

JUL 15 2005

Boise, Idaho

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

**IN THE MATTER OF THE PETITION OF)
IDAHO POWER COMPANY FOR AN)
ORDER TEMPORARIL Y SUSPENDING)
IDAHO POWER' S PURP A OBLIGATION)
TO ENTER INTO CONTRACTS TO)
PURCHASE ENERGY GENERATED BY)
WIND-POWERED SMALL POWER)
PRODUCTION FACILITIES.)**

CASE NO. IPC-E-05-22

ENERGY VISION LLC

DIRECT TESTIMONY

OF

GLENN IKEMOTO

1 **Q. Please state your name and business address.**

2 A. My name is Glenn Ikemoto and my address is 672 Blair Avenue, Piedmont, CA.

3 **Q. By whom are you employed?**

4 A. I am a Principal of Energy Vision LLC.

5 **Q. Describe your educational background.**

6 A. I have a Bachelors of Science degree in Electrical Engineering from the University of
7 California at Berkeley and a Masters of Business Administration from Stanford University.

8 **Q. Please describe your work experience.**

9 A. I joined Kenetech Windpower, Inc. (formerly U.S. Windpower) in 1982, at the
10 beginning of my second year of graduate school. Prior to graduation, I negotiated a 120
11 MW non-standard wind contract with Southern California Edison. After graduation, I
12 represented Kenetech in the negotiation of California's Standard Offer 4. I then progressed
13 through a series of finance and development positions, ultimately becoming Vice President -
14 Business Development in 1989. In that position, I was responsible for all sales, marketing,
15 product development, project acquisition and project development activities of the world's
16 largest wind energy company.

17 In 1991, I became head of Kenetech International, Ltd. with headquarters in Chester,
18 England, UK. As Managing Director, I led the company's entry into Europe and oversaw
19 development activities in wind, biomass, industrial cogeneration and demand side manage-
20 ment. We successfully developed green-field wind projects in 4 countries, won a major
21 competitive bid in the UK and negotiated power contracts and joint ventures with major
22 international utilities.

23 After leaving Kenetech in 1995, I continued to work primarily in Europe until the end
24 of 2004. My partners on the Idaho projects and I have had executive, leading and/or

1 financing responsibility for over 600 MW of wind projects in eight countries and raised over
2 \$1 billion in renewable energy financing.

3 **Q. Do you have any other relevant work experience?**

4 A. Yes, prior to Business School, I worked for four years in the Generation Planning
5 Department of the Pacific Gas and Electric Company (PG&E). As a Senior Resource
6 Planner, I directed the unit responsible for the economic analyses of generation alternatives,
7 evaluation of marginal (avoided) cost methodologies and the calculation of avoided costs. I
8 was a member of the California Marginal Cost Pricing Project, negotiated the first long term
9 renewable energy power purchase agreement in the country and obtained CPUC approval
10 of that contract, designed the pricing provisions of PG&E's Standard Offers 1, 2 and 3, built
11 the generation production simulation module used in the company's Corporate Planning
12 Model, participated heavily in the Company's load forecasting and resource planning
13 processes and helped develop the company's PURPA policy (which it supported).

14 **Q. Have you previously testified in hearings such as this?**

15 A. Yes, I have served as an expert witness for PG&E on issues related to utility
16 economics, resource planning, power contracts and marginal cost methodologies in
17 hearings before the CPUC and the California Legislature.

18 **Q. What is the purpose of your testimony?**

19 A. I oppose the suspension of PURPA contracts on the grounds that it is economically
20 harmful to customers, bad public policy and bad regulatory procedure. In my testimony, I
21 will counter all of Idaho Power's unsubstantiated economic and reliability assertions.
22 Contrary to Idaho Power's position, current Posted Prices are a bargain for customers. With
23 the luck of timing, the current prices were set before much of the massive run-up in energy
24 prices. The issues Idaho Power raises are trivial compared to the spread between Posted

1 Prices and current market prices. The Commission should encourage signing QF's under
2 the present prices before they have to be updated.

