22:7	3:23 4:9	32:13 44:22	dams 54:20
28:11 29:19	4:12 5:9	46:15	55:15 55:20
30:17 30:21	16:23 16:24	court 4:17	day 49:4
31:10 31:11	17:5	5:4	days 5:2
31:13	17:18	cover 19:17	5:6 28:21
37:5	18:7	covered 44:19	62:18
38:15 38:16	18:10 18:16	crawl 28:8	deadly 46:12
38:17	18:17 18:20	crazy 45:17	deal 41:17
47:5 52:4	19:20 19:25	creating	52:14 57:16
53:9	22:1 22:3	38:11	dealing 51:20
53:14 59:17	23:15	creation	debt 33:20
cost-	24:7	32:23	debts 19:17
effective	24:14 24:16	creative	decade
8:1 23:25	24:20 25:18	27:18	17:15 19:11
56:21	25:21 25:25	credit 30:19	decades
cost-	26:1 26:5	42:12	32:9 33:15
effectivene	29:20	critically	December 3:22
ss 30:9	30:5 31:1	36:8 54:5	5:7 62:21
30:13	32:25 34:19	cultural	62:25
costly	36:7	33:17	decided 33:13
29:23 35:11	37:13 38:22	currently	43:14
costs 12:9	39:11 43:19	22:6	decimating
12:18 14:13	43:25 47:10	25:17 35:25	46:14
19:1	62:14 63:4	customers	decision
21:13 26:12	Council's	7:17 7:18	59:16
27:19 29:21	3:13 4:7	7:19 25:6	decisions
30:6 30:8	5:10 5:14		
30:14	25:13 29:11		
31:9	country 2:10		
31:16 38:21	county 17:9		
	17:10 32:15		

4:10 25:25 59:14 deck 41:11 declining 19:10 degree 36:9 delve 29:24 demand 6:25 7:1 7:10 7:10 10:16 10:20 11:1 21:10 28:15 28:23 31:9 31:11 31:17 31:20 31:21 36:17 41:21 42:17 42:18 56:20 59:4 demands 34:22 demographics 17:23 50:14 50:17 demonstrably 36:19 demonstrate 34:10 37:9 dependence 57:2 depending 15:8 depends 50:23 deploy 42:4 deployment 28:1 28:13 depressed	21:13 deserve 24:13 design 22:6 desire 4:5 detail 36:24 determination s 33:16 determine 26:8 determining 27:21 detract 19:3 develop 3:15 7:8 9:17 22:1 24:11 37:8 developed 34:3 57:12 developing 9:13 37:2 development 6:21 8:1 8:11 9:2 15:19 devoted 5:17 difference 15:7 differences 27:22 different 21:3 21:4 40:4 40:6 44:8 53:3 54:13 difficult 20:14 22:11 22:18	26:8 27:13 42:10 48:3 48:7 59:13 61:10 difficulty 52:8 diminish 9:2 13:3 diminishes 11:23 diminishing 12:8 12:25 directed 7:6 29:23 direction 54:13 directive 30:4 62:15 Director 2:25 16:9 26:24 directs 3:14 disaster 33:8 disclose 35:24 disconnect 49:8 discussed 30:7 disparity 40:7 disruption 45:14 disruptions 57:8 distribution 29:20 Division 2:25	16:9 dollars 20:4 21:10 43:24 46:24 47:1 done 8:16 21:19 25:12 31:4 39:17 39:17 42:19 42:20 51:8 52:4 60:1 60:5 door 41:7 doubling 12:13 downstream 45:13 45:15 downtown 39:25 downturn 25:8 draft 2:2 3:19 3:22 3:24 4:1 5:13 5:18 27:9 29:14 30:16 36:16 62:5 drafting 3:6 drastically 28:13 dredge 44:13 44:15 driven 40:12 drop 13:14 13:17 drought 7:13 during 7:15 7:15 7:19
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

27:7	6:23 9:21	20:10 20:20	37:20 37:23
30:20 32:13	12:11 20:10	21:5	39:4
39:24 43:25	economics	21:10	50:10 51:12
dynamics 20:6	20:6 21:4	24:1	51:18 56:12
	35:18	25:14	58:17 59:8
<hr/>		27:2 27:5	electrical
E	economy	28:16 30:10	32:16 33:19
<hr/>	25:8 50:24	31:3 31:5	33:24 33:25
eagles	edition 32:19	36:12 36:13	34:7 37:4
41:10 48:18	educated	41:23 41:24	38:5 38:6
earlier	40:17	42:1 42:5	
19:9	education	42:11 53:25	electrician
21:11 22:15	49:23 59:23	59:1 59:3	49:3
53:6 59:6	60:1 61:3	59:11	electricity
early 4:10	educational	60:9 61:5	13:2 52:9
32:20 40:17	53:1	efficiency's	52:14
easily 5:19	EE 27:9	29:2	55:6 55:7
31:14 47:14	effect 9:1	efficient	55:24
east 32:6	18:22 51:9	55:2 58:23	56:5
34:2 39:3	effectively	effort 3:19	57:10 57:15
eastern 45:6	33:2	29:12 49:19	57:18 60:16
easy 27:23	38:15 44:1	49:22	Electricity's
46:12	effectiveness	efforts	55:10
eat 21:18	61:4	31:7	Electric's
44:25 46:19	effects 54:20	49:18 53:19	55:5
52:11	efficiency	egg 46:14	element 35:3
eaten 45:19	6:16 7:10	eight 33:2	Ellis 16:16
eating	7:20 7:24	either 40:10	16:17 16:18
46:18 55:20	8:9 8:14	electric 3:16	23:4
echo 23:11	8:18 8:20	16:19	else 43:4
24:23	9:3 9:10	17:6 17:8	44:17 61:17
Eckman 2:24	9:18 9:21	17:14 18:25	61:25 62:23
3:7 5:22	10:1	23:6	embedded 14:1
5:25 16:9	10:12 10:19	23:10 23:16	emissions
economic	11:2 14:1	26:15 26:25	14:7 53:7
29:18	14:24	27:1	emphasis
34:6	19:3 19:7	31:25	56:19 57:24
36:19 38:20	19:8	32:2	59:2
56:22	19:12 19:23	32:17 35:14	emphasize
economical	20:4 20:7	37:11 37:19	

