



WHITE SALMON VALLEY SCHOOLS

KEY TO THE FUTURE

Mr. Jim Luce
State of Washington
Energy Facility Site Evaluation Council
P.O. Box 43172
Olympia, WA 98504-3172

Mr. Luce:

The White Salmon Valley School District Board of Directors understand that wind energy farms are potentially divisive, particularly in the Underwood portion of the school district. However, the Whistling Ridge Wind Project would have the effect of broadening the tax base when paying for school levies and bonds.

This project would add approximately \$100-\$150 million of new taxable value to the school district. It would lower the levy rate for everyone in the district considerably, thereby reducing everyone's taxes, possibly enabling the district to pass future levies more readily.

Using 2010 levy rates, the amount of reduction per thousand dollars of assessed valuation would range from 16 cents to 23 cents. A homeowner with a home assessed at \$250,000 would save between \$38 and \$55. A homeowner with a home assessed at \$500,000 would save between \$76 and \$111. Due to unique characteristics of our school district, we have recently lost important statewide levy equalizations funds. As a result of this, and general reductions in statewide education funding, the approval of levies might be an increasingly important source of revenues to our district in the future.

Economically this project has the potential to benefit the community and the school district by adding revenues without creating additional demands for services or impacts on the school system.

Sincerely,

A handwritten signature in black ink that reads "Dale F. Palmer". The signature is fluid and cursive, with a long horizontal stroke at the end.

Dale F. Palmer
Superintendent

RECEIVED

MAY 07 2009

ENERGY FACILITY SITE
EVALUATION COUNCIL

Bhavnani, Monica (CTED)

From: Erin Moore [REDACTED]@yahoo.com]
Sent: Friday, May 01, 2009 6:32 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal, ,

I am writing to comment on the proposed Whistling Ridge Energy Project in Skamania County, Washington.

The proposed project would cause significant negative impacts to sensitive wildlife and plant habitat and would degrade the outstanding scenic beauty of the Columbia River Gorge National Scenic Area.

The Whistling Ridge proposal includes more than 80 wind turbines in two counties, yet the application filed with EFSEC discusses only 50 turbines in Skamania County. The EIS must review the cumulative environmental impacts of all portions of the project, including both the Skamania Co. and Klickitat Co. portions.

This proposal is likely to have different and greater wildlife impacts than any other wind energy facility proposed in the State of Washington, because this project is proposed at a heavily forested site. The project would permanently disturb large areas of forested habitat and result in direct and indirect impacts to multiple wildlife species through habitat loss and displacement, direct collisions with turbine blades, and other factors. The potentially affected species include northern spotted owl, western gray squirrel, northern goshawk and other raptors, several species of bats, multiple migratory bird species, mule deer, black-tailed deer, and elk. Several of these species are listed as sensitive or threatened in Washington State.

Locating 426-foot-tall turbines on the ridgeline of the Columbia River Gorge would also degrade the scenic values of the Gorge. The turbines would be highly visible from several designated key viewing areas within the National Scenic Area, including Interstate 84, the Historic Columbia River Highway, Cook-Underwood Road, and Panorama Point. The project would introduce highly visible industrial facilities into the natural, forested landscape, protruding above ridgelines and detracting from the natural scenic beauty of the Gorge. The wind towers would have daytime and nighttime warning lights, which would worsen the aggravate scenic impacts.

Finally, the proposed project would be located partially within the Columbia River Gorge National Scenic Area. Specifically, the applicant proposes to construct, expand, and improve more than two miles of roads within the National Scenic Area in order to haul industrial materials with gross vehicle weights of up to 53 tons. This proposal to construct and use Scenic Area lands for industrial purposes is prohibited by the National Scenic Area Act and Management Plan, and must be denied.

I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Erin Moore

[REDACTED]

Astoria, OR 97103

Scoping Comment
#98

Bhavnani, Monica (CTED)

From: Kelly Cooper [REDACTED]@gorge.net]
Sent: Saturday, May 02, 2009 10:47 AM
To: CTED EFSEC
Subject: Scenic area Wind Turbines

I currently live in Underwood Wa and have a business in White Salmon Wa. I have owned property in the Columbia River Gorge National Scenic Area for over 24 years. Since the enactment of the National Scenic act in 1986 all property owners and residence of the Scenic Area have paid a price for the preservation of the views in this amazing corridor. Strict zoning laws were enacted to prevent subdividing of prime real estate that in **many** cases had been owned by families for over 100 years. This, along with new zoning laws restricting the commercial use of property has resulted in billions of dollars being lost by **many** property owners in the Scenic Area.

For the last 25 years, If you live in the Scenic Area you need to obtain permission from the Gorge Commission to cut down a tree, add an exterior light, plow a field, replace a roof, basically anything that may have a negative effect on the view has been regulated.

The millions spent enforcing the National Scenic act along with the effort and sacrifices made by its residences has enabled this area to remain one of the countries most unique and scenic places. The by product of this has resulted in a steadily growing economy in the Urban Zones. Families move to this area from all over the country and many business have located here because of the areas natural settings and the scenic vistas.

Locating the 300 foot tall turbines slightly outside the boundaries of the scenic area is in total disregard of the intent of the federal boundary and is an injustice to thousands of individuals and families that have paid the price to keep the scenic corridor intact. The small amount of power generated by the few turbines that are visible from the scenic corridor does not justify their degradation of the corridor's view and the resulting negative fiscal impact on the surrounding communities.

Simply put any turbines that have any negative impact on the Columbia River Gorge National Scenic Area need to be eliminated or relocated.

I sincerely hope everyone involved with the approval process will consider the facts that I have presented. I urge all parties envolved to use their good judgment and eliminate the negative aspects of this project.

Kelly R Cooper
Underwood Wa

5/4/2009

Bhavnani, Monica (CTED)

From: Jayne Lebsack [REDACTED]@hotmail.com]
Sent: Saturday, May 02, 2009 2:10 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal, ,

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I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Jayne Lebsack

██████████
Portland, OR 97206

503-777-██████████

Bhavnani, Monica (CTED)

From: Mary Anne Joyce [REDACTED]@yahoo.com]
Sent: Saturday, May 02, 2009 6:05 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal, ,

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I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Mary Anne Joyce



Portland, OR 97215

Bhavnani, Monica (CTED)

From: Edward Craig [redacted@gmail.com]
Sent: Saturday, May 02, 2009 6:58 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

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I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Edward Craig


Eugene, OR 97402

Scoping Comment
#102**Bhavnani, Monica (CTED)**

From: Cork & Bottle [REDACTED]@corkandbottlecatering.com]
Sent: Sunday, May 03, 2009 11:11 AM
To: CTED EFSEC
Subject: wind turbines in Underwood, WA

Hello,

I am writing to address the proposed wind turbines in the scenic area of Underwood Mountain in the Columbia River Gorge. I own a business that caters to locals and tourists holding events at different venues around the gorge. About 75% of my business occurs on Underwood Mountain. This is due to its stunning views of the gorge and Mt. Hood, which cause many people to choose to hold their special event in the gorge (as opposed to the Willamette Valley, or Olympic Peninsula, etc.) My point being that this business would not stay in the gorge, otherwise.

My business DIRECTLY affects a dozen employees, a local Bed & Breakfast, and several local farmers in this area. One of which may even argue that my business alone supports their sustainable farm! It indirectly affects many many more small businesses in this area.

I am in full support of wind energy, and have carefully considered my stance on this project. I understand on the surface it seems like many of us are saying, "Sure, I love sustainable energy, as long as it's in someone else's back yard." This, however, with me is not the case. I don't mind looking at the turbines because I know that they represent a crucial shift that our society needs to make in deriving its energy. If I didn't truly believe that these turbines would directly & negatively impact hundreds of small businesses in the gorge, including mine, I would not be writing this email.

Please consider the livelihood of the many members of our community when making your decision. I have to believe that there are options to move these turbines out of the scenic area, and still generate a similar amount of power. I appreciate your full consideration of this important matter.

Sincerely,

Talia Hammond

Cork & Bottle Catering

509-281-[REDACTED]

www.corkandbottlecatering.com

[REDACTED]
Hood River, OR 97031

5/4/2009

Bhavnani, Monica (CTED)

From: Ofelia Bullock [REDACTED]@comcast.net]
Sent: Sunday, May 03, 2009 12:05 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal, ,

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I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Ofelia Bullock


Portland, OR 97203

Bhavnani, Monica (CTED)

From: Richard Schramm [REDACTED]@msn.com]
Sent: Sunday, May 03, 2009 7:08 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal ,

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I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Richard Schramm



Portland, OR 97212

5032888912

April 25, 2009

Allen F. Fiksdal, EFSEC Manager
Energy Facility Site Evaluation Council
P.O. Box 43172
905 Plum Street SE
Olympia, WA 98504-3172

Re: Whistling Ridge Energy Project, Application No. 2009-01

Dear Mr. Fiksdal:

I am writing to express my strong concern about the proposed Whistling Ridge Energy Project. While I support wind power development I believe the proposed location of this project would cause irreversible damage to the scenic beauty of the Columbia Gorge. The proposed giant windmills would dominate the Underwood, Bingen-White Salmon and Hood River viewing areas. As a nearby home owner, I am also concerned about the impact on the physical and emotional health of my family and neighbors of constant exposure to windmill noises and flashing strobe lights..

Wherever located, wind towers and their effects will be with us for a very long time. Massive 426 foot multi million dollar concrete structures aren't going to decay any time soon and they are unlikely to be willingly dismantled by their owners when our energy resource needs change. There are other sites within Washington and elsewhere where wind power is available. To irrevocably deface a national treasure such as the Gorge Scenic Area would be shortsighted and irresponsible.

Please stop the Whistling Ridge Energy Project or have it moved to a suitable location.

Sincerely,



John Tyler

Underwood, Washington 98651

RECEIVED

MAY 04 2009

ENERGY FACILITY SITE
EVALUATION COUNCIL

From: Holly and Gene Griswold
[REDACTED]
Mosier, OR 90740

RE: Whistling Ridge Wind Power Project

To: Jim LaSpine, and the EFSEC
905 Plum Street SE 3d Floor
PO Box 43172
Olympia, WA 98504-3172

Dear Jim La Spina, and the EFSEC,

I urge you to NOT approve Whistling Ridge Energy LCC's application for a wind facility on Saddleback Ridge overlooking the Columbia River Gorge NSA.