3 I'm sure the Commission's primary concern is determining what is in the public
4 interest. Idaho Power pointed to the extension of the Production Tax Credit (PTC) and the
5 recently enacted state sales tax exemption for wind energy as problems. I see these as the
6 clearest indication of the public interest. Both of these decisions were made by our elected
7 representatives. They are the people most responsible for determining what is in the public
8 interest. As recently as April of this year, Idaho's legislature and administration spoke
9 strongly in favor of developing wind energy in Idaho by enacting the sales tax exemption.

10 At the federal level, the PTC debate expanded beyond the environmental benefits of
11 wind energy to include substantial consideration of the need for wind energy to bolster our
12 national energy security. Absent any economic justification, a suspension of the PURPA
13 wind contracts would be contrary to both state and federal energy policy.

14 As for regulatory procedure, I'm sure others will make a better case than me. I would
15 just like to point out that the Commission is being asked to set aside the results of an
16 extensive, formal multi-party procedure by a claim of "new" issues. Idaho Power has not
17 provided studies, analyses or other meaningful evidence to support its claim. The
18 intermittent nature of wind deliveries was certainly a major consideration in Case IPC-E-04-
19 10 and resulted in the 90/110 Performance Band. The only real new fact is that a meager
20 27 aMW of wind contracts have been signed. So there was a formal procedure, all parties
21 had the right to make their case, there was a period for reconsideration and then a final
22 decision. How is it appropriate for one party to now introduce new information. Idaho
23 Power is really just appealing a final decision. Isn't the correct avenue for an appeal the
24 courts? Doing it simply with a new IPUC petition is a terrible precedent.

1 In the Commission's Notice of Petition in this case, we were all notified that Idaho
2 Power's Petition "alone provides insufficient basis to grant the temporary suspension" and
3 directed Idaho Power to submit additional testimony and exhibits. They responded by
4 reformatting their petition into testimony and adding no new significant information. This
5 cavalier approach has led many to question whether the outcome of this proceeding hasn't
6 been pre-determined. This certainly isn't good for the credibility of Idaho's regulatory
7 process.

8 My testimony will also address options the Commission may wish to consider to
9 rationalize the PURPA Contracting process. These suggestions avoid a suspension of
10 PURPA Contracts.

11 Should the Commission find that a suspension is in the public interest, we urge you
12 to limit the damage. First, any moratorium should not to apply it to Avista or PacifiCorp. The
13 other utilities have not yet executed any PURPA Contracts. Idaho Power has raised issues
14 which focus primarily on the percentage of wind generation on their system (penetration).
15 Ancillary costs are a function of penetration. In Avista's case, there is very little wind
16 resource in their Idaho service territory, so there is no penetration issue. In PacifiCorp's
17 case, they have a large generating base, so again, penetration is not an issue. Including the
18 other utilities in a moratorium would be rewarding them for slower implementation. Second,
19 any new proceeding should not re-litigate closed issues. It should focus solely on the
20 impact of operating uncertainty, the 90/110 Performance Band and accounting for
21 uncertainty in avoided costs.

22

23 **FEAR, UNCERTAINTY AND DOUBT (FUD)**

24 **Q. What is your general view of Idaho Power's filings?**

1 A. In the days when IBM completely controlled the computer industry, it's competitors
2 created a term for the marketing strategy of a monopolist. FUD is the fear, uncertainty and
3 doubt a monopolist attempts to create in the minds of customers (or their representatives)
4 when they consider new alternatives. It was applied to IBM during the initial years of "IBM
5 compatible" mainframes and then the era of PCs, as they replaced mainframes. Today it is
6 often applied to Microsoft. It also describes the strategy of many regulated companies, such
7 as airlines, as they faced deregulation. Idaho Power's filings are classic examples of FUD.
8 However, the changes that drove the other industries will also drive the utility industry. In
9 the 1950's, economies of scale in power generation propelled today's utility model. With
10 new technologies in power generation and finance, those economies no longer exist. Just
11 as IBM's mainframes gave way to distributed computing, utilities will ultimately yield to
12 distributed generation.