57:1	43:4	entities 46:2	34:16 47:1
employees	49:15 49:21	environment	everybody
23:15	49:25	36:20 59:25	52:23
encourage	50:2	Environmental	everyone 23:8
25:23 59:22	50:15	34:11 36:1	everything
endemic 42:2	53:8	EPA 13:4	52:3
energy 7:10	53:25 56:19	13:20 14:3	evil 40:12
7:20 7:23	57:1 57:3	equation 12:9	exactly 20:18
7:24 8:9	57:6	equipment 9:5	examine 22:5
8:9 8:14	57:13 57:24	31:14	example 26:10
8:18 8:20	58:23 58:25	equitable	27:24 29:24
9:3 9:9	59:1 59:3	29:20	44:7
9:17 9:20	59:11 59:12	especially	50:19 57:14
9:25 10:1	59:25	18:11	59:14
10:11 10:19	60:6 60:9	20:2 22:5	examples
10:25	60:10 60:12	25:5	28:18
11:2 11:2	60:24 61:4	25:19 26:17	exceed 13:25
11:4 14:1	enforcement	38:4 42:24	excellent
14:23	36:7	establish	57:4
19:3 19:7	engage 62:14	4:23	except
19:8	engaged 3:17	estate	28:20 44:17
19:12 19:23	engaging 53:4	56:15 57:22	exhausting
20:4 20:6	engineer 50:7	estimated	28:12
20:9	Engineers	35:19	exist 27:22
20:20	43:22	estimation	55:9
21:5 21:9	46:8	37:1	existence
22:16 22:17	46:15	Eureka 16:19	35:12
23:25 25:14	47:4	evening	existing 9:10
26:24	47:21 47:25	2:24 3:6	11:13 12:15
27:2	engrained	4:5 4:14	35:21 36:9
27:23 27:25	62:13	4:22 4:25	exiting 11:17
28:17	enlightening	5:25 32:4	expected
29:2	52:24	32:7	17:14 24:5
29:17	enormous	34:23 50:11	expensive 6:7
30:9 31:3	38:14	51:7 58:15	43:17 55:25
31:4	ensure 6:23	event 4:20	56:5
31:12 33:13	entire	eventually	
35:16 36:13	12:23 25:20		
37:2 37:6	48:21		
41:5 42:1			
42:5			
42:22 42:25			

experience 17:15 33:6 52:24	family 2:16 63:5	22:24	47:22 47:24
experiencing 34:8	farmers 33:22 34:11	Findings 7:9	five 3:17 6:12 7:4 10:6 45:20 45:23 46:6
experts 3:5 56:24	fashions 61:20	finds 56:25	
exports 15:16	fate 34:16	fine 27:18 58:7	
extra 30:1	father 40:16	finite 54:14 55:6 55:25 56:1	five-year 3:18 34:24
eyed 34:20	favor 42:23	fired 34:14 35:16	fixed 22:7
<hr/> F <hr/>	favorably 58:1	firing 11:13	fixed- income 17:22
fabulous 49:16	federal 8:25 9:4 33:13 43:20	first 2:20 16:16 23:21 27:11 32:6 32:12 32:19 37:19 40:9 50:9 52:22 52:24	flat 8:17 10:4 19:10
faced 59:13	feel 4:17 16:12 33:4 50:12 58:12 62:20	fish 19:1 19:6 26:11 26:13 30:6 30:8 43:13 43:13 43:14 43:16 43:21 45:1 45:4 46:7 47:6 47:20 48:2 52:11 54:23 55:16 55:20	Flathead 17:10 23:6 23:10 23:16 26:15 26:25 27:1 31:4 31:24 32:2 37:11 37:23 39:4 42:20 50:10 51:12 56:12 58:17 58:19 58:19 59:7 60:6
faces 62:10	felt 47:9	firsthand 62:9	Flathead's 39:6
facilities 57:9	field 49:9	fish 19:1	flew 41:10 41:12
facility 23:7 32:14 34:13 34:14 40:11 59:15 60:6 60:8 60:10 60:14	Fifth 39:3	fish 19:1	flexibility 19:22 21:9
facing 35:10	figured 41:15 41:16	fisheries 43:22 46:1 46:4 46:4	flip 60:21
fact 17:1 27:5 28:7 30:18 34:24 39:13	figures 31:12		floor 61:24
factored 38:15 53:8	figuring 52:6		Flowers 58:14
failure 34:9	file 58:5		
fairly 6:1 13:14 15:11	final 4:10 28:14 31:1 36:14 36:16 36:18 59:3		
Falls 32:15 33:12 33:18 33:23 34:2	finally 9:23 13:4 36:25 61:6		
	financially 22:14 22:18		

58:15 58:16	8:22 9:9	54:6 57:7	11:14 11:16
focus 29:9	9:18	61:8	11:20 11:25
53:24	13:13	futures	12:3 12:4
folks 3:5	14:4 24:6	10:8	12:6
15:22 15:25	59:11 59:21	23:24 23:25	12:11 12:13
41:20 61:16	61:18	<hr/>	12:14 12:17
food 45:24	fossil 57:2	<hr/>	12:23 12:25
footprint	fossil-	G	13:10 13:12
35:20	based 38:18	game 45:4	13:21
footprints	founder 56:13	Gangerri 58:4	34:2 55:3
57:5	free 4:17	58:5	generations
force 47:18	16:12	garages	34:25 38:13
forecast 6:24	50:4 50:5	28:4 28:7	53:14
17:13 19:10	50:6	gas 8:2	gentleman
20:17 20:18	51:11 51:11	9:16 9:20	53:6
30:24	55:16 58:12	10:23 11:13	Germans 45:22
forecasted	62:20	11:16 11:18	57:15
7:3	freezing 28:5	11:20 11:25	gets 51:13
forecasting	front 10:15	12:3 12:6	52:6
25:1 30:2	40:23	12:11 12:11	getting
forecasts	fruit 27:15	12:14 12:17	26:8
8:16 14:2	27:16 57:17	12:23 12:24	30:17 30:19
20:16	fuels 38:18	13:2	given 41:22
forever 21:19	57:2	14:18 14:19	49:21
forge 18:9	fulfilling	15:5	gives 43:6
32:21	30:11	20:25	giving 17:7
forget 44:24	full 4:18 5:6	21:5 21:6	Glacier 52:19
form 44:6	29:8 37:24	30:22 30:24	Glad 2:9 23:8
former 2:21	fund 25:7	34:14	goal 6:22
forms 55:9	26:5	gas-fired	24:23 58:25
forth 50:13	funds 43:19	43:2	goals 14:3
Fortunately	43:19 43:23	general 16:18	20:1
33:12	future	23:9	36:13 36:13
forward 7:1	20:15 34:20	generate 57:2	59:3 61:9
7:4 7:24	34:25 36:22	generated	gone 42:21
8:8 8:13	38:9	55:8	gosh 45:8
	38:11 38:13	generating	governance
	53:14	8:11 23:18	
		generation	
		6:18 10:9	