Industrial wind plants should be kept out of the viewspace of the Columbia River Gorge National Scenic Area.

I passionately believe that the Scenic Area should not be degraded by an industrial wind farm.

I believe that once ONE windfarm is approved along the CRGNSA, others will follow, until the entire Gorge is lined with wind turbines.

The legacy to Americans will be abandoned out of date turbines in decades to come, just like in the Bay area and East L.A. windfarms in California.

Please vote to keep the natural scenic values of the Columbia River Gorge intact as intended upon it's creation. That's what tourists come here for.

Quality of living in area communities should be paramount. People live here for the scenic beauty, please do not allow that to be degraded by turbines and associated power lines, transfer stations, roads, embankments, and building infrastructure.

Tourists from nearby urban centers and from around the nation visit The Gorge for it's natural beauty. Let's keep it that way!

You know better than I, that after this initial phase 1 set of turbines, many other arrays will follow.

Please don't let it start here in such proximity to the Scenic Area. Or, we'll have to change the name- Columbia River Gorge Electricity Generation Area.

Respectfully,



Holly and Gene Griswold

RECEIVED

MAY 04 2009

ENERGY FACILITY SITE
EVALUATION COUNCIL

Bhavnani, Monica (CTED)

From: Linda Thompson [REDACTED]@ccwebster.net]
Sent: Monday, May 04, 2009 3:04 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

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I support renewable energy and contribute monthly to the Green Source Program set up by Portland General Electric specifically for this purpose, but I am opposed to any industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Linda Thompson


Oregon City, OR 97045

Scoping Comment
#108

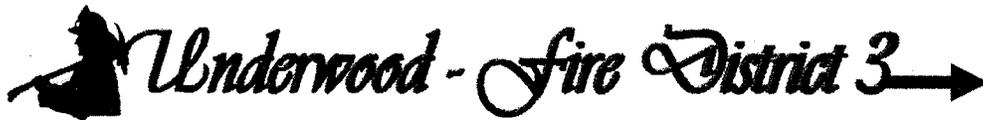
Bhavnani, Monica (CTED)

From: lightwave [REDACTED]@midcolumbia.net]
Sent: Monday, May 04, 2009 8:43 PM
To: CTED EFSEC
Subject: Whistling Ridge Project
Follow Up Flag: Follow up
Flag Status: Green
Attachments: EFSECLetterRev4-30-09.doc

Members of the Council,

Attached is a letter from the Chief of Skamania Co. Fire District 3, the fire protection district adjacent to the proposed Whistling Ridge energy site.

John Hardham
Skamania Co. Fire District 3 Commissioner
Studio: 509-493-[REDACTED]
Cell: 503-701-[REDACTED]
[REDACTED]@midcolumbia.net
<http://www.lightwavevideo.com>



*Skamania County, Wa.
PO Box 156, Underwood, WA 98651 509-493-1710*

State of Washington
Energy Facility Site Evaluation Council
905 Plum Street SE
PO Box 43172
Olympia, WA 98504-3172
360-956-2121
Email: efsec@cted.wa.gov

April 29, 2009

To EFSEC Council members and others whom it may concern:

We wish to submit the following comments on the Whistling Ridge Energy Project relating to the scope of impacts under the State Environmental Policy Act. Please note that as a public entity, the Skamania County District 3 Volunteer Fire Dept. does not have an official position on the merits of the proposed Project, and does not approve of nor disapprove of the project.

Generally, Fire District 3 is the primary first responder for south-eastern Skamania County. However, the area designated for the energy project is outside our district; DNR is the official service provider for these areas. The Project may have a generally positive impact on the ability of our department and DNR to offer fire protection services to the area because new roads, extensions, and improved existing roads will provide better access for all first responders.

If necessary, Fire District 3 can provide service coverage to the Project area without any reduction in service capacity to our constituency. We do not have a contract to provide service to the area. The project does not present any challenges or requirements for which we are not already prepared to respond.

There is a potential negative road access issue we would like to note, as follows: during the construction phase, there is a concern that the main roads into and through our district (WA State Rte. 14 and Cook-Underwood Road) could be obstructed by heavy equipment vehicles. We would expect the contractor to allow for emergency vehicle access at all times.

(signed)
Eric Zeigler, Chief, Skamania Co. Fire District 3

Scoping Comment
#109

Bhavnani, Monica (CTED)

From: Mike and Joyce Eastwick [REDACTED]@msn.com]
Sent: Tuesday, May 05, 2009 11:33 AM
To: CTED EFSEC
Subject: comments on Whistling Ridge Wind Project
Follow Up Flag: Follow up
Flag Status: Green

Written comments from:

Mike and Joyce Eastwick

[REDACTED]
Underwood, WA 98651

Primary "environmental" concerns are:

- 1) Visual impact to our national scenic treasure: Columbia Gorge Scenic Area. As it is currently defined the project will be visible from all of the nationally designated key viewing sites in the Mid-Columbia region. This would be a horrible, inexcusable, degradation of our national scenic treasure. Site the turbines so they cannot be seen from these key viewing sites.
- 2) Potential for elk and other large animal movement (deer, bear, cougar, etc.) to be redirected towards the south of the project, endangering the agriculture and residences in that area. Consider that when faced with the "wall" of turbines that will be running in the north-south direction, their movements will be more to the south and north. Please consider the potential effects to agriculture crops, and residential safety. I request eliminating the "A" array (southern most 9) to allow wildlife passage without encroaching on residential/agricultural land.

Primary "land use" concerns are related to the turbine and construction vehicle traffic:

- 1) Regarding land use zoning, the project site is not zoned for industrial use. The public outcry against the last attempt for this type of zoning is well documented, by the county, during their public hearing process. Among many objections, 80% of ALL oral comments and 64% of ALL written comments on the proposed zoning demanded industrial setbacks from private property boundaries to be greater than one mile for ANY industrial facility. The only comment supporting the proposed setback was from Jason Spadaro of SDS.
- 2) The "no load limits" for the transportation route stated by the application does not indicate that the roads can withstand the heavy, wide vehicle traffic. I do not believe the limits have been determined or set into law. To avoid catastrophes the load limits of the route must be studied and necessary upgrades performed. I can still remember when Cook Underwood slide down the cliff over Broughton Mill and had to be reconstructed further to the north.
- 3) The planned route through Underwood is on residential streets, and in fact, on the ONLY residential arterial. Please consider limiting turbine and construction vehicle traffic to weekdays only, during non-commuting non-school bus, daylight hours. The 7am to 7pm, seven days a week indicated in the application is inconsistent with the residential nature of Underwood.
- 4) Special logistical considerations should be put into place for emergency vehicles during the transportation windows. Emergency services must be able to access all of Underwood, at all times.
- 5) Enhanced/supplemented police enforcement of the construction traffic windows, compression

5/7/2009

braking laws, and other road safety laws would be required.

Insert movie times and more without leaving Hotmail®. [See how.](#)

Scoping Comment
#110

Bhavnani, Monica (CTED)

From: Michael O'Gorman [REDACTED]@gorge.net]
Sent: Tuesday, May 05, 2009 11:37 AM
To: CTED EFSEC
Subject: whistling ridge wind turbine project
Follow Up Flag: Follow up
Flag Status: Green

As a life long Washingtonian and 9 year resident of Underwood, WA I am against the Whistling Ridge wind turbine project. I support wind generated power production but feel strongly that the proposed site is not appropriate for wind turbines. The proposed site is too close to many residences and too visible from key viewing areas in and around the Columbia River Gorge Scenic Area.

Kind Regards,

Michael O'Gorman

[REDACTED]
Underwood, WA 98651

Scoping Comment
#111

Bhavnani, Monica (CTED)

From: Chico Bukovansky [REDACTED]@dakine.com]
Sent: Tuesday, May 05, 2009 3:19 PM
To: CTED EFSEC
Cc: 'Denice Bukovansky'
Subject: Whistling Ridge Energy Project
Follow Up Flag: Follow up
Flag Status: Green

Dear EFEC,

I would like to express my concern against the Whistling Ridge Energy project proposed for the hills above Underwood, WA. I feel that the applicants are taking advantage of a National Scenic area boundary line that was created without regard to large, visually disturbing structures such as windmills. The Columbia River Gorge is a national Scenic Area, and I truly believe that windmills should not be visible from so many key viewpoints along this National Scenic Area. I am in favor of wind power, but the visual disturbance, both daytime and nighttime with the flashing lights, is much more than should be allowed in such a key viewing area that is visited by many people from all over the world as well as the daily visual scar it will place on the local community for our and our children's lifetime. I have driven out east in the Gorge through all the windmills that have gone up the past few years and they are a real eyesore, especially at night with the flashers. I understand the need for them, but I do not believe a National Scenic Area is right for them.

I urge you to deny the application as there are many better situated options in the state for projects such as this. At least consider moving the key towers from all the key viewing points along the Gorge.

As a 13 year resident of Underwood, WA and 25 year resident of the Gorge, I have had to work within, build, landscape, paint and design projects that were suitable for a National Scenic Area. Those are considerations in our daily lives and I would hate to see everyone's hard work in planning a visually unobtrusive community get thrown out the window by someone's greed and interpretation of a Scenic Area boundary. Large scale industrial projects have their place, but not in the eye of every resident and visitor within the scenic area.

Thank you.

Michal Bukovansky
[REDACTED]
Underwood,
WA 98651

5/7/2009

Scoping Comment
#112

Bhavnani, Monica (CTED)

From: repara [REDACTED]@saw.net]
Sent: Tuesday, May 05, 2009 8:32 PM
To: CTED EFSEC
Subject: Repar--comments to EFSEC re: Whistling Ridge, app.2009-01
Attachments: Hearing Examiner Decision (SEP-08-35).pdf; Saddleback_Letter of support_commissioners_12Mar2009.tif; Saddleback_3 news articles_Feb2009.pdf; WR_map_SC_KL.pdf; Whistling Ridge_EFSEC_comments__e-sig_05May2009.doc

Dear EFSEC,

Attached, please find an electronic copy of my comments for the May 6th EFSEC meeting in Stevenson, WA, and some of my attachments. I will be providing hardcopies of two of the attachments, 3 and 4, at the meeting. Thank you.