13 **Q. In Mr. Gale's testimony, he states that it became "evident" that the availability**
14 **of PURPA prices influenced the RFP process. Do you agree?**

15 A. No, "evident" is a great FUD word. It implies the existence of evidence, which was
16 seriously lacking in Idaho Power's filings. They simply point to the Judith Gap project's 32
17 \$/MWh price to demonstrate that wind projects should be far cheaper than prices they
18 received in the RFP. They provided no side-by-side analysis and possibly didn't even check
19 on how the contract was structured (which isn't standard). Rather than bid gaming, all we
20 have here is a simple case of greed and gravity.

21 Wind developers, right now, are digesting the most severe increases in turbine prices
22 in the history of the industry. This has been caused by huge increases in the cost of steel
23 and other raw materials and a lack of turbine supply due to poor federal policies and the
24 high value of the Euro (increasing the dollar price of European turbines). Manufacturers

1 are taking advantage of this to push through previously unimaginable price increases for
2 2006 deliveries.

3 Much of the sticker shock from Idaho Power's RFP is caused by bad timing. To my
4 knowledge, it is the first RFP in the country based on the new turbine prices. The only other
5 announced project based on 2006 prices is the Los Angeles Department of Water and
6 Power's 120 MW Pine Tree Wind Farm. According to their May 2005 budget documents,
7 the project was originally planned for \$167 million and must absorb a \$37 million increase in
8 wind turbine costs. Since turbines represent approximately 75% of project cost (based on
9 old prices), this implies an approximately 30% increase in turbine prices since 2004. They
10 project a power cost of 53 \$/MWh (levelized) using lower cost public financing.

11 As for gravity, air, like everything else, is subject to it. It is common knowledge in the
12 wind industry that you want to locate a project on the downwind side of a hill. On the upwind
13 side, wind speeds slow down as the air is pushed uphill. On the downwind side, it's a sleigh
14 ride, as gravity pulls the air downhill. When the hill is the Rocky Mountains, there is going to
15 be a BIG increase in wind speeds. The difference between the average RFP price and the
16 Judith Gap price can be entirely explained by the differences in energy production, turbine
17 prices and property taxes (which are not included in Judith Gap's price), as demonstrated in
18 Exhibit 1 of my testimony. I should note that some news articles state that the capacity
19 factor of Judith Gap is 37%. Actually the Montana PSC filings only state that the capacity
20 factor will be at least 37%. Developers are very protective of their energy estimates. They
21 often use lower numbers or minimums in public documents. Based on my experience, I
22 believe the actual capacity factor is expected to be significantly higher.

23 **Q. Does this mean that wind energy in Idaho is not economic?**

24 **A.** No, Idaho Power notes that it's 2004 IRP assumption for wind energy was only 43
25 \$/MWh, and implies that a price of 55 \$/MWh would change the plan. That's is just another

1 FUD technique. If the results don't support your position then pick out an isolated fact that
2 does and skip the results. They are well aware that planning results are based on relative
3 costs, not absolute costs. Although the cost of wind energy has increased 28% from the
4 2004 IRP assumption, natural gas prices have increased over 50% and coal-fired energy
5 has also certainly increased above it's IRP assumption. To a certain extent, all energy
6 technologies are driven by the cost of oil because of materials and transportation costs. So
7 if we want to reassess the validity of the IRP results in light of new cost information, we have
8 to look at all costs, not just the cost of wind energy. At 55 \$/MWh, wind still beats natural
9 gas and it still beats coal. Demand would probably decline a little due to price elasticity, so
10 a new resource plan would just delay the coal plant. I think that's what we all want, isn't it?
11 Wind is still the lowest cost resource, whether by RFP or PURPA Contract.

12 The 2004 price assumption of 43 \$/MWh for wind energy would have been
13 appropriate at the time. This underscores the need to avoid further delay as costs increase.
14 Otherwise, Idaho Power may file a petition in 2007 saying that in 2006 they planned for wind
15 energy at only 55 \$/MWh, but now it's 70 \$/MWh and that's too expensive.