48:9	56:22 59:1	having	56:14
governor 33:3	guess 16:17	20:12 27:16	here
48:4	18:3 19:4	27:17 48:16	(indicating
governors	21:8	52:7	3:7
24:19 47:19	40:18 47:25	54:11 54:19	he's 48:6
gradual 51:9	53:1	54:22	Hi 56:10
gradually	54:12 61:22	head 45:9	high 27:12
12:18	guest 60:9	health 53:9	36:17
grandkids	guidance	hear 15:22	40:5 41:5
53:17	7:6 24:17	16:6	61:13
grandmom 61:7	guys 22:3	30:23 54:18	high-
grandparent	31:15	hearing 2:3	elevation
35:1	<hr/>	2:19 3:11	5:23
grass 40:10	H	4:2 5:2 5:3	higher 24:8
great 13:5	habitat 54:24	5:5 5:10	24:18 28:11
33:23	half 45:9	53:2	46:22 59:17
34:2 57:16	45:19 57:19	62:19 63:11	historic
greatest 35:8	hamper 44:20	63:14 63:16	39:11
greatly 28:2	hand 15:4	hearings 3:23	historical
green 7:23	hands 3:1	62:4 62:7	32:23 33:17
10:19	hanging 57:16	heat 27:24	history
grid 57:8	happen	28:1	6:13 37:8
grocery 42:9	46:16 51:1	28:19 28:22	hit 45:24
group 33:25	happens 62:3	49:12	hits 51:16
52:19	hard 23:14	heaters 27:25	hold 3:23
growing 19:13	45:11 45:12	28:1 28:4	Holter
54:15	48:5	28:6	26:22 26:23
grows 12:18	hardball	heck 52:10	26:24
growth 8:13	47:15	held 2:4 3:11	home 31:14
8:21 9:9	hardly 21:18	59:10 62:4	homeowners
9:19 9:22	Hartman 52:17	Helena 2:16	56:15
9:24 10:4	52:18 52:18	47:25	homes 49:11
10:9	harvested	Hello 51:11	49:14 56:25
17:16	27:15	help 16:13	57:23 60:13
24:1 27:7	hatchery	26:5	honor 32:9
50:22 51:1	45:23	helpful 37:22	hope 4:24 5:5
		63:3 63:6	
		helps 15:19	

54:2	30:23	52:5	30:9
hopeful 31:15	32:7 35:1	53:12	51:23
hopefully	35:25	54:5 55:1	61:1 61:4
50:1	36:4	57:5	increased
hosting 23:6	36:15	importantly	9:12
house 54:11	39:2	4:8 38:13	11:14 27:19
houses 49:4	43:12	imports 15:15	28:11
49:13	49:2	imposed 33:8	increases
huge 12:12	49:17	improvement	10:12
51:24	50:6 50:6	29:18 29:22	15:1
hydro 19:2	50:14 50:16	improving	21:20 51:24
43:1	51:11 51:13	57:17	increasing
hydroelectric	52:10 52:11	incentive	30:11 57:3
32:14 60:17	54:12 56:11	37:21	increasingly
	56:12 58:16	incentives	35:1
	58:17 61:24	57:25	incredible
	immediate	inclement 2:9	40:3
	8:10	include	Indians 33:19
	immediately	16:5	indicate 38:5
	41:11	28:11 35:5	indicating
	impact	included 4:19	3:3 4:4
	17:18 21:16	26:12 26:14	16:5
	impacts	50:18	indicators
	35:2	includes 35:9	41:4
	38:19 54:4	including 5:9	individual
	implement	5:13 9:5	38:2
	31:11 31:18	24:18 26:15	individuals
	implementatio	27:3	32:10
	n 28:2	29:25 32:11	industrial
	importance	32:16	7:17
	53:13 59:19	33:9	17:25
	important	35:12	25:6 27:4
	14:20	45:2 58:22	industry
	18:5	income 17:21	29:15 59:19
	18:13 18:19	increase 12:6	inefficient
	19:5 33:4	12:12 12:19	14:19 15:5
	34:18	15:2	inflation
	35:7	15:11 17:20	
	36:21 38:10		
	42:18		

I

I-5 42:4**I'd** 16:16

16:21 21:25

23:5

23:21 24:22

29:11 41:16

60:20

Idaho 47:13

48:13

idea 50:25**identify** 7:2**I'll** 7:1 17:7

29:6 58:5

58:5

ill-advised

33:10

I'm 2:11 5:22

15:14 15:21

16:18 21:23

23:9

26:24 29:8

NAEGELI

DEPOSITION AND TRIAL EXPERTS

N**800.528.3335**

NaegeliUSA.com

51:16	54:1	25:19	60:7
influenced	investment	47:9 63:5	landmark
29:21	42:13	jeopardize	33:18
information	investors	34:6	Lane 49:2
5:12	38:3 56:15	job 9:22	large 28:1
34:12 36:1	involve 6:21	25:21 60:2	42:8 45:5
inherent	involved	jobs 51:8	largely 7:17
30:15	3:6 23:16	John 50:4	largess 54:20
input 11:20	23:19 32:11	50:6 58:4	last 15:15
16:7	36:4 39:9	Johnson	21:19 21:25
in-region	49:20	23:5 23:8	22:21
15:19	island	23:9 26:21	32:8
inside 41:13	44:13 46:13	<hr/>	39:24 43:15
install 31:13	islands 44:11	K	51:3 58:11
installation	isn't 20:18	Kalispell	lastly
28:11 31:16	issue 24:20	32:6 39:3	21:23 25:18
installed	28:14 35:10	42:7 62:5	latest 3:18
37:18	53:14	Kallner 49:2	law 24:14
instance	55:5 55:22	Key 7:9	37:18 38:3
20:25	issues 29:9	kicks 62:5	leader 37:12
instead	29:17 29:25	kids 53:17	leaders 44:3
12:8	32:11	60:7 60:10	leadership
13:15 20:12	47:7	kinds 7:8 9:7	24:21 59:6
intend 4:13	47:12 52:14	known 45:3	leads 36:22
interdiscipli	item 24:22	Kootenai	50:1
nary 56:24	items 29:23	32:14 33:12	least 53:14
interest 13:5	30:2	33:18 33:18	least-cost
25:24 26:2	I've 16:1	Koreans 45:21	10:14
interesting	17:4 32:9	kW 37:18	leave 4:4 5:1
39:25	39:15 39:22	37:24	5:5
Interestingly	47:9 48:4	<hr/>	led 33:6
32:18	52:25 56:18	L	legacies
interests	<hr/>	lack 19:15	32:24
26:3 26:20	J	ladder 27:16	legacy
Internet 56:3	Japanese	Lake 40:23	33:17 34:9
investing	45:21	landfill 43:2	less 9:20
	Jaquet 58:8		
	Jennifer 2:15		