Hearing Examiner Decision—Attachment 1;

Letter of Support—Attachment 2;

Hearing Examiner Hearings—2 CDs—Attachment 3, hardcopy, will give to EFSEC at 6 May meeting, in Stevenson;

Considering Cumulative Effects: Under the National Environmental Policy Act, book—Attachment 4, will give to EFSEC at 6 May meeting, in Stevenson;

Site Map, WR_map_SC_KL, Attachment 5;

3 Newspaper articles about expansion, Attachment 6, will give to EFSEC at 6 May meeting, in Stevenson.

Mary J. Repar

[REDACTED]
Stevenson, WA 98648

Tel: 509.427.[REDACTED]

E-mail: [REDACTED]@saw.net

FEB 19 2009

BEFORE THE HEARING EXAMINER
FOR SKAMANIA COUNTY

COMMUNITY DEVELOPMENT
DEPARTMENT

In the Matter of the Appeals of)
)
Friends of the Columbia Gorge,)
Save our Scenic Area, Gifford Pinchot Task)
Force, and Columbia Riverkeeper)
)
Of a SEPA DNS.)

NO. SEP-08-35
FINDINGS, CONCLUSIONS, AND
DECISION

SUMMARY OF DECISION

The appeals of the October 8, 2008 Determination of Nonsignificance issued for the County's proposed zoning text and map amendments are **GRANTED**.

SUMMARY OF RECORD

Background

Skamania County seeks to amend the text and maps of its zoning code (Title 21 Skamania County Code) consistent with its adopted Comprehensive Plan and subarea plans. The County issued a Determination of Nonsignificance for the proposed amendments (known as the Planning Commission Recommended Draft) on October 8, 2008. Save our Scenic Area, and a group of organizations including Friends of the Columbia Gorge, Gifford Pinchot Task Force, and Columbia Riverkeeper filed appeals of the Determination of Nonsignificance on October 22, 2008.

Hearing Date

The Hearing Examiner for Skamania County held an open record hearing on the appeals on January 21 and 22, 2009.

Testimony

The following individuals presented testimony under oath at the open record appeal hearing:

1. Karen Witherspoon, Director of Community Development, Skamania County
2. Heather Watson, Assistant Planner, Skamania County
3. Dean Apostol, Landscape Architect¹
4. K. Shawn Smallwood, Ph.D., Ecologist²
5. Richard James, E-Coustic Solutions, Acoustical Engineer³
6. Nina Pierpont, M.D., Ph.D., Physician⁴
7. Nathan Baker, Staff Attorney, Friends of the Columbia Gorge

¹ Please refer to Exhibit G.1 for Mr. Apostol's qualifications.

² Please refer to Exhibits G.4 and C.21 for Mr. Smallwood's qualifications.

³ Please refer to Exhibit 7.1 for Mr. James' qualifications.

⁴ Please refer to Exhibit 1.1 for Dr. Pierpont's qualifications.

Legal Counsel

- Attorney J. Richard Aramburu represented Appellant Save our Scenic Area
- Attorney Richard A. Poulin represented Appellants Friends of the Columbia Gorge, Gifford Pinchot Task Force, and Columbia Riverkeeper
- Attorney Peter Banks, Skamania County Prosecutor, represented Skamania County

Exhibits

The documents listed on Appendix A to this Decision (Exhibit List) were admitted into the record. Additional documents were filed on January 26, 2009, after the Hearing Examiner had closed the record to new evidence. The Hearing Examiner did not consider the January 26 documents and they are not admitted into the record.

In addition to the documents identified in Appendix A, the Hearing Examiner considered the following legal memoranda:

- Pre-Hearing Brief of Appellants Friends of the Columbia Gorge, Inc.; Gifford Pinchot Task Force; and Columbia Riverkeeper (December 9, 2008)
- Opening Brief of Save our Scenic Area (December 9, 2008)
- Response Brief of Skamania County (January 2, 2009)
- Reply Brief of Appellants Friends of the Columbia Gorge, Inc.; Gifford Pinchot Task Force; and Columbia Riverkeeper (January 15, 2009)
- Citations to Exhibits of Appellants Friends of the Columbia Gorge, Inc.; Gifford Pinchot Task Force; and Columbia Riverkeeper (January 29, 2009)
- SOSA's Exhibits Citations and References (January 29, 2009)

The Hearing Examiner also considered the 2007 Comprehensive Plan, the Carson Community Subarea Plan, the Swift Subarea Plan, the West End Community Comprehensive Subarea Plan, and the Skamania County Code.

Upon consideration of the testimony and exhibits admitted at the open record hearing, the Hearing Examiner enters the following Findings and Conclusions:

FINDINGS

General

1. Skamania County seeks to amend the text and maps of its zoning code (Title 21 Skamania County Code) consistent with its adopted Comprehensive Plan and subarea plans. The amendments would apply to all lands within unincorporated Skamania County that are not designated as Columbia River Gorge National Scenic Area (hereafter, "National Scenic Area" or "Scenic Area").⁵ The Scenic Area generally includes the southern portion of Skamania County, although there are "islands" of urban area (including unincorporated land) that are not within the Scenic Area. Thus, the proposed

⁵ Land uses within the National Scenic Area are governed by Title 22 of the Skamania County Code (Columbia River Gorge National Scenic Area Ordinance).

amendments would apply to some parcels that, while not designated as Scenic Area, are surrounded by Scenic Area lands. *AR-50; Testimony of Ms. Witherspoon; County Exhibit 2.*

2. In the testimony and written materials there are references to two proposed drafts of Title 21 – the (1) Board-Initiated Draft and the (2) Planning Commission Recommended Draft. The Board-Initiated Draft was the first draft of the proposed amendments. The Planning Commission Recommended Draft contains the changes to the first draft that were recommended by the Planning Commission after considering public comment. The changes are substantial. The draft of Title 21 that is under review is the Planning Commission Recommended Draft, found in the record at AR-72 to 226.⁶ *AR-51.*
3. According to the 2007 Comprehensive Plan, Skamania County is approximately 1,070,080 acres in area. It is the only county in Washington State that spans the crest of the Cascade Mountains. Approximately 80 percent of the County (855,000 acres) is within the Gifford Pinchot National Forest. Approximately five percent of the County (59,876 acres) is owned by the State of Washington.⁷ Approximately 85,000 acres of the remaining land is within the National Scenic Area. *2007 Comprehensive Plan, pages 17-18.*
4. The planning documents in effect for the portions of Skamania County outside of the National Scenic Area include the 2007 Comprehensive Plan, the Swift Subarea Plan, the West End Community Subarea Plan, and the Carson Community Subarea Plan. With respect to those lands governed only by the 2007 Comprehensive Plan (i.e., not within a subarea), there are three land use designations: Rural I (2,758 acres), Rural II (13,440 acres), and Conservancy (817,826 acres). *AR-57.* The zoning classifications currently in effect for those designations include the following: Residential 1, 2, 5, and 10, Rural Estate, Community Commercial, Commercial Recreation, Industrial, Resource Production 10 and 20, Natural, and Unmapped. *SCC 21.24.021.* In addition, there are two zoning classifications applicable to the Northwestern Lake area – Residential 2 and Residential 5. *SCC 21.55.*
5. The Swift Subarea includes approximately 92,191 acres, and the Comprehensive Plan indicates that approximately 34,000 of the acres are privately owned.⁸ There are six land use designations within the Swift Subarea, including Swift Recreational, Swift Commercial Resource Lands, Swift Forest Lands 20, Mountain Recreational 20,

⁶ The proposed zoning map is found at AR-232.

⁷ The County provided slightly different numbers in its brief – a total land area of 1,073,370 acres, with 932,034 acres consisting of state or federal public lands and the remaining 141,336 acres (13 percent) privately owned. *Response Brief of Skamania County, page 1.* These numbers do not affect the outcome of the decision.

⁸ There is some discrepancy between the total acreage reported in the Environmental Checklist and the total acreage reported in the Comprehensive Plan. The total acreage in this finding is based on the Environmental Checklist. It is not clear whether the acreage of privately owned land has also changed from what is reported in the Comprehensive Plan.

Mountain Recreational 10, and Mountain Recreational 5. *2007 Comprehensive Plan, page 18; Swift Subarea Plan, pages 14 – 21; AR-57.*

6. The West End Subarea includes approximately 60,000 acres, and the Comprehensive Plan indicates that approximately 31,000 of the acres are privately owned.⁹ There are seven land use designations within the West End Subarea, including Rural Lands 2, Rural Lands 5, Rural Lands 10, Forest Lands 20, Commercial Resource Lands, Neighborhood Commercial, and Community Commercial. *2007 Comprehensive Plan, page 18; West End Subarea Plan, Figure 3-1; AR-57.*
7. The Carson Subarea includes approximately 2,000 acres. There are four land use designations within the Carson Subarea, including High Density Residential, Rural Residential, Rural Estate, and Business Center. *AR-57; Carson Subarea Plan, pages 2 – 5.*
8. Much of Skamania County is classified as “Unmapped”, meaning that no zoning has been assigned.¹⁰ Within unmapped areas, “all uses which have not been declared a nuisance by statute, resolution, ordinance, or court of jurisdiction are allowable.” *SCC 21.64.020.* Land uses within unmapped areas are not subject to the standards or conditions of the zoning code. *Id.*
9. The unmapped lands in Skamania County are mostly commercial forestland or Gifford Pinchot National Forest. According to County Ordinance No. 2008-01, at least 15,000 acres of the unmapped lands are privately owned. *Exhibit H.4; Testimony of Ms. Witherspoon.*
10. Skamania County has had a moratorium in effect since July 10, 2007 (date of adoption of most recent Comprehensive Plan) on the following development activities on unmapped lands:
 - The acceptance and processing of any building, mechanical or plumbing permits on any parcel of land that is 20 acres or larger that was created by deed since January 1, 2006
 - The acceptance and processing of land divisions
 - The acceptance and processing of SEPA checklists related to forest practice conversions

⁹ There is some discrepancy between the total acreage reported in the Environmental Checklist and the total acreage reported in the Comprehensive Plan. The total acreage in this finding is based on the Environmental Checklist. It is not clear whether the acreage of privately owned land has also changed from what is reported in the Comprehensive Plan.