16 **Q. Can you summarize other areas of unsubstantiated assertions by Idaho**
17 **Power?**

18 A. Sure, they hit all the classics. We've got a FUD tsunami here, so I'll just cover the
19 highlights. Idaho Power states that the addition of large amounts of wind energy could
20 adversely affect system reliability. That's always FUD number 1 - the system's going to
21 crash! It's an easy thing to say if you don't have to define "large". I would say at a minimum
22 they should be comfortable with the amount of wind energy in their IRP. Those plans are
23 subject to reliability analyses and they can't say they aren't ready for what is already in their
24 plan. Also, there are states with Renewable Portfolio Standards (RPS) targeting 20% of
25 energy production. Much of this is expected to come from wind projects since they are

1 usually the lowest cost renewable energy option. This implies a far higher percentage of
2 capacity, well beyond what's being considered in Idaho.

3 Here's another classic, which is typically FUD number 2: from Page 12 of the
4 testimony, line 23, "a 10 MW wind facility may be at full output at one moment and minutes
5 later be at a very low to no output." That could just as easily be the description of any power
6 plant's forced outage. So what is the logic here? If the wind plant loses output because of
7 mechanical failure and stays broken (like a thermal outage) then is that supposed to be
8 better than being able to come right back on line when wind conditions permit? Utilities deal
9 with power plant forced outages, load variability and transmission failures. Wind energy
10 won't be any different.

11 This one is pretty popular: "PURPA Contracts will lock the customers into high
12 prices". How many times have we heard that one? We've all seen natural gas prices rise
13 and fall. In the past, that was caused by market manipulation by fossil fuel traders. The
14 current run up in prices is being driven by far more permanent conditions. Any ancillary
15 costs associated with wind energy are minor compared to existing fossil fuel increases. As
16 things stand now, the current Posted Prices are a bargain for the customers. They're
17 effectively getting gas at a 50% discount. Lock-ins (fixed prices) work both ways, so given
18 the large increases in all energy costs since the Posted Prices were set, it is far more likely
19 that PURPA Contracts will lock the customers into low prices.

20 Idaho Power has thrown out a number of 193 MW of potential PURPA wind projects
21 waiting in the wings. Without any documentation, it is impossible to know whether these
22 represent real projects with viable transmission options or just wishful thinking. Absent any
23 meaningful information, this is just a scare tactic.

24

25

1 **ANCILLARY COSTS**

2 **Q. Do you agree that wind energy projects create ancillary costs for the utility?**

3 A. Surprisingly, yes I do. I think there are three important points: the cost is small, the
4 cost is adequately offset by the 90/110 Performance Band and the avoided cost
5 methodology ignores all uncertainty.

6 There have been numerous studies of wind related ancillary costs conducted by
7 other utilities. These companies were not necessarily friends of wind energy and the wind
8 energy community has several criticisms of their methodologies. However, at the
9 penetration level in Idaho Power's IRP, they estimate costs of 2.5 \$/MWh or less. We
10 predict the 90/110 Performance Band has about the same effect. Compare this to natural
11 gas prices, which are up 14 \$/MWh on an SAR basis. Why stop wind energy when, in the
12 worse case, economics have improved 11.5 \$/MWh.

13 Ancillary costs are created by the scheduling uncertainty associated with the wind
14 resource. All uncertainty creates costs. If it appropriate to include operating uncertainty in
15 avoided costs, then it should be equally appropriate to include planning uncertainties. In a
16 case where all uncertainties are included in avoided costs, Posted Prices would be higher.