9:21 12:10 15:18 22:17 51:9 lethal 46:9 let's 15:22 28:24 level 6:12 9:15 12:20 13:10 13:18 14:3 27:13 41:5 levels 27:12 60:1 life 55:9 58:22 light 27:22 42:6 60:21 lighting 28:22 lights 60:24 likely 20:17 28:5 28:21 likewise 36:16 limit 4:23 13:20 21:20 limited 60:15 limits 46:9 Lincoln 16:19 17:6 17:8 17:9 17:14 18:25 32:15 32:16 55:5 55:10 line 10:10	10:11 12:5 link 5:17 lions 44:23 46:10 48:12 55:21 list 15:25 16:3 26:22 48:25 58:12 58:13 listened 63:2 litigating 35:25 litigation 32:13 36:4 little 6:13 8:2 10:22 11:24 12:17 17:7 17:15 24:3 30:10 40:22 41:8 41:9 41:21 42:25 43:11 44:6 45:3 45:16 47:15 live 2:13 20:11 39:3 49:2 52:20 54:10 57:11 lived 54:20 lives 45:18 57:12 living 40:19 LLC 56:13 load 8:13 8:15 8:19	8:21 9:9 9:14 9:19 9:22 9:24 10:4 10:9 17:16 17:24 19:9 24:1 27:6 30:2 30:19 59:1 loads 7:11 8:12 8:18 local 37:4 37:13 37:14 56:16 57:3 locally 35:17 43:7 located 28:4 28:7 long 7:20 9:24 27:1 43:15 longevity 49:23 loss 2:16 lost 52:6 lot 3:5 15:10 15:16 15:16 30:18 31:4 37:21 50:15 50:23 51:7 52:10 52:11 55:16 55:21 56:2 56:5 60:19 low 7:12 9:16 9:20 17:21 52:4 57:16	lower 9:23 10:1 13:19 21:2 55:15 lowest 20:7 low-hanging 27:15 low-income 17:21 20:5 <hr/> M <hr/> mainly 18:1 maintain 52:4 major 17:18 17:23 majority 26:5 man 16:22 manage 22:22 management 56:20 manager 16:18 23:9 39:6 managers 22:12 manages 60:17 managing 23:2 mandated 24:9 mandates 24:11 mandatory 49:20 manner 55:3 margin 21:6 marginal 30:14 31:18
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

margins 19:17	mechanical	51:12	minus 9:18
mark 23:5	50:7	52:5 63:4	minutes 40:10
23:9 55:13	media 34:21	63:9	46:6
market 9:13	medical 51:20	mention 62:2	Missoula 2:14
10:3	51:22	mentioned	40:1 62:6
30:21 30:22	Medicare	12:1 16:8	mistakes 6:5
markets 10:17	51:21	19:9	mitigate 8:13
57:7 57:22	medicine	22:15	mitigation
married 40:16	41:15	31:2	30:1 57:4
master 49:2	meet 6:25 7:3	39:12 62:17	MMTE 13:15
matter	7:11 9:24	63:5	13:16
15:16 20:15	10:9	met 24:1	14:8
maximum 14:16	10:17	32:12 45:17	14:12 14:15
may 4:4	11:3 13:6	metering	14:16 14:22
5:16 20:1	20:21	37:24	14:24 15:6
20:24	27:6 58:25	49:6 59:12	mode 28:22
21:3	meeting	meters 17:9	model 23:23
32:12 41:24	9:22 14:3	methodologies	59:10
43:11 50:23	39:16 40:10	37:9	moisture 2:10
52:12 52:12	42:10 52:24	Methodology	moment 7:2
56:2 56:3	61:23	30:15	MONDAY 2:5
maybe 19:7	meetings	mid 40:19	money 15:10
54:13	39:23	migrating	19:18
55:8 55:9	meets 9:19	22:7	20:9 26:9
62:8	melled 30:17	Migratory	51:14 55:16
Mayre 58:13	Melissa 52:17	44:20	monies 19:24
58:16	52:18	Mike 62:8	Montana
mean 27:19	member 2:21	milder 28:3	2:11 8:6
means 19:14	16:22 26:24	milestones	16:19 18:12
Measure	52:19 56:12	25:10	26:8
2:21 33:1	58:18	million 26:12	26:10 26:14
38:25	members	26:16 43:18	26:17 29:21
39:1 39:2	2:11 3:2	47:2 50:19	33:2 33:9
48:17 48:19	17:22 18:14	mind 16:3	33:24 33:25
measures	21:12 21:18	52:13	34:6
27:21 28:16	21:22 22:23	minimal 18:6	34:11
42:11	22:25 22:25	minimize 57:6	36:1 39:3
54:5 57:17	23:15 25:20		42:7 47:9
	26:15 26:17		

48:9	44:19 46:4	noise 28:12	occur 7:12
52:21 54:10	natural 8:2	none 11:6	occurs 62:23
63:9	10:23 11:13	nongas 12:13	ocean 45:24
Montana-based	12:11	nonprofit	46:3 46:22
56:14	13:1 13:2	19:16	oceans 53:10
Montana's	14:18 14:19	nor 25:1	October 3:20
26:2 26:4	20:25	normal	offer 61:25
months	21:5 21:6	51:17 52:1	office 32:6
31:20 31:22	30:22 30:24	north 2:14	37:18 47:24
49:11	34:14 46:17	11:10 11:11	47:25
mostly	46:18	16:20 35:6	offices 47:23
20:17	nature 25:5	Northern 17:9	official 4:19
29:9 53:18	nearly	northwest 2:2	5:1
mother	40:18 42:21	2:12 2:21	offshore 46:5
40:16 40:20	57:14	3:2 3:12	oftentimes
mouth 44:14	necessarily	3:13 3:14	40:9 42:2
45:5 45:6	14:5 36:24	17:10	oh 45:8 46:16
45:12	necessary	21:7	Okay 10:16
move 48:21	4:24	22:20 24:19	56:6 58:7
59:11	24:15 29:20	32:21 32:23	58:11
moving 24:5	33:10	33:9	old 40:18
45:11 45:13	Needle 40:1	57:16 57:19	ones 45:16
50:17 50:20	negotiate	57:24 59:24	one-third
59:21 59:24	46:1	62:13	27:6
multiple 9:7	neither 44:18	NorthWestern	online
MW 9:18 10:21	nest 44:11	35:16	34:15 38:7
14:2 20:13	net 8:15	note 61:6	open 5:1
myself 32:7	9:9 9:14	noted 25:10	5:5 5:7
38:3	37:24	43:18	36:11
48:10	49:5 59:12	noticed 41:13	50:8
50:6 58:17	Nevada	noting 53:19	54:11 55:13
	11:10 12:5	NOVEMBER 2:5	61:19 61:24
<hr/> N <hr/>	night 56:7	nudge 60:22	62:18 62:25
nap 48:23	62:6	numerous	63:13
narrow 30:16	NOAA 43:21	32:10	operate 12:15
nasty 48:12	45:25 47:22	<hr/> O <hr/>	operated
nations 57:13	nobody 44:20		
native			