¹⁰ Prior to 2007, the County’s Comprehensive Plan only addressed the southern portion of Skamania County. *2007 Comprehensive Plan, pages 10 and 21.*

Exhibit H.4. The reasons for the moratorium include that much of the unmapped land is on rugged terrain that is not served by County roads or electricity, and that many areas are prime habitat for federal or state listed species of fish and wildlife. *Exhibit H.4.*

11. The Planning Commission Recommended Draft (and associated zoning map) would accomplish the following:
- Zone all previously unmapped land, including the land under federal ownership.
 - For the land outside of the subareas, eliminate the Resource Production 10 and 20 zones and add Business Park, Forest Lands 20, and Commercial Resource Lands 40 zones.
 - Zone the Swift Subarea consistent with the Swift Subarea Plan (zoning designations: Mountain Recreational 5, 10, and 10, Swift Forest Lands 20, Swift Commercial Resource Lands 40, and Swift Recreation).
 - Zone the West End Subarea consistent with the West End Subarea Plan (zoning designations: Rural Lands 2, 5, and 10, West End Forest Lands 20, West End Commercial Resource Lands 40, and Neighborhood Commercial).
 - Add a new section to the zoning code (SCC 21.70.170) on alternate energy systems, which would apply to the installation of any alternate energy facility located within unincorporated Skamania County, except for the General and Special Management Areas of the National Scenic Area (AR-203).

A list of all of the proposed zoning designations and the acreage allocated to each is set forth in the Environmental Checklist at AR-56 to 57. AR-50, 51, 56, and 57; County Exhibit 2.

12. The proposed Alternate Energy Systems section contains standards relating to the following facilities:

- Rooftop Wind Energy Systems¹¹
Key provisions:
 - One per structure
 - Maximum height: 15 feet above maximum for structure
- Small-Scale Wind Energy Facilities¹²
Key provisions:
 - No limit on number
 - Maximum height: 65 to 80 feet
 - Minimum property line setback: 1.1 times the height
- Large-Scale Wind Energy Facilities¹³

¹¹ The proposed definition for rooftop wind energy system is "a small wind energy system that is installed onto a structure supplying power directly to that structure." AR-82.

¹² The proposed definition for small-scale wind energy facilities is "Wind turbines which will be used primarily to reduce on-site consumption of utility power to farms, homes, or businesses." AR-83 (SCC 21.08.010).

Key provisions:

- No limit on number
 - Maximum height: 500 feet
 - Minimum property line setback (exterior): 50 feet plus height of structure
 - Minimum setback from residential structures or zones: one-half mile
 - Large-Scale Solar Facilities¹⁴
 - Geothermal Resources¹⁵
 - Bio-Energy Facilities¹⁶
- Key provision:

- Minimum setback from residential structures or zones: one-half mile

AR-203 to 214 (SCC 21.70.170).

13. The current zoning ordinance does not contain any standards relating to alternate energy systems, although geothermal energy facilities are identified as conditional uses in the R-1, R-2, R-5, R-10, Rural Estate, and Resource Production zones. *SCC 21.28.030, 21.32.031, 21.36.031, 21.40.030, 21.44.030, and 21.56.030.* The County would regulate wind power facilities as “utilities” under the existing code. *Testimony of Ms. Witherspoon.* Public Facilities and Utilities¹⁷ are allowed in the residential and Rural Estate zones. Semi-Public Facilities¹⁸ are conditionally allowed in the residential and Rural Estate zones, and Semi-Public Facilities and Utilities are conditionally allowed in the Resource Production zones. *SCC 21.28.020 and -.030, 21.32.020 and -.031, 21.36.020 and -.031, 21.40.020 and .030, 21.44.020 and -.030, and 21.56.030.* The Hearing Examiner was not able to locate any use classification relating to private utility systems.
14. Under the Planning Commission Recommended Draft, rooftop wind turbines would be allowed outright in the residential zones, and small-scale wind energy facilities would be

¹³ The proposed definition for large-scale wind energy facility is “An electricity-generating facility consisting of wind turbines or other such devices and their related or supporting facilities that produce electric power from wind to be sold and used off-site.” *AR-79 (SCC 21.08.010).*

¹⁴ The proposed definition for large-scale solar facilities is “photovoltaic energy systems and/or solar thermal technology energy systems that use reflective materials that concentrate the sun’s heat energy to drive a generator that produces electricity.” *AR-79 (SCC 21.08.010).*

¹⁵ The proposed definition of geothermal energy facilities is “A facility used to produce electricity by extracting and converting the natural thermal energy from the earth.” *AR-78 (SCC 21.08.010).* There are no standards for Geothermal Resources other than compliance with RCW 78.60.

¹⁶ The proposed definition for bio-energy is “Includes a range of biomass feedstock and technologies for conversion of these materials into useful energy.” *AR-76 (SCC 21.08.010).*

¹⁷ “Facilities which are owned, operated, and maintained by public entities which provide a public service required by local governing bodies and state laws.” *SCC 21.08.010 (70).*

¹⁸ “Facilities intended for public use which may be owned and operated by a private entity.” *SCC 21.08.010 (73).*

allowed in the residential zones with administrative review.¹⁹ In addition, “public, semi-public and/or private facilities and/or utility systems” would be allowed outright in the residential zones. Although the proposed definitions for “public facilities and utility systems” and “semi-public facilities and utility systems” include “electrical transmission, distribution and generation facilities”, the electrical generation facilities that fall under more restrictive definitions (such as wind turbines) would not be regulated as a “public, semi-public and/or private facilities and/or utility systems.” Thus, a large-scale wind energy facility would *not* be allowed outright in a residential zone.²⁰ *AR-81, 82, 99, 100, 102, 103, 105, 106, 108, 109; Testimony of Ms. Witherspoon.*

15. Although alternative energy systems would be regulated under the Alternative Energy Systems section of the zoning code, it is not clear how certain traditional electricity generating facilities, such as coal-fired plants, would be regulated. The Planning Commission Recommended Draft does not contain use categories or specific standards for such facilities. If categorized as “public, semi-public and/or private facilities and/or utilities” they would be allowed outright in most zones. *See generally AR-76-84; Opening Brief of Save our Scenic Area, page 10.*
16. Under the Planning Commission Recommended Draft, large-scale wind energy facilities and bio-energy facilities (the most controversial uses) would not be allowed outright in any zone.²¹ Instead, they would be conditional uses in the following zones:
 - Industrial
 - Forest Lands 20 (large-scale wind energy only)
 - Commercial Resource Lands 40
 - Carson Industrial Zone (large-scale wind energy only)
 - West End Forest Lands 20 (large-scale wind energy only)
 - West End Commercial Resource Lands 40
 - Swift Forest Lands 20 (large-scale wind energy only)
 - Swift Commercial Resource Lands 40

¹⁹ Small-scale wind energy facilities would not be allowed within the High Density Residential Zone of the Carson subarea. *AR-139.*

²⁰ To avoid confusion, the Hearing Examiner urges the County to clarify this issue in the final version of the zoning code. Appellant SOSA made much of the fact that the language “electrical transmission, distribution and generation facilities” could be read as including wind-energy and other alternative energy facilities. However, the Hearing Examiner considers this to be a language problem (albeit a significant language problem) rather than an environmental review problem. It is clear that the County intends to regulate wind-energy and other alternative energy facilities in accordance with the stricter standards established for those facilities, and it is the Hearing Examiner’s opinion that no reviewing official looking at the larger statutory scheme could reasonably interpret otherwise. Consequently, the Hearing Examiner will not evaluate the environmental impacts of the proposed zoning code on the false assumption that large-scale wind energy facilities would be allowed outright in the residential zones.

²¹ Under the prior Board-Initiated Draft, large-scale wind energy facilities would have been administrative review uses in some zones, and allowed outright in others. *See e.g., AR-121, 128, and 148.*

AR-122, 125, 128, 148, 161, 163, 179, 182. None of the zones identified above would allow residential uses.

17. Although the 2007 Comprehensive Plan specifies that the Hearing Examiner “may deny a conditional use permit if he or she finds the use is inappropriate for the area” (2007 Comprehensive Plan, Policy LU.6.1, page 31), the proposed criteria for conditional use permit approval do not appear to give the Hearing Examiner discretion to deny a conditional use permit. Proposed SCC 21.16.070(A) states, “If the Hearing Examiner determines that the use is *not compatible* with permitted or existing uses in the specific area of the proposed use then the proposed use may be approved or approved with conditions to make it compatible with the area.” AR-88 (*emphasis added*). The quoted language is a change from the current SCC 21.16.070, which states, “If the Hearing Examiner determines that the use is not compatible with permitted or existing uses in the specific area of the proposed use then the proposed use shall be denied.” SCC 21.16.070(A).
18. The 2007 Comprehensive Plan does not contemplate the type of energy facilities described in the Planning Commission Recommended Draft. With respect to the Conservancy designation, which includes the majority of the County and which could be implemented by the Residential 10, Forest Lands 20, Commercial Resource Lands 40, and Natural zones (see 2007 Comprehensive Plan, Figure 2-2, and AR-97 to 98), the Comprehensive Plan lists only the following utility uses as being appropriate within the designation: “Public facilities and utilities, such as parks, public water access, libraries, schools, utility substations, and telecommunication facilities.” 2007 Comprehensive Plan, page 26.
19. Ms. Karen Witherspoon, Director of Community Development for Skamania County, was the Responsible Official for State Environmental Policy Act (SEPA) review of the code amendments. Ms. Witherspoon issued a Determination of Nonsignificance (DNS) for the Planning Commission Recommended Draft on October 8, 2008.²² AR 47-48.
20. On October 7, 2008, the County mailed notice of the DNS to numerous agencies, tribes, and interested parties, including the Washington Department of Fish and Wildlife, the Washington Department of Natural Resources, the United States Forest Service, the Washington Department of Ecology, and the Columbia River Gorge Commission. AR-64-68. The County published the DNS in the Skamania County Pioneer on October 8, 2008. AR-69-70.
21. No agency submitted comments directly in response to the October 8, 2008 DNS. *Testimony of Ms. Witherspoon.* However, on June 5, 2008 the Washington Department of

²² Ms. Witherspoon had issued a DNS for the Board-Initiated Draft also, and the DNS was appealed by some of the Appellants in this case. Ms. Witherspoon withdrew the DNS in response to the changes recommended by the Planning Commission. See AR-50.