17 **Q. Do you agree with Idaho Power that issues related to the intermittent nature of**
18 **wind have not previously been considered by either Idaho Power or the Commission?**

19 A. Absolutely not, as I have mentioned, the intermittent nature of wind was a
20 fundamental part of Case IPC-E-04-10. It was the wind developers' objection to the 90/110
21 Performance Band that was one of the primary issues in the case. This dealt specifically the
22 operating reliability of wind deliveries. The Commission considered all the evidence that
23 was presented and decided, over the objections of the wind energy community, to leave in a
24 form of the 90/110 Performance Band. Idaho Power did not object to this new form or

1 anything else in the decision. Now we have a situation where Idaho Power won the point
2 and they are still using it against wind projects.

3

4 **INTERACTION OF RFP AND PURPA PROJECTS**

5 **Q. If 55 \$/MWh is a fair price for wind energy in Idaho, why have PURPA Contracts**
6 **at 61 \$/MWh?**

7 A. PURPA Contracts will not receive 61 \$/MWh. The 90/110 performance band and
8 seasonality factors do not apply to RFP contracts. These terms lower the effective price of
9 PURPA Contracts. We expect average revenues at our project in Idaho Powers territory to
10 be reduced by 6%, with a 1% reduction for seasonality and 5% reduction for the 90/110
11 performance band requirement (based on a proprietary analysis). Although we consider our
12 analysis confidential, I will represent that we would trade the 90/110 provision for a 5% fee
13 to the utilities for ancillary services anytime. Therefore, our price would be 57 \$/MWh in
14 Idaho Power's territory, not far above the average RFP Price. I suspect most other PURPA
15 developers would also make this trade.

16 Since the price is about the same, the most important reason to keep PURPA
17 Contracts is that they are important for the agricultural community and rural counties. Large
18 projects are typically located on high ridges which tend to be owned by the federal
19 government. PURPA projects are primarily located on agricultural land. Wind projects
20 uniquely coexist with agriculture. They take up only a couple of percent of the land and all
21 of the original agricultural uses of the land continue. As for counties, almost 7% of our
22 revenues go to property taxes – that's 4 \$/MWh. Because renewables are more capital
23 intensive, our taxes per kWh are far higher than fossil fuel projects. The Surrogate Avoided
24 Resource (SAR) only pays 1 \$/MWh. So when you exclude property taxes that are going to
25 rural counties, our net price is effectively only 53 \$/MWh.

1 In every industry, there are small and large competitors. Small companies survive by
2 finding projects that big companies overlook. Since there is little price difference, Idaho
3 should continue with both paths. It is always wise to avoid a concentration of risk. The
4 mortality of wind projects during development, like all power projects, is pretty high. You
5 never know when something like habitat for the sage grouse or transmission constraints will
6 eliminate one of the few large projects. It diversifies risk to have many small developers
7 working to beat fossil fuels. As long as there are fossil fuelled resources in a utility's
8 generation expansion plan, there is a societal need and federal mandate to give renewable
9 energy projects access to the market. PURPA is about renewables competing with fossil
10 fuels, not with each other.

11 **Q. What would prevent the losing RFP projects from simply reforming into**
12 **PURPA projects?**

13 A. Now this is a legitimate concern. If it is in the public interest to prevent this, then
14 there is a solution. There is already a federal prohibition against two projects being within 1
15 mile of each other with common ownership. Developers can work around this by using two
16 independent owners. To make this rule more effective, the rule needs to be applied to the
17 developer. This can be accomplished by simply adding a clause into the PURPA Contracts
18 requiring a representation that the Project is not within 1 mile of any other project with a
19 PURPA Contract which has been developed under common control by the same developer
20 and linking the representation to a default. Although it seems like this can also be worked
21 around, it probably would be very effective. Financing sources would not sign on to such a
22 contract without extensive due diligence on this issue since it could default the power
23 contract. Although this is discriminating between QFs, Idaho is already doing that with the
24 size limit.

25

1 **GRANDFATHERING**

2 **Q. Idaho Power recommends grandfathering a project which had substantially**
3 **completed its negotiations with Idaho Power before they started refusing to sign**
4 **contracts. Did you want to comment on that?**

5 A. Yes, I would simply like to point out that Idaho Power's contract doesn't really require
6 any negotiations. Using the standard of "substantial completion" penalizes developers that
7 were following a disciplined approach to developing their projects and relied upon the long
8 term commitment of Idaho Power and the IPUC to PURPA wind development. These
9 developers avoided wall papering the Commission with power contract approvals for
10 infeasible projects. This was supposed to be about market access, it wasn't supposed to be
11 a race. There are certainly better ways to handle grandfathering.