22:25	outcome 21:3	49:20	52:8 53:8
operating	outcomes 25:2	participate	53:15 54:19
29:25 47:5	outer 15:18	38:7	54:22
operational	outlook 27:8	participated	paying
28:10 29:25	out-of-region	49:3	18:15 26:18
operations	10:16	participating	52:10 52:11
30:3	output 13:3	37:17	pays 47:3
opportunities	outside 33:23	participation	peak 7:11
29:17 61:1	outstanding	29:13	7:15 7:19
opportunity	59:8	particular	10:17 10:22
17:4	overbuilt	8:24	57:25
23:20 29:15	6:11	10:10 12:12	peaks 31:7
32:20 38:22	overestimated	12:19 14:21	43:6
43:6	31:10	17:12	people 3:1
opposing	overforecast	18:2	7:16 16:1
34:12	6:9	39:13	16:10 20:11
optimistic	overstated	42:3 53:4	39:1
27:8	31:4	58:25	39:12 39:14
options 36:9	oversupply	particularly	40:7
oral 3:24 5:9	30:1	6:6 51:10	47:16
order 3:10	overview	partners 38:3	49:9
4:14 14:6	3:8 5:23	pass 20:18	50:17 50:19
14:24 34:19	6:1	58:5	50:20 51:10
Oregon 8:6	owned 22:24	passed	52:7
11:9 45:4	owner 35:15	21:17 21:21	54:19 54:23
47:13 48:12	35:17	past 17:2	55:25
organization		31:5 33:15	56:1
4:16 58:20		Pat 2:11	62:11 62:11
organizations		6:1 7:5	per 31:14
22:20 22:23		15:22 16:22	57:15 57:17
32:10	p.m 2:6 63:17	25:19	57:19
others	Pacific 33:9	32:4	percent
32:17	paid 19:18	32:25 41:24	6:12 15:1
40:2	26:14	43:11	15:2
41:25 45:23	paper 22:1	47:8 56:10	17:24 17:25
59:9 62:9	Park 52:20	path 12:16	21:14 23:25
ours 20:2	participants	13:12	26:16 28:23
		pay 7:16 49:9	28:24
			29:1
			35:20 37:20

48:13	3:16 3:16	planet	pleased 32:22
percentages	3:18 3:20	54:14 55:10	56:18
51:24	3:22 3:25	planning	plus 9:18
performed	4:2 4:8	32:21 32:24	point 3:8
25:15	4:10 5:13	39:12 51:1	23:21
perhaps 50:25	5:14 5:18	plans 52:12	29:1
period 5:2	5:24 6:2	plan's 7:6	39:15 39:20
6:9 8:17	6:5 6:21	28:14 56:19	40:23 41:20
27:7	6:22 7:4	57:24 58:25	43:16 46:12
30:20 38:2	10:7	plant 11:8	53:11
periods	16:25 18:21	11:9	points 42:12
7:12 7:15	18:21 19:22	11:11 11:11	policies 9:11
permitting	23:13 23:22	12:21 13:16	13:19
34:13	24:11 25:10	14:23	14:7
person 58:11	25:17	34:2 35:4	17:17 18:17
personal 61:6	27:9	43:2 50:7	22:2 22:3
perspective	28:16 29:10	59:14	57:7
50:1	29:12 29:14	plants 9:4	policy 9:10
per-unit	31:1 31:9	11:5	15:8
31:11	32:19 34:24	11:19	15:13 27:23
phenomenon	35:3	12:1	48:13 49:15
14:20	36:14 36:18	12:15 12:22	politically
picks 11:23	36:21	13:2 13:8	22:10
picture	37:1	13:11 13:24	pollution
7:23 8:9	39:13 39:16	14:10 14:17	35:9
Piranha 45:10	39:21 39:24	15:5 15:5	38:14 53:17
place-based	41:3 42:2	35:6	61:9
56:16	42:17	35:11 35:12	population
placed 4:7	43:9	35:16 35:17	40:5
28:6 34:22	43:14	35:22 36:10	56:22
places 20:8	47:2 47:4	43:1 43:1	60:3 60:4
20:10	48:16	51:6 54:1	portfolio
placing 18:18	49:8	play 21:4	7:22
plain 51:12	50:12 50:16	23:1	10:18 23:22
plan 2:2	51:4 51:5	47:10 47:15	23:23
3:7 3:13	53:4	55:4	24:5 24:10
	53:25	plea 18:8	portfolios
	55:1	4:2	8:7
	56:18 58:24	4:15 5:14	portion 35:15
	59:3	27:23	
	59:22		
	61:2		
	61:12 62:5		

40:5	36:7	prespawning	42:15 45:25
Portland	36:10 37:10	44:25 45:1	problems 42:1
21:25	37:13 39:16	pretty	48:9
position 39:6	39:21 39:24	10:21 15:11	procedures
58:1	41:3 43:1	41:15 45:11	2:23
possibilities	43:2	45:12	proceed
34:20	43:14	48:1	2:24 3:9
possibility	47:2	50:11	15:25
35:23	47:22 48:16	51:4	proceeding
possible 5:11	51:5	55:23 60:21	33:13 34:17
18:6 35:9	57:11 57:24	prevent 6:5	proceedings
52:4	59:15 59:17	6:14	5:4
posted 5:10	62:13	price 9:13	process
potential	power-related	9:20 10:3	8:23
27:21 27:25	32:11	12:10	16:25 23:13
power 2:2	practically	13:1 13:2	23:19
2:12 2:21	47:14	20:25	25:1 41:6
2:25 3:2	prayer 40:14	prices 9:16	41:16 48:8
3:8 3:12	predators	21:2 21:7	produce 11:17
3:13 3:14	44:8 44:9	30:22	29:12
3:16 3:18	44:22 46:11	pricing 57:7	produced
3:19 3:22	predict 20:15	primarily	37:20 37:25
4:2 4:8	predominant	44:11	produces
4:10 5:13	7:25	principal	37:19
5:18 5:24	premium 57:22	6:22 10:7	production
6:7 6:8	62:11	11:1 11:3	37:10 38:18
6:16 6:23	preparation	principles	57:9
10:4	40:15	29:19	productive
11:21 15:17	preparatory	priorities	57:11
16:9	48:22 48:23	6:18	professional
16:25	presentations	priority	29:14
21:6	16:11	36:18 61:12	professionals
21:13 23:13	presented	61:13	56:15
23:22 24:11	39:6	probably	program
32:19 32:21	preserve	21:11 22:10	6:25 19:6
32:24 33:11	60:12	43:15 46:21	26:11
33:15	preserving	49:13 51:4	30:6
34:5 35:4	36:17	problem 4:22	42:18 43:13
35:11 35:12			
35:16 35:22			