Fish and Wildlife (WDFW) submitted a comment letter on the original Board-Initiated Draft that contained the following language:

WDFW would like to re-iterate our calls for a cumulative effects analysis of regional wind power development in the Columbia River Gorge. Such an analysis is typically not possible or required during permitting and siting of an individual wind power development. The County zoning update process is the best opportunity we have to conduct this analysis of potential adverse environmental impacts from development of wind power sites, as well as associated power lines, roads, and other infrastructure. Such an analysis would evaluate the number, location, and type of turbines; the number and type of species in an area; species behavior; topography; and weather factors influencing direct and indirect mortality factors.

Exhibit C.12. No cumulative effects analysis has been conducted for the proposed zoning code amendments, although some of the specific language changes requested by WDFW (i.e., not allowing large-scale energy uses outright on commercial resource lands) have been incorporated into the Planning Commission Recommended Draft. *Exhibit C.12; AR-128.*

22. The County did not consider the June 5, 2008 WDFW letter in the environmental review of the Planning Commission Recommended Draft because of the timing of the submittal. In compiling its environmental review record the County made a distinction between those comments submitted in response to the October 8, 2008 DNS, the comments submitted in response to the DNS for the prior Board-Initiated Draft, and the comments submitted to the Planning Commission on the ordinance itself. Ms. Witherspoon testified that WDFW submitted a later letter (also not included in the environmental review record) that did not include a request for a cumulative effects analysis. *Testimony of Ms. Witherspoon.*
23. Save our Scenic Area filed an appeal of the DNS on October 22, 2008. *AR-30 through 40.* The appeal was timely under the 14-day deadline specified in the DNS. *AR-47 to 48.* The appeal alleged that the proposal (mainly, the portions relating to wind turbines) would have probable, significant, adverse impacts on the following:
 - Birds and animals,
 - Noise,
 - Geology, soils, and topography,
 - Fire and hazard,
 - Relationship to existing land use plans,
 - Land use and housing,
 - Light and glare,
 - Aesthetics and scenic resources,
 - Special areas (i.e., Columbia Gorge National Scenic Area),

- Recreation,
- Transportation,
- Water Supply and Aquifers, and
- Human health.

In addition, Save our Scenic Area alleged that the County did not actually consider environmental factors prior to issuing the DNS, that the proposal would result in cumulative impacts, and that the proposal would set a precedent for further actions with significant environmental effects. Save our Scenic Area requested that the Hearing Examiner reverse the issuance of the DNS and order the County to prepare an Environmental Impact Statement (EIS). *AR-35 through 40.*

24. The organizations Friends of the Columbia Gorge, Gifford Pinchot Task Force, and Columbia Riverkeeper jointly filed an appeal of the Determination of Nonsignificance on October 22, 2008. *AR-3 through 24.* The appeal was timely under the 14-day deadline specified in the DNS. *AR-47 to 48.* The appeal alleged the following (paraphrased):

- An EIS must be prepared for non-project actions that may lead to significant adverse impacts.
- The County improperly relied on the Klickitat County FEIS.
- The County failed to consider cumulative impacts, and the precedent set by the proposal.
- The County failed to consult with other agencies.
- The County failed to consider impacts to special and sensitive areas, wildlife, rare plants, native plant communities, and water resources.
- The County failed to ensure consistency with the Comprehensive Plan, Critical Areas Ordinance, and federal wildlife laws.
- The County did not analyze the impacts of the Northwestern Lake Recreational zones, or the impacts of increased residential development.
- The County did not consider or adequately protect against impacts to cultural resources and recreation, noise impacts, fire risk, transportation impacts, and impacts associated with new energy transmission infrastructure.

AR-6 through 23.

25. The County stipulated to all Appellants' standing to challenge the DNS. There are declarations in the record from members and/or staff of Friends of the Columbia Gorge, Columbia Riverkeeper, and Gifford Pinchot Task Force, some of whom reside in Skamania County, that their interests would be adversely affected by the proposed zoning code amendments. According to the declarations, members of the Appellant organizations pursue recreational and wildlife viewing activities in or near the areas that would be affected by the zoning ordinance. *Argument of Mr. Banks; Exhibits F.4 through F.9.*

26. In response to the appeals, the County argued that the scope and impact of the zoning amendments is smaller than argued by the Appellants because most of Skamania County consists of public land, that the court decision *King County v. Boundary Review Board*, 122 Wn.2d 648 (1993) is not applicable, that the State of Washington has preempted local control over wind power projects, and that the proposed amendments would be an improvement over the existing regulatory scheme. *Response Brief of Skamania County*.
27. In the Environmental Checklist for the Planning Commission Recommended Draft, the County discloses, in general terms, the presence of mountainous terrain, water features, threatened and endangered species, bird migration routes, and unstable soils within the County, but claims that the proposal would have no impact on those and other elements of the environment because it is a non-project action. In the supplemental sheet for non-project actions, the County does not identify or analyze the impacts associated with the type of development that might result from the proposed amendments, but indicates that the impacts of future development would be determined and mitigated on a project-specific basis based on County regulations. *AR-50 to 62*.
28. Assistant Planner Heather Watson prepared the September 30, 2008 Environmental Checklist, in consultation with Ms. Witherspoon and other County staff. As background research, Ms. Watson reviewed the Planning Commission Recommended Draft of the zoning code amendments, a Final Environmental Impact Statement (FEIS) issued by Klickitat County for its Energy Overlay Zone (AR-71),²³ the August 2003 Wind Power Guidelines promulgated by the Washington Department of Fish and Wildlife (AR 351-359), and some SEPA checklists and threshold determinations issued by other jurisdictions for legislative actions. Although Ms. Watson was aware that the County had been approached regarding a possible wind energy development, she did not consider the project in preparing the Environmental Checklist because no application had been filed. *Testimony of Ms. Watson*.
29. Although both Ms. Witherspoon and Ms. Watson reviewed the Klickitat County FEIS prior to issuance of the DNS, neither provided testimony or other evidence identifying which specific portions of the FEIS or supporting studies were persuasive in making the determination. In addition, neither provided evidence suggesting that Skamania County and Klickitat County have similar environmental conditions. *See generally, Testimony of Ms. Witherspoon and Ms. Watson*. Although the checklist notes, "The Eastern portion of Skamania County that abuts Klickitat County was included in studies prepared for this [the Klickitat County] EIS" (AR-50), no specific references to the studies, or conclusions drawn from the studies, were provided.²⁴ In addition, the assumptions used by Klickitat

²³ Klickitat County is immediately east of Skamania County.

²⁴ By chance, the Hearing Examiner found a reference to eastern Skamania County in the Avian Study Report attached to the Klickitat County FEIS (AR-71, Appendix B). The study indicates that two avian sampling points were in southeast Skamania County, in the general vicinity of the panhandle that extends south of the Klickitat County line. The area represented by the sampling points is an extremely small fraction of Skamania County as a whole. *AR-71, Appendix B, Figure 1*.

County in evaluating the environmental impacts of the Energy Overlay Zone are not reflected in the proposed zoning text. For example, the Planning Commission Recommended Draft would allow a maximum wind turbine height of 500 feet, whereas the visual impact analysis conducted by Klickitat County was based on a height of 100 feet. *AR-205; AR-71, page 3-108*. The 500-foot height limit was not based on environmental factors; its purpose was to ensure that the type of turbines currently in existence would be conforming. *Testimony of Ms. Witherspoon*.

30. Prior to adoption of its Energy Overlay Zone, Klickitat County, like Skamania County, did not have ordinances that specifically addressed energy development. Energy facilities were reviewed on a case-by-case basis through the conditional use permit process, which, the FEIS notes, "has led to a lack of consistent policy for energy facility siting." *AR-71, page 1-3 to 1-4*, Klickitat County issued a Determination of Significance (DS) for the non-project action on June 6, 2002, and issued the FEIS in September of 2004. *Exhibit H.2; AR-71*.
31. In the FEIS, Klickitat County predicted that the Energy Overlay Zone might encourage greater energy development within the Overlay boundaries, and discourage energy development outside of the Overlay boundaries "because of the greater uncertainty in the permitting process". *AR-71, page 1-6*. The prediction turned out to be accurate. The development of wind power facilities in Klickitat County has far exceeded the projections contained in the FEIS. Whereas the FEIS assumed that four wind power projects (1,000 MW generating capacity total) would be developed in Klickitat County between 2004 and 2024, as of January 30, 2008 there were 12 wind power facilities in Klickitat County (1500+ MW) that were permitted and/or constructed or had permits pending.²⁵ These facilities are depicted on a Klickitat County Wind Projects Map. *Exhibit E.2*. During the past year, applications for two wind facilities in addition to those depicted on the map have been filed.²⁶ *Exhibits E.3, E.4, and E.5; AR-71, page 1-2*.
32. Skamania County is a member of the Mid-Columbia Economic Development District (MCEDD), and Skamania County Commissioner Paul Pearce serves on the MCEDD Board of Directors as the Chair of the Executive Committee. The counties that constitute MCEDD, in addition to Skamania County, include Klickitat County (WA), Sherman County (OR), Wasco County (OR), and Hood River County (OR). *Exhibit H.10, page 1; Exhibit H.13*.
33. The mission of MCEDD is "to promote the creation of family-wage jobs, the diversification of the economic base, and the growth, development and retention of business and industry within the five-county district." *Exhibit H.10, page 2*. One of

County line. The area represented by the sampling points is an extremely small fraction of Skamania County as a whole. *AR-71, Appendix B, Figure 1*.

²⁵ Although the map depicting the wind power facilities is dated January 30, 2008, it includes some projects that did not receive SEPA threshold determinations until April of 2008. *Exhibit E.2, Exhibit 6.3, Exhibit 6.4*.

²⁶ It should be noted that one of those projects – the Goodnoe II Project – included approximately 320 acres of land owned by the Washington Department of Natural Resources. *Exhibit E.5*.