12

13 **RECOMMENDATIONS**

14 **Q. What changes would you suggest to improve the PURPA contracting process?**

15 A. I think the wind industry was being very responsible about requesting PURPA
16 Contracts. The projects that have been approved, if there are no major transmission
17 problems, should be good. However, now that Idaho Power has asked for a suspension,
18 the credibility of the process has been destroyed and everyone with any chance is flying
19 through the window. Clearly it is in everyone's interest to restore the credibility of the
20 process and the projects. I believe this can be done without suspending access to PURPA
21 Contracts by providing some guidance from the Commission.

22 I think three things need to be done to make demand for the contracts more
23 manageable. First, the Commission should give some guidance regarding out-of-state
24 projects. My understanding is that Idaho Power's position is that they do not charge
25 wheeling to out-of-state projects that connect to their network. PURPA rights exist at the

1 point of interconnection. A project in Oregon does not have the right to sell its power in
2 Idaho without making physical delivery here. Therefore, even if the Oregon connection is
3 with Idaho Power, they don't need to wheel it for free. In fact, it may be against the FERC
4 open transmission rules to do so. We are active in Oregon, so I can say that it is highly
5 unlikely that a project could economically sell power under the Idaho Published Prices if it
6 had to pay wheeling charges. By focusing on projects in Idaho, the Commission preserves
7 the economic benefits for Idaho's farmers, ranchers and county governments.

8 Second, there needs to be an entry fee for PURPA Contracts. Like anything else
9 that is free, it will be oversubscribed by projects that may have no chance of success. This
10 is detrimental to both the wind industry and utility planning. The issue is to find some way of
11 making this self administering so neither the Commission or Idaho Power are put in a
12 position to have to evaluate a project's chances for success. I suggest that no PURPA
13 Contracts be signed until the project makes its deposit for a Transmission System Impact
14 Study. By this point the Transmission Feasibility Study is complete and the developer
15 knows if it has an economic interconnection and path. For a good project, this is a
16 necessary step anyway, so it is not an extra expense. For a questionable project, it may be
17 enough to stop a frivolous request for a contract.

18 Third, as I pointed out earlier, large projects should be discouraged from bypassing
19 the RFP route by extending the one mile limit to included common development. This will
20 also help spread the PURPA contracts over a wider number of projects and sites.

21 Besides these recommendations, I would also like to suggest that the Commission
22 indicate its support for paying 5% of the Posted Price to utilities in lieu of the 90/110
23 performance band. The band is really an inefficient mechanism that provides little valuable
24 information. The 5% fee would be a better use of funds. The Commission would not need
25 to modify it's previous order. Utilities are not required to follow a strict contract form and

1 may be encouraged to negotiate this alternative with the Commission's guidance. As I said,
2 I believe this would be the preferred option for most developers.

3 **Q. You've been ranting for an awfully long time. Does this finally conclude your**
4 **remarks?**