43:13 43:14	24:14 24:17	7:9	33:8 53:21
43:16 46:14	24:21 27:24	quantity	rates 6:11
49:4 49:5	37:1 43:4	31:20	17:19
49:16 49:17	61:2	question 16:7	18:6
programs 22:2	provided 4:3	25:22	19:15 21:16
26:6 26:7	provides 43:5	questionable	21:17
26:13	providing	37:5	26:4
27:2	52:14	questions	26:13 26:14
31:17 37:22	Provisions	16:12 16:14	30:8
61:5	36:3	quick 6:1	42:24 46:22
projections	public 2:3	quite 9:24	ratio 15:7
33:11	3:11 3:20	21:18 50:20	Ray 16:16
projects 42:3	3:23 5:8	53:4	16:18 23:12
pronunciation	6:21	<hr/>	23:12 24:24
58:9	61:23 62:14	R	49:9
proper 30:14	Puget 31:12	raise 3:1	razor 45:6
properly	35:14	19:14	RE 2:1
38:21	pull 22:12	raises 12:10	reach 27:16
prophecy	pump 27:24	ramifications	27:17
30:11	28:1	56:6	60:2 60:3
propose	28:19 49:12	ranchers	reached 27:14
18:7 34:1	purchase	33:23 34:11	readily 42:4
proposed 3:13	59:21	rancor 34:21	readiness
5:12	purchased	range 20:14	56:17
32:14	55:11 59:16	20:20 25:15	reading
33:5 35:4	purchasing	rank 14:6	29:9 48:22
51:7	59:15	rate 21:20	real 8:8
proposes 35:3	purple 10:20	22:6 22:8	49:23 56:15
proposing	purpose 4:3	30:15 30:18	57:22
39:18 39:19	16:6	30:20 30:21	realities
protected	push-back	49:14	28:10 29:19
45:1	22:19	ratepayer	realize
proverbial	putting 50:15	46:25 51:17	19:6
27:14	<hr/>	52:1 52:13	25:18 38:1
provide	Q	ratepayers	realizing
5:17 8:11	quality 58:22	26:4	52:1
11:20 24:7	quantities	26:10 26:15	real-life

28:18	recognizing	29:3	region's 6:10
really 8:10	59:19	referenced	7:7 11:21
17:3 18:5	recommend	36:11	35:20 37:2
18:9	20:19	referred 33:7	region-wide
18:19	recommendatio	reflect 24:25	14:25
20:9	n 25:14	refresh 30:23	regulatory
22:13	recommendatio	refuge 40:24	32:2 33:14
30:2 34:4	ns 19:21	regard	reiterate
34:5 35:7	record 4:7	37:12 37:16	19:4 53:11
35:7	4:19 5:1	region 6:20	related
40:25	5:3 5:6	11:6	25:5 56:17
41:2	31:6 32:5	11:18 11:18	relating
41:18	34:3	12:23	25:13
48:6 48:9	61:19 62:25	13:5	relationship
48:11	recorded 4:6	13:10	18:10
49:8	recourse	14:8	relative 14:4
49:19	20:21	14:18 15:16	released 3:19
53:1 53:5	recovery 22:7	15:18 15:19	reliable 6:23
53:12	red 10:11	18:2 20:2	relying 26:19
54:2	reduce 7:16	24:21 25:20	41:23
54:16 61:8	7:19 13:1	25:24	remain 61:19
Realty 56:13	35:19	26:3 28:2	remarks 39:7
real-world	57:1 57:4	30:24	remember
27:24	57:25	31:8 40:4	41:24 41:25
reason 8:12	reduced 44:5	40:5 40:6	remodeling
22:9	reduces 19:12	42:12	37:17
reasons 25:9	reduction	43:9 52:2	remove 46:20
receive 3:24	15:8	58:1	removed 38:12
received 25:2	15:12 15:13	58:21	48:8
recent 37:17	28:20 28:23	59:7 62:4	renewable
recently 2:17	28:25	regional 3:15	6:17 8:6
33:22	29:1 29:3	6:4 14:3	12:24 12:25
recession	35:8	18:21 18:21	24:3
17:11	53:16	23:23 24:23	24:10 24:12
recognition	60:9 61:9	27:22 29:16	37:2 54:1
54:4	reductions	37:13	57:3
recognized	14:14 28:15	regionally	replaced
59:9	reexamined	13:6	
		regions 56:23	

11:13	24:5 54:14	retain 61:13	49:5 49:14
Report 26:12	resources	retire	Richard 48:25
reporter 4:17	6:10 6:17	11:19 11:25	49:1
5:4	6:17 6:18	12:22	rid 55:14
reporting	7:2 7:8	13:8	ridiculous
30:1	8:11	13:12	44:6
represent	10:17 10:22	14:9 15:4	risk 56:16
18:11 50:11	12:24 12:25	35:21	risks 57:6
representativ	15:20 23:18	retired	river 26:11
es 47:19	24:4 24:4	12:2 50:7	44:14 55:15
47:21	24:12 24:16	51:21	robust 27:2
represented	37:3 54:1	52:2 56:1	rocks 44:15
33:22 34:10	58:22 58:23	retirement	Roger 32:3
representing	respect 6:6	11:9	32:5 62:8
32:7 32:9	7:7	11:10 11:12	role 23:1
33:2 50:6	respects	12:22	47:10 47:11
58:17 58:18	18:13	13:9	rolled 47:3
represents	respond 56:21	13:23 13:25	rolls 47:4
12:5 51:4	response 7:10	14:23	room 3:6
request	7:11 8:5	retirements	16:10 16:13
24:6 36:25	10:16 10:20	11:6	36:23 60:11
require 22:4	11:1	13:16 14:11	62:9
required	21:10	retiring 11:5	rooms 28:8
19:11 22:16	31:9	14:17 35:10	Ross 26:22
requirements	31:11 31:17	51:5	26:23 31:2
18:17 24:9	36:17 41:21	retrofit	roughly 9:13
requires	42:17 42:19	28:23	RPS 14:25
37:12	56:20 59:4	revenue 19:12	14:25 24:18
reserves 30:1	responsibilit	19:15	rules 13:4
residential	y 19:1	revenues 19:4	run 40:6
7:18 27:4	responsible	review 3:16	40:21
57:22	25:20 54:16	3:18 3:20	rural 29:18
resource 6:19	result 9:8	4:8 36:3	31:19
6:25 7:22	28:19 28:24	reviewed	Russ 29:4
7:25 8:6	resulted	56:18	32:1
9:2 20:7	26:16	revise 7:4	
23:17 23:22	retail 22:5	revised 3:19	
	retailer 42:7	rewards	
	42:8 42:8		