MCEDD's projects has been to establish the Columbia Gorge Bi-State Renewable Energy Zone (CGBREZ). "This self-declared zone was created to reduce the region's dependency on federal subsidies, bring economic vitality to the region, establish a national model for energy self-sufficiency, and provide a model of self-reliance for other rural economies in the 21st Century. *Exhibit H.10, page 9; see also Exhibit D.6.*

34. Skamania County has demonstrated its support of the CGBREZ, and its interest in wind power in particular, in several ways. On December 18, 2007, the Skamania County Board of Commissioners passed Resolution 2007-59, which "endorses the creation of the Columbia Gorge Bi-State Renewable Energy Zone." *Exhibit H.9.* In the preamble to the resolution, the Commissioners identify the counties within the zone as possessing "world class renewable energy assets including wind, sun, biomass, water and geothermal" and as desiring to develop renewable energy projects. *Exhibit H.9.* On September 30, 2008, the Skamania County Board of Commissioners passed Resolution 2008-51, which endorses several policies and actions relating to the CGBREZ, such as streamlining government permitting, encouraging investment in new energy technologies, and expanding regional transmission capacity for renewable energy projects. *Exhibit H.12; Exhibit H.11.* On December 23, 2008, the Board "discussed the need for the County to pay for Skamania County Economic Development Director to attend an upcoming conference of the American Wind Energy Association". *Exhibit H.14.*
35. Skamania County contains areas that have been mapped by the U.S. Department of Energy National Renewable Energy Laboratory as Wind Power Class 4 ("good") or better. The wind power classifications range from Class 1 to Class 7, with Class 1 referring to "poor" resource potential (wind speeds not exceeding 12.5 miles per hour at 50 meters), and Class 7 referring to "superb" resource potential (wind speeds of 19.7 miles per hour or greater). *Exhibits D.1 and D.2.*
36. To facilitate potential wind energy projects, there are existing high-voltage Bonneville Power Administration electric transmission lines in the southern portion of Skamania County and on the west side of Swift Reservoir. *Exhibits H.1, D.1, and D.2.*
37. Skamania County has not yet received an application to develop a large-scale wind energy facility. However, SDS Lumber has approached Skamania County on multiple occasions over the past several years to discuss a possible large-scale wind energy project (Saddleback Project) on its property within the County. Ms. Witherspoon met with representatives of SDS and entities such as the Bonneville Power Administration on two or three occasions for "pre-application meetings" to discuss the permitting requirements for the project. Multiple pre-application meetings have been held because of changes in the development team. The project, if developed, would consist of at least 40 wind turbines. Although the last formal pre-application meeting was approximately two years ago, individuals associated with the project have been involved in the County's code update process and the president of SDS was present at the subject appeal hearing. *Testimony of Ms. Witherspoon.*

38. The Bonneville Power Administration (BPA) has produced a map entitled "Current and Proposed Wind Project Interconnections to BPA Transmission Facilities" (Exhibit D.4). This map depicts the SDS Saddleback project as a proposed wind generation facility of 70 megawatts (MW). The project location is in the southeast corner of Skamania County. *Exhibit D.4.*
39. Although no party was able to identify any specific wind power projects located or proposed on National Forest land, United States Forest Service regulations do not preclude the development of wind energy facilities. Wind energy uses are governed by the Forest Service's special use regulations set forth in 36 CFR 251, subpart B. Applications for wind energy facilities are processed in accordance with 36 CFR 251.54, Forest Service Manual 2726 ("Energy Generation and Transmission"), and Forest Service Handbook 2709.11 ("Special Use Administration"). In September of 2007, the Forest Service proposed amendments to the manual and handbook to specifically address wind energy uses. *72 Federal Register 184; Exhibit D-9, page 4-29; see also Testimony of Mr. Apostol.*
40. Although under SEPA each project is reviewed on an individual basis, there appears to be a general consensus among reviewing officials that large-scale wind energy facilities generate the type of impacts that are appropriately reviewed through an environmental impact statement. *Exhibits E.3, E.5, 6.1, 6.2, 6.3, and 6.4; Testimony of Ms. Witherspoon.* A typical large-scale wind energy facility includes numerous turbines that are arranged in "strings", electrical collector and/or transmission lines connecting the turbines to each other and to the electrical grid, access roads to each of the turbines, electrical substations, and support structures. The following examples of wind energy proposals in the region illustrate the scale of development associated with large-scale wind energy facilities:

Lakeview Light & Power Project (Harvest Wind) in Klickitat County (as described in DS issued April 25, 2008):

- 55 turbines with a maximum height of 410 feet each
- New 3.1-mile long electrical transmission line
- New substation occupying two acres
- An operations building
- Approximately 20 miles of new access roads
- 98.6 acres of land impacted (46.6 acres of temporary construction impact and 52 acres of long-term impact)

Exhibit 6.3.

Pacific Wind Development Project (Juniper Canyon) in Klickitat County (as described in DS issued April 11, 2008):

- 167 turbines with a maximum height of 492 feet each
- Two new substations occupying a total of 15 acres
- Unpaved access roads connecting the turbines and other facilities

Exhibit 6.4.

Windy Point Partners, LLC Project (Windy Point II) in Klickitat County (as described in DS issued July 9, 2008):

- 61 turbines
- Possible new substation
- Approximately 17 miles of new access roads
- 76 acres of land permanently disturbed

Exhibit 6.1.

Northwest Wind Partners, LLC Project (Goodnoe II) in Klickitat County on private and DNR land (as described in DS issued July 11, 2008):

- 17 turbines (added to an existing facility)
- Electrical transmission lines
- 15 acres of land permanently disturbed

Exhibit 6.2.

Stateline Wind Project in Walla Walla County, Washington and Umatilla County, Oregon (as described in Federal Register, June 5, 2000):

- 250 to 450 245-foot-tall turbines, arranged in several strings and spaced 200 to 300 feet apart
- New substation occupying one to two acres
- Eight to ten miles of new overhead transmission lines
- New access roads
- Operations building
- Water tank

Exhibit 5.4.

41. The National Academy of Sciences prepared a report, *Environmental Impacts of Wind-Energy Projects*, which "provides analyses to help to understand and evaluate the positive and negative environmental effects of wind-energy facilities." *Exhibit 4.4, Executive Summary, page 1.* The study addresses both the ecological and the human impacts of wind energy. *Exhibit 4.4, Chapters 3 and 4.* The study also includes recommendations for improving wind-energy planning and regulation. *Exhibit 4.4, Chapter 5, page 181.* With respect to planning, the recommendations of the National Academy of Sciences include the following:

- Standardized studies should be conducted before siting and construction and after construction of wind-energy facilities to evaluate the potential and realized ecological impacts of wind development. Pre-siting studies should evaluate the potential for impacts to occur and the possible cumulative impacts in the context of other sites being developed or proposed. *Exhibit 4.4, Executive Summary, page 9.*
- Regulatory reviews of individual wind-energy projects should be preceded by coordinated, anticipatory planning whenever possible.... This planning could be

implemented at scales ranging from state and regional levels to local levels. *Exhibit 4.4, Executive Summary, pages 12-13.*

Visual impacts

42. Skamania County contains unique and exceptional scenic resources, including the National Scenic Area in the southern portion of the County, Mt. St. Helens National Monument in the northwest corner of the County, and the base of Mt. Adams near the northeast corner of the County. Photographs depicting some of Skamania County's scenic resources are provided in Exhibit B.5 and Exhibit B.1 (see page 1-6). *2007 Comprehensive Plan, pages 13 and 35; Exhibits H.3, B.5 and B.1.*
43. The Swift Subarea is one of the areas that, under the Planning Commission Recommended Draft, could be developed with large-scale wind energy facilities. The Swift Subarea Plan describes the area as "mountainous with sweeping vistas", and as being one of the gateways into the Mt. St. Helens National Volcanic Monument, "which is a popular recreation and sightseeing location bringing thousands of tourists through the Swift Subarea every year." *Swift Subarea Plan, pages 7 and 9.*
44. Based on U.S. Department of Energy National Renewable Energy Laboratory mapping, Skamania County's best wind resources are found on ridgelines that lie transect to the Columbia River Gorge. The ridges may be visible from key viewpoints. Some are near the National Scenic Area boundary. *Exhibits D.1 and D.2; Exhibit B.5; Testimony of Mr. Apostol.*
45. Wind turbines of the maximum height permitted under the Planning Commission Recommended Draft (500 feet) have the potential to dramatically alter the landscape. To put the massive scale in perspective, the tallest building in Portland is 546 feet tall. Even a turbine that is only 300 feet tall could have a blade sweep diameter comparable to the length of a Boeing 747 Jumbo Jet. *Exhibit B.5; Testimony of Mr. Apostol.*
46. The visual impact associated with wind turbines is based not only on the scale of the structures, but on the amount of land that must be cleared to accommodate them. In a forested area, the clearing required for a string of turbines can be substantial (in the example provided in Exhibit B.5, four acres per turbine). With respect to aesthetic impacts, complex, ecologically fragile, and scenic landscapes are the poorest locations for large wind turbines, and open, level, simple landscapes (such as might be found in established agricultural areas) are the best locations for large wind turbines. *Exhibit B.5; Exhibit B.4; Testimony of Mr. Apostol.*
47. Landscape aesthetics have measurable, objective standards. It is possible to map aesthetically sensitive areas and use such information when making zoning decisions. Mr. Dean Apostol, the Appellants' landscape architect, recommended mapping as one means for the County to minimize aesthetic impacts. He also recommended that the County adopt aesthetic standards. *Testimony of Mr. Apostol; Exhibit B.5.*