5 **A. Yes it does.**

Direct Testimony

Of

Glenn Ikemoto

Case No. IPC-E-05-22

Exhibit 1

Comparison of Judith Gap, Montana

And Idaho RFP Prices

COMPARISON OF JUDITH GAP AND IDAHO WIND ECONOMICS

	<u>Montana</u>	<u>Idaho</u>
Project	Judith Gap	RFP Type
Assumptions		
Year of Construction	2005	2006
Wind Classification	Class 6	Class 5
Class Avg Wind Speed at 50 m (mph)	18.80	17.35
Terrain	Rolling Plain	Ridge Top
Shear Factor (Note 1)	0.17	0.10
Hub Height (m)	80	80
Wind Speed at 80 m (mph)	20.36	18.18
Elevation (ft)	4,500	6,000
Wind Speed at Hub Height (mph) (speed at 50m * (80m/50m) ^ shear factor)	20.36	18.18
Base Price	31.71	55.00
Adjustment to 2005 \$		-2.5%
Less Property Taxes		-6.5%
Comparable Price (2005 Levelized)	31.71	<u>(1.38)</u> <u>(3.60)</u> 50.03
Energy Production Adjustments		
Lower Wind Speed in Idaho (at 80 m)		-12.0%
<u>Effect on Energy Estimate</u>		
Convert Speed to Energy (Note 2)	1.60	-19.2%
Higher Altitude in Idaho (Note 3)	2.0% per 1000 '	-3.0%
Higher Array Losses in MT (Note 4)		<u>5.0%</u>
Total Energy Difference		-17.2% <u>(8.59)</u> 41.44
Implicit Project Cost Difference		-23.5% <u>(9.73)</u>
Adjusted Price	<u>31.71</u>	<u>31.71</u>

RESULTS

The entire difference in price between Judith Gap and an Idaho RFP project can be explained by a hypothetical 23.5% project cost increase between 2005 and 2006 (well within expectations), 17% more energy at Judith Gap, a property tax pass through and an adjustment to base year \$.

Notes:

- (1) Shear factors are typical values for ridge top and open plain sites
- (2) The ratio of the change in energy production due to a change in wind speed is site specific. The assumption of 1.6 is based on side-by-side case scenarios
- (3) Losses due to air density = 3% per thousand feet with rated power (no loss) 1/3 of time; net loss = 2% per thousand feet
- (4) Educated guess - assumes 5% loss per row for three rows; row performance 100%, 95%, 90%; average = 95%.

CERTIFICATE OF SERVICE

I hereby certify that on the 15 day of July, 2005, true and correct copies of the PETITION TO INTERVENE OF ENERGY VISION LLC and the DIRECT TESTIMONY OF GLENN IKEMOTO were delivered to the persons on the attached Service List via the method of service noted.

By



Glenn Ikemoto
Principal
EnVision Systems, LLC

SERVICE LIST

PETITION TO INTERVENE and the DIRECT TESTIMONY OF GLENN IKEMOTO

Via Overnight (and courtesy email):

Jean Jewell
Commission Secretary
Idaho Public Utilities Commission
427 W. Washington St.
Boise, ID 83702-5983

Via Fax (and courtesy email where possible)

Bart Kline
Monica Moen
Idaho Power Company
(208) 388-6936
mmoen@idahopower.com

Richard L. Storro
Director, Power Supply
Avista Corp.
(509) 495-4272
dick.storro@avistacorp.com

R. Blair Strong
Paine, Hamblen et al
(509) 838-0007
r.blair.strong@painehamblen.com

Dean J. Miller
McDevitt and Miller
(208) 336-6912
joe@mcdevitt-miller.com

Peter Richardson
(208) 938-7904
peter@richardsonandoleary.com

William J. Batt
John R. Hammond
Batt & Fisher
(208) 331-2400
wjb@battfisher.com and jrh@battfisher.com

Mike Heckler
Windland
(208) 375-2894
mheckler@windland.com

Lisa Nordstrom
Pacifcorp
(503) 813-7252
lisa.nordstrom@pacifcorp.com

Bob Lively
Pacifcorp
(801) 220-2798
bob.lively@pacifcorp.com

William Eddie
Advocates for the West
(208) 342-8286
billeddie@rmci.net

David Hawk
J.R. Simplot
(208) 389-7333
dhawk@simplot.com

R. Scott Pasley
J.R. Simplot
(208) 389-7464
spasley@simplot.com

Troy Gagliano
Renewable Northwest Project
503-223-4554
renewables@rnp.org

Via U.S. Mail

Jared Grover
Cassia Wind LLC
3635 Kingswood Dr.
Boise, ID 83704-4322

Armand Eckert
Magic Wind LLC
716-B East 4900 North
Buhl, ID 83316