Russians 45:22 <hr/> S <hr/>	scrap 34:17 scrutiny 24:13 24:15 sea 44:23 46:10 55:21 Seattle 39:25 second 24:22 27:20 49:14 59:5 sector 42:21 sectors 27:4 Security 51:15 51:23 seeing 21:2 51:22 51:24 seem 29:23 30:4 31:9 seemed 55:17 seems 31:3 seen 17:20 45:18 59:7 self 30:10 sell 22:16 34:17 55:12 Selling 15:18 sells 15:16 sending 45:25 sense 34:20 36:20 36:20 sensitivities 20:16 serious 35:23 seriously 62:16 serve 17:8	served 33:1 Service 43:21 46:7 47:6 47:20 services 26:25 56:3 servicing 33:21 seven 48:19 48:19 48:24 seventh 2:2 3:13 5:13 5:18 5:24 16:25 23:12 23:22 24:11 33:5 41:3 several 32:17 shad 45:6 shake 41:9 shakes 41:9 shape 44:5 Shaping 30:19 share 26:9 57:3 sharp 45:7 shave 43:5 sheet 4:3 She'll 63:7 ships 44:14 short 41:22 shoulder 17:10 showed 59:20 shows 23:24 shrift 41:22	shuffling 60:20 sic 8:5 Sierra 36:2 sign 4:2 16:4 48:18 58:12 signed 3:10 4:15 16:1 16:1 61:16 significant 13:14 15:11 15:12 35:15 36:9 40:7 significantly 9:12 12:10 signs 51:13 simply 15:4 single-target 24:23 sitting 48:20 situation 16:8 63:6 six 3:25 Sixth 39:15 42:16 six-year 25:14 size 45:8 slag 43:3 slice 10:20 slightly 54:13 slow 28:13 small 34:14 45:5 45:8 45:12 48:1
--------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

smaller 35:17	61:7	spoke 52:23	statute 7:5
smallest 18:22	Sorry 32:2	sponsored 32:15	statutory 24:8 62:14
SME 33:24	sort 2:23 16:6 16:23 49:17	staff 3:1 3:2 16:10 16:13 23:14 29:11 39:6	stay 63:13
smelts 45:13 45:15 45:23 46:2 46:21	Sound 31:12 35:14	stakeholder 29:13	stays 8:17 12:7
Smith 2:8 2:11 15:24 23:4 26:21 29:4 31:24 32:3 32:12 32:25 38:24 48:17 48:24 50:3 52:16 54:7 56:8 58:3 58:7 58:11 61:15	source 28:19 36:3	standard 49:13	steady 12:7
smudge 40:11	sources 37:6 59:18	standards 8:25 9:4 24:10 24:18	Stellar 44:23
Snake 55:15	south 2:13	standing 41:14	step 25:23
Social 51:14 51:23	Southern 33:23	start 7:9 14:22 16:21 17:7	Stephen 54:8
society 52:9 53:21 59:23	southwest 15:17	started 16:15 46:14	Steve 48:5 54:10 56:9 56:11
solar 8:3 24:4 24:12 37:18 38:20	Space 40:1	starting 8:4 13:21	stick 45:20
solution 10:14	spaces 28:8 28:9	starts 11:22	Stoltze 43:3 59:15
solved 42:15	speak 17:5 27:23 38:19 58:24	state 11:7 11:7 13:6 14:5 63:10	stop 15:14 15:21
someone 60:23	special 58:21	statement 3:9 4:19 14:5	store 42:9
	specific 20:13 22:16 23:1 24:24 25:9 25:16 49:7	stated 62:3	stores 42:4
	spent 26:17	statement 3:9 4:19 14:5	story 8:8 10:25
	spirits 40:12	statements 50:10	straight 14:4
	spoiler 47:11	states 3:25 13:20 24:8 24:19 56:23	strange 21:24
	spoils 44:11 44:12 44:15 46:13	stating 4:16	strategies 56:21 57:4 57:5
	Spokane 39:16		Strategy 23:17
			Street 39:3
			strikes 53:2
			strong 36:12 59:2 61:9
			stronger 37:1

strongly 36:12	Super 49:3 49:16	switch 60:21	technology 14:16
structure 49:14	supply 6:23 10:23 11:21 42:22	switching 42:6	teeth 45:7 45:9
structures 49:24	support 18:25 18:25 19:2 36:17 36:23 50:10 53:19 53:24 56:19 58:24 59:2 59:12 60:14 61:2 61:8 61:12	system 10:12 15:1 15:3 19:2 60:17	temperatures 28:5
struggling 52:3		<hr/> T <hr/>	ten 5:2 5:6 10:6 62:18
stuff 55:1		table 16:4	term 33:3 43:25
sturgeon 45:2		tabulating 28:17	terminology 29:16
submit 5:16 29:7 62:20		tail 8:3 8:4 8:20	terms 6:19 9:22 37:4 38:18 41:16 57:13
submitted 4:11 5:8	supported 36:15	talk 3:5 23:21 24:22 43:11 46:9 47:18 47:19 47:20 60:13	Tern 44:17 46:14
subsidized 54:21	supportive 36:15	talked 21:24	terns 44:10 55:19
substitute 12:3	sure 16:5 18:5 30:23 36:15 40:11 40:12 50:14	talking 19:7 55:18 60:8	tested 23:24
substituting 14:18	surplus 15:17	tangent 54:13	testify 4:13 16:2 62:12
successfully 34:12	surprised 24:2	Tar 49:10	testimony 3:10 4:15 4:18 5:9 6:2 61:18 61:23 62:9
suggested 18:16	survival 46:23	target 20:20 24:24 25:17	text 5:13
suggests 17:18	survive 22:14	task 34:18	thank 2:8 5:20 5:25 15:24 16:24 23:4 23:6 23:7 26:20 26:21 26:23 29:3 29:4
suite 27:2	sustain 58:20	taxpayer 47:7	
Sullivan 32:3 32:4 32:5 38:24	sustainabilit y 27:11	teacher 60:22	
summarize 4:18	sustainable 36:22 38:11	team 56:24	
summarized 35:19	swam 46:13	technical 29:9	
summer 31:7 43:15	sweet 40:10	technologies 38:8	