48. The National Forest Service (NFS) has developed a Scenery Management System for the inventory and analysis of the aesthetic values of national forests. The Scenery Management System is described in an NFS publication entitled "Landscape Aesthetics – A Handbook for Scenery Management" (Exhibit B.1). The Handbook provides a multi-step process for mapping scenic resources. The concepts and processes contained in the Handbook are not limited to national forests; some jurisdictions use the Handbook to evaluate scenic impacts. *Exhibit B.1; Testimony of Mr. Apostol.*
49. The American Wind Energy Association (AWEA) has prepared a Wind Energy Siting Handbook that provides information regarding the regulatory and environmental issues associated with the development of wind energy facilities. In its handbook, the AWEA notes that government agencies with approval authority over wind farms often require a formal assessment of the visual compatibility of a wind farm, such as the extent to which the wind farm adversely affects the aesthetics of vistas known to be important to the community. According to the AWEA, a visual impact assessment should include a characterization of baseline conditions, photo simulations, and specific investigation of the potential visual impacts based on identified changes from the baseline condition. *Exhibit D.9, pages 5-28 to 5-31; see also Exhibit B.4.*
50. The use of aesthetic criteria to control land uses is not new to Skamania County; the Columbia Gorge National Scenic Area Ordinance (Title 22 of the Skamania County Code) contains aesthetic criteria. All development applications for the National Scenic Area must include "a list of all key viewing areas from which the proposal would be visible." *SCC 22.06.060(A)(1)(e)*. The key viewing areas, which are defined by ordinance, include Cook-Underwood Road, I-84, the Columbia River, the Pacific Crest Trail, and numerous other locations. *SCC 22.04.010(91)*. Those developments visible from key viewing areas must comply with certain standards, including that the development must be "visually subordinate"²⁷ to its setting as seen from the viewing areas. *SCC 22.18.030; see also Exhibit B.4.*
51. With respect to large-scale wind energy facilities, the Planning Commission Recommended Draft does not contain standards or criteria relating to aesthetic impacts, nor does it require a visibility analysis as an application requirement. *AR- 205 to 212.*
52. Based on Geographic Information System (GIS) mapping prepared by a consultant with significant prior experience with the National Scenic Area (see Exhibit B.2), 415-foot-tall wind turbines in the southeast portion of Skamania County, but outside of the National Scenic Area, would be visible to a six-foot-tall observer from Cook-Underwood Road within the National Scenic Area and from Interstate 84 (I-84) on the Oregon side of the Gorge.²⁸ With respect to the western portion of the study area, the visibility would be

²⁷ "Visually subordinate means a description of the relative visibility of a structure or use where that structure or use does not noticeably contrast with the surrounding landscape, as viewed from a specified vantage point, generally a key viewing area. As opposed to structures that are fully screened, structures that are visually subordinate may be partially visible. They are not visually dominant in relation to their surroundings...." *SCC 22.04.010(181)*.

²⁸ Within the study area, I-84 passes through the Hood River Urban Area. *Exhibit B.3.*

greatest significant from Cook-Underwood Road (i.e., only in the northernmost portion of the study area would turbines not be visible), but not as significant from I-84 (i.e., only in the southernmost portion of the study area, adjacent to the NSA boundary, would turbines be visible). With respect to the eastern portion of the study area, which generally corresponds to the panhandle lying south of Klickitat County, turbines would be visible from I-84 at nearly all locations, and would be visible from Cook-Underwood Road at locations near the NSA boundary. *Exhibit B.3.*

53. A viewshed analysis was prepared specifically for the Saddleback project, which, if developed, would be located in the southeast portion of Skamania County. According to the submitted site plan, 44 wind turbines would be located along some north-south ridgelines located immediately north of the Scenic Area boundary.²⁹ The turbines would be visible for several miles, and would be particularly visible from areas to the west and north of the project and from the south side of the Columbia River Gorge (I-84 and environs). Views from Cook-Underwood Road would also be affected. *Exhibits 2.2a, 2.2b, and 2.2c.*

Wildlife Impacts

54. Wind turbines typically kill at least some birds and bats. Bird fatalities are generally caused by collision with the turbines or associated infrastructure. Bat fatalities can be caused by collision or by "barotrauma" from air pressure changes near the turbines.³⁰ The extent of the impact depends on factors such as the type of species present and how they use the landscape, the type of habitat that is provided (forested areas are more sensitive), and design features such as the height of the turbines. *Testimony of Mr. Smallwood; Exhibit C.14; see generally, Exhibit 4.4, Chapter 3.*
55. Klickitat County had an Avian Study Report (WEST, 2003) prepared as part of its FEIS. The purpose of this study was to "provide data on avian use of potential wind power development areas in Klickitat County." *AR-71, Appendix B, page 1.* In addition to data on avian use, the study included predictions of the number of collisions per turbine by avian group for each of six study regions. *AR-71, Appendix B, page 3.* Two of the avian sampling points were in southeast Skamania County, in the general vicinity of the panhandle that extends south of the Klickitat County line. *AR-71, Appendix B, Figure 1.* However, the study did not include collision predictions with respect to the Skamania County sites. *AR-71, Appendix B, page 3 and Figure 1.*
56. Overall, the WEST study predicted relatively low avian fatality rates throughout Klickitat County, with the highest rate of raptor fatalities west of U.S. 97 and within 1.5 miles of the Columbia River (0.058 per year per turbine), the lowest rate of raptor fatalities east of

²⁹ It should be noted that because no formal application has been submitted to the County, the site plan submitted by the Appellants might not represent the layout ultimately reviewed.

³⁰ Pulmonary barotrauma is lung damage due to the expansion of air in the lungs that is not accommodated by exhalation. In a study of bat fatalities from a wind energy facility in Alberta, Canada, more than 90 percent of the bats exhibited internal hemorrhaging and pulmonary lesions consistent with barotrauma, and approximately half showed no sign of external injury such as would be caused by direct collision. *Exhibit C.14.*

Rock Creek and greater than 1.5 miles from the Columbia River. The prediction for passerines was the same for all study areas, at 1.6 fatalities per year per turbine. The prediction for all birds combined was similar for the study areas, with annual fatalities per turbine ranging from 1.624 east of Rock Creek and more than 1.5 miles from the Columbia River and 1.725 east of Rock Creek and less than 1.5 miles from the Columbia River. *AR-71, Appendix B, Table 32.*

57. The Appellant's wildlife expert, Dr. Kenneth Smallwood, is uniquely qualified to testify on the issue of the effects of wind turbines and other types of infrastructure on wildlife. He has a Ph.D in ecology, and has served as a consultant to the California Energy Commission, conducting research on bird behavior in the Altamont Pass Wind Resources Area. He has published 56 peer-reviewed articles, including three specifically relating to Altamont Pass. *Exhibit G.4.* Mr. Smallwood submitted that the Klickitat County FEIS underestimates the potential impact of wind turbines on birds. Mr. Smallwood reviewed the avian and bat fatality rates of the Big Horn Wind Energy Project, a 133-turbine facility that was recently constructed in Klickitat County. During the environmental review process, the developer of the Big Horn facility predicted low fatality rates for birds and bats, based in part on the results of the Klickitat County FEIS.³¹ The project was then constructed and avian and bat mortality was monitored for a year. Mr. Smallwood evaluated the monitoring results, and developed estimates of actual bird and bat mortality. With respect to raptors, he found that the number of deaths was 12 to 16 times higher than the number predicted in the preliminary studies. With respect to bats, he found that the number of deaths was more than two times higher than originally predicted. *Exhibits C.19 and C.22.*
58. Although the WEST study underestimated the avian mortality associated wind power facilities, it provided some general conclusions that are relevant to the appeals:
- Avian mortality would be reduced by siting turbines where lowest avian use occurs
 - Avian mortality would be reduced by siting turbines away from riparian areas
 - Avian mortality would be reduced by siting turbines in agricultural areas rather than in native landscapes
 - Impacts to raptors would be reduced by avoiding siting turbines at the crests and edges of hilltops, where raptors use the uplift created by the cliff face. "A requirement to consider avoiding wind turbine placement within 50 meters of hilltop rim edges is recommended to be included in the Energy Overlay Comprehensive Plan."

AR-71, page 3-64.

³¹ The estimates associated with the Big Horn facility correlate fairly closely with the estimates contained in the Klickitat County FEIS. In the Avian Study Report, WEST estimated that the number of raptor deaths per turbine per year would range from 0.022 to 0.058 depending on geographic location. The preliminary Big Horn studies estimated that the number of raptors killed per year by the entire project would be three to four, or 0.022 to 0.03 raptors per turbine. *AR-71, Appendix B, Table 32; Exhibit C-19.*

59. Skamania County is predominately forested. Forested areas support more special-status species that would be vulnerable to turbine collision. *Exhibit C.21, page 15; Testimony of Mr. Smallwood.*
60. Skamania County's planning documents acknowledge that at least portions of the County provide habitat for protected species. For example, according to the Swift Subarea Plan, the Swift area may contain or provide habitat for the following bird and bat species that are federally listed as Endangered, Threatened, or Species of Concern: Bald Eagle, Northern Spotted Owl, Pacific Townsend's Big-Eared Bat, and Peregrine Falcon. *Swift Subarea Plan, page 8.* No evidence was presented that the County considered the presence of protected species when determining which zones should allow large-scale wind energy development.
61. Turbine collision is not the only impact to wildlife associated with large-scale wind energy facilities. The infrastructure associated with wind turbine development (roads, transmission lines) has potential to adversely affect wildlife by fragmenting habitat. *Exhibit 4.4, Chapter 3, pages 105-108.* The Planning Commission Recommended Draft and proposed zoning map do not restrict energy uses to areas where infrastructure is available or could be developed with minimal environmental impact. Although energy uses such as large-scale wind energy facilities would be conditionally allowed in substantial portions of the County, the existing road and electricity infrastructure is extremely limited or nonexistent in some areas. *Exhibit H.4; County Exhibit 2.*
62. Pine Creek, located within the Swift Subarea, provides spawning grounds for bull trout, a federally listed species. The U.S. Fish and Wildlife Service considers the Pine Creek bull trout population to be "especially important in achieving recovery for this species." *Exhibit C.17; Swift Subarea Plan, page 8.* Pine Creek is "especially vulnerable to land management activities on account of its steep slopes and highly erosive volcanic soils." *Exhibit C.17, page 2; see also Exhibit C.16.*
63. There are map-based tools that can be used on a countywide level to determine where energy facilities and other development would minimize impacts to wildlife. For example, Mr. Smallwood has developed an indicators approach for assessing the impacts of wind power development on bird species at any location in California. *Exhibit C-21, pages 4-5.*
64. The Planning Commission Recommended Draft contains measures to protect wildlife from impacts associated with large-scale wind energy development. These include the following (paraphrased):
- Take "reasonable efforts" to preserve existing trees, vegetation, and water resources
 - Flag construction limits
 - Design wind energy structures to discourage bird nesting, by using tubular rather than lattice supports, avoiding use of external ladders and platforms, avoiding use of guy wires, and using bird deterrent devices on guy wires

- Control weeds to avoid creating raptor habitat
- Use anti-perching devices on transmission lines
- Set back turbines at least 2,500 feet from known nesting sites of state and/or federally threatened or endangered raptor species and at least 1,500 feet from wetlands identified on the National Wetlands Inventory maps
- Monitor raptor nest activity prior to commencing construction
- Survey avian use of the site prior to finalizing site design
- Remove animal carcasses to avoid attracting foragers
- Should consult with WDFW before making final siting decisions
- Restore temporarily disturbed areas

AR-209 to 210. The measures do not include minimum setbacks from ridgelines.³²

65. Although all development within the County would be subject to the critical areas code, the County did not present any evidence that it evaluated the presence of critical areas prior to establishing zoning districts or allowed uses within the zones. *Testimony of Ms. Witherspoon.*
66. The 2007 Comprehensive Plan contains policies that support protecting wildlife on a planning level rather than on a project-specific basis. These include the following:

Policy E.4.2: Develop strategies for preserving, protecting or restoring important habitats and corridors, particularly if they are at risk of significant degradation. Some strategies may include ... promoting land use plans and development that avoid impacts on habitat....