29:6	they've 45:18	totally 54:25	28:24 38:16
29:11 31:22	third 45:2	tough 25:21	truly 38:10
38:24 48:16	Thompson 56:9	40:22	38:17
48:17 48:25	56:10 56:11	tours 60:5	trustee 39:5
50:2 50:3	58:3	towards	truth 41:3
51:10 52:16	thoughtful	20:5 27:9	try 16:13
52:22	54:3	trade 55:6	32:20
54:6 54:7	thoughts	transcript	trying 6:4
56:8 58:2	40:13	62:17 62:19	6:14 6:19
58:3	thousands	62:21	60:2
61:14 61:15	46:21 46:21	transcripts	turbines
63:14	throughout	63:3 63:8	11:18
thanks 23:3	33:9 62:4	transformers	turn 5:22
38:21 54:11	Tier 30:18	9:6	19:14 48:10
56:6 56:10	Tiered 30:15	transition	60:23
therefore	tiny 42:25	61:10	turned 16:17
17:17	today 9:11	transitional	turnout
there's 8:2	11:19	38:1	2:18 5:21
8:10	12:7	transparency	twice 28:17
13:14 14:21	33:21 40:15	39:21	57:14
15:7 17:4	52:9	transparent	type 40:14
17:22 19:22	Tom 2:24 5:22	17:1	42:13 42:13
25:22 47:23	15:24	23:13 39:14	42:23
47:24 61:23	16:9 41:25	treaties 46:1	types 42:10
61:24	tomorrow 62:6	treatment	44:23
62:4 63:9	tonight 2:9	28:14	<hr/>
63:12	2:17 2:18	tree 41:15	U
Thereupon	4:6 5:21	48:21	U.S 43:21
63:16	23:6	triangulate	44:19
thermal	41:18 56:11	47:12	46:7 47:6
6:17 10:22	58:16	tried 20:3	47:20
they'd 39:8	tonight's 5:9	44:1	Ultimately
60:21	tons 42:5	tries 48:5	34:13
they're 36:14	42:5 42:5	trouble 26:18	uncertainty
36:21	top 42:16	48:11	24:25
45:8 45:9	total 63:10	true 4:11	unclouded
45:10 45:10			34:21
45:15 45:16			
46:18 49:13			
56:14			

uncritically 33:11	60:19	view 30:16	week 21:25
underestimate d 31:10	utilities 7:7 9:6 20:1 22:4 22:22 24:9 37:14 38:4 53:22	vintage 30:24	weeks 3:25
understand 14:20 18:24 19:25 22:10 25:21 34:16 49:25 61:10	utility 19:13 19:16 23:2 28:8	virtually 28:6	welcome 2:22 3:11 61:17
understanding 18:18 30:14 60:5	<hr/> v <hr/>	vision 37:1	we'll 2:23 2:24 3:9 5:4 5:5 16:5 16:15 17:15 53:20 62:6
understands 48:7	valley 31:5	visit 5:14 31:14	we're 6:1 6:4 6:13 6:14 6:19
unfortunately 53:20 54:15	Valmy 11:11 11:11 35:6	vital 59:19	walked 41:7 12:21 15:24 19:7 21:2 21:20 22:13 22:14 22:16 31:15 34:8 38:1 40:13 40:20 46:2 51:11 51:12 51:14 51:20 51:21 51:24 54:16 54:22 57:12 61:21
UNIDENTIFIED 58:10	valuable 49:21	volatile 57:6	warmed 6:3 21:20 22:13 22:14 22:16 31:15 34:8 38:1 40:13 40:20 46:2 51:11 51:12 51:14 51:20 51:21 51:24 54:16 54:22 57:12 61:21
unique 47:10	value 49:23	volunteer 49:19	Washington 8:6 11:7 45:5 47:12
unit 31:13	variability 25:1	wasn't 43:15 60:19	west 12:4 28:3 62:7
units 28:10	variable 24:3	waste 60:8	Western 18:12
unless 63:12	varies 28:2	water 7:12 27:25 28:1 28:4 28:6	we've 17:20 20:3 31:6 40:11 42:19 42:20 43:1 54:20 58:19 59:7
unlikely 4:20	various 14:13 28:16 42:12 52:12	ways 29:15	whatever 20:17 47:14
unprecedented 8:24	version 29:8	weather 2:9 57:7	whatsoever
unpredictable 25:5	versus 14:22 20:7 21:5 25:16	weatherizatio n 20:5	
unreasonable 30:25	vertical 11:16	webpage 5:17 5:19	
update 10:8 31:1 33:5	viability 34:6	website 5:10 5:14	
upon 34:22 57:2	viable 22:24 38:20	wedge 7:24 10:19	
upstream 44:24 45:11			
usually 40:14			

<p>17:16</p> <p>Whereas 42:7</p> <p>whether 25:25 26:8 41:22 41:23</p> <p>whisper 60:22</p> <p>white 22:1</p> <p>Whitefish 49:2 52:21 54:10 56:13</p> <p>whole 14:8</p> <p>wholesale 6:11 10:3 13:1 13:1 21:13 21:17</p> <p>Whoops 33:8</p> <p>whose 25:6 26:4</p> <p>wild 45:17</p> <p>wildlife 19:1 19:6 26:11 26:13 30:6 30:8 41:6 43:21 46:7 47:6 47:20 54:23 55:16</p> <p>willing 4:21</p> <p>willingness 25:7</p> <p>wind 8:3 24:4 24:12 38:20</p> <p>winter 7:14 7:16 10:21 10:23</p>	<p>31:6</p> <p>wisdom 59:20</p> <p>wisest 56:20</p> <p>wish 39:8</p> <p>witness 4:24</p> <p>witnesses 4:21</p> <p>woes 18:4</p> <p>wondering 50:16</p> <p>work 23:14 31:22 31:24 44:4 52:12</p> <p>worked 6:8 48:4</p> <p>working 51:10 58:20</p> <p>works 54:9</p> <p>wrap 5:4</p> <p>written 3:21 4:4 4:11 4:18 29:7 58:6</p> <p>wrong 43:12</p> <p>www. nwcouncil. org 5:15</p> <hr/> <p>Y</p> <hr/> <p>yellow 13:19</p> <p>yet 11:7 22:12 31:5 38:15 51:16</p> <p>you'll 30:23 43:12</p>	<p>yourself 48:10 48:11</p> <p>you've 42:15 42:15</p>	
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------	--