Policy E.4.4: Coordinate with other jurisdictions and agencies to protect environmentally critical habitats, particularly ecosystems and watersheds that span jurisdictional boundaries.

2007 Comprehensive Plan, page 46.

Air quality

67. According to the Klickitat County FEIS, biomass involves combustion of an organic fuel (such as wood), and consequently the emissions from such facilities include nitrogen oxides, carbon monoxide, particulate matter, sulfur dioxide, greenhouse gases, and toxic air pollutants (i.e., toluene, formaldehyde, etc.). *AR-71, page 3-9.* The FEIS notes that both biomass and natural gas-fired plants could affect visibility within the National Scenic Area, even though the Scenic Area is not within the overlay, and recommends the use of state-of-the-art air pollution technologies to mitigate impacts. *AR-71, page 1-7.*

³² The County Critical Areas Ordinance would also not require a minimum setback from the edge of a bluff or mountain ridge. Development on slopes steep enough to be classified as a Landslide Hazard Area requires preparation of a geotechnical report. No minimum setback is specified. *SCC 21A.06.020.*

68. The United States Forest Service (USFS) monitors air quality within the Scenic Area, as well as within national forests in the Pacific Northwest region, through chemical analysis of lichen tissue. Based on study conducted between 1993 and 2001, the USFS found that mean concentrations of sulfur, nitrogen, lead, cadmium, copper, and zinc within the Scenic Area were significantly higher than means within the national forests, and were comparable to levels found within urban areas. *Exhibit A.3*. Cultural resources such as rock art might be adversely affected by the air pollution. *Exhibits A.1 and A.5*. Other ecological effects associated with nitrogen deposition are described in *Exhibit A.4*. *Exhibit A.4*.
69. The visibility within the Columbia Gorge National Scenic Area is poor compared to the conditions within many national parks and scenic areas in the western U.S., and is comparable to conditions within locations in California and in northwest Washington. *Exhibit A.1, pages 3 and 4*.
70. The Planning Commission Recommended Draft includes the following air quality/pollution control standard relating to bio-energy facilities: "All applicable air emission permits shall be obtained and all conditions complied with." *AR-214*.

Noise/Health

71. The Planning Commission Recommended Draft contains the following standards with respect to the noise generated by large-scale wind energy facilities:
- i. The owner/operator shall operate the project in compliance with applicable Washington State Environmental Noise Levels, Chapter 173-60 WAC.
 - ii. Applicants shall provide documentation of expected noise generation levels.

AR-207. The Washington noise standards are based on the land use classification of both the noise source and the noise receiver. When the receiver is a residential property, the daytime noise limit ranges from 55 to 60 dBA³³ depending on the classification of the noise source. At night, the maximum ranges from 45 to 50 dBA. *WAC 173-60-040*.

72. Mr. Richard James, an acoustical engineer, provided credible testimony that wind turbines generate a type of noise that is not adequately measured by the dBA scale used in the Washington noise standards. The dBA scale is designed to detect noises audible to humans. Wind turbines generate low-frequency noise (20 Hz or lower) that might cause the body to resonate even if it is not audible. Such effects are measurable on the C-weighted scale (dBC). *Testimony of Mr. James*.
73. Wind turbines have unique sound characteristics due to the interaction of the blades with the air around the towers. As described in one of the articles submitted by the Appellants:

³³ "dBA" means the sound pressure level in decibels measured using the "A" weighting network on a sound level meter." *WAC 173-60-020*.

“The interaction of the blades with air turbulences around the towers create low frequency and infrasound components, which modulate the broadband noise³⁴ and create fluctuations of sound level. The low frequency fluctuations of the noise is described as ‘swishing’ or ‘whooshing’ sound, creating an additional disturbance due to the periodic and rhythmic characteristic.” *Exhibit 1.12, page 11*. Mountainous conditions can exacerbate the noise effects of wind turbines. *Testimony of Mr. James*.

74. Mr. James recommended a minimum distance of 1.2 miles between turbines and residences, based on health effects research conducted by Dr. Nina Pierpont. *Testimony of Mr. James*.
75. Dr. Pierpont, a pediatrician, interviewed by telephone 23 members of ten families, and through those interviews obtained information on a total of 37 people (she obtained information on young children from their parents). The ten families were not from the same town or situated around the same wind farm; some families lived in Canada and others lived in various Western European countries. Only one family lived in the United States. The families lived distances ranging from 0.19 mile to 0.93 mile from minimum 328-foot-tall, modern (i.e., constructed 2004 or later) wind turbines. Six of the ten families lived less than one-half mile from the turbines. Based on the interviews, Dr. Pierpont found that most study members experienced sleep disturbance, and at least half experienced a variety of other systems such as headaches, dizziness, and memory problems, which symptoms improved when the member was away from the turbines.³⁵ Dr. Pierpont calls the constellation of symptoms “Wind Turbine Syndrome.” Her theory is that the low-frequency noise or vibration associated with wind turbines stimulates receptors for the balance system in a discordant fashion. Dr. Pierpont recommends that wind turbines be set back a distance of at least 1.2 miles from residences.³⁶ *Exhibit 8.3 (see in particular, pages 8, 12, 20, 22, 23, 26, 60, and 61)*.
76. Dr. Pierpont’s research has several limitations. The study was based on an extremely small number of families, and the only families that were included in the study were those in which a member reported severe effects and the family considered the problem to be serious enough to take action to reduce turbine exposure (such as moving to a new location). Dr. Pierpont did not physically examine any of the participants; the information obtained was based on medical histories taken by telephone. *Exhibit 8.3, page 18; Testimony of Dr. Pierpont*. The study was not epidemiological in nature; it does not show how prevalent any of the symptoms were within the larger community. Individuals outside of the selected families who lived near turbines but did not experience symptoms were not interviewed. *Testimony of Dr. Pierpont; Exhibit 8.3, page 51*. Wind Turbine

³⁴ “Broadband noise is characterized by a continuous distribution of sound pressure with frequencies greater than 100 Hz.” *Exhibit 1.12, page 4*.

³⁵ Mr. Banks objected to the hearsay nature of Dr. Pierpont’s testimony on this issue.

³⁶ All of Dr. Pierpont’s subjects lived less than a mile from wind turbines. The recommendation of 1.2 miles is based on surveys conducted by Robyn Phipps of New Zealand. *Exhibit 8.3, page 8*. Robyn Phipps is not a medical doctor. *Exhibit 8.1, page 2*.

Syndrome (or the same group of symptoms) is not described in any medical journal or other professional literature.³⁷ *Exhibit 8.3, page 15; Testimony of Dr. Pierpont.*

77. The National Academy of Sciences does not consider noise produced by wind turbines to be a “major concern” for people living more than a half-mile from the turbines. *Exhibit 4.4, Chapter 4, page 159.* However, it notes that “industry standards ... for assessing and documenting noise levels emitted may not be adequate for nighttime conditions and projects in mountainous terrain. This work on understanding the effect of atmospheric stability conditions and on site-specific terrain conditions and their effects on noise needs to be accounted for in noise standards. In addition, studies on human sensitivity to very low frequencies are recommended.” *Exhibit 4.4, Chapter 4, page 176.*

Shadow Flicker

78. Shadow flicker is the phenomenon in which the blades of a wind turbine, as they rotate in sunny conditions, “cast moving shadows on the ground resulting in alternating changes in light intensity.” *Exhibit 4.4, Chapter 4, page 160.*
79. According to one article, for individuals with photosensitive epilepsy (one in 4,000 people), “flicker from turbines that interrupt or reflect sunlight at frequencies greater than 3 Hz poses a substantial risk of inducing photosensitive seizures.” *Exhibit 2.1, page 4.* However, modern large wind turbines do not generate shadow flicker at frequencies greater than 3 Hz. *Exhibit 4.4, Chapter 4, page 161 (“Flicker frequency due to a turbine is on the order of the rotor frequency (i.e., 0.6 – 1.0 Hz)”); see also Exhibit 2.1, page 4.*
80. Although shadow flicker might still be considered annoying even if not an actual health hazard, shadow flicker only occurs during a limited portion of the day, and only during certain conditions. As described in the National Academy of Sciences publication on wind-energy projects, “Even in the worst situations, shadow flicker only lasts for a short time each day – rarely more than half an hour. Moreover, flicker is observed only for a few weeks in the winter season.” *Exhibit 4.4, Chapter 4, page 161.*
81. Shadow Flicker can be easily modeled on a project-specific basis, and shadow flicker modeling was performed for the Wild Horse Wind Power Project in Kittitas County. *Exhibit 4.4, Chapter 4, page 161.* As described in the FEIS for the project, the shadow flicker frequency for each turbine would be less than one-fifth the frequency reported to trigger seizures, and the project would not have a shadow flicker impact on residences due to distance and intervening terrain. *Exhibit 5.2, page 3.15-1.* With respect to an off-site alternative location with potential shadow flicker impacts (potential exposure ranging from six minutes to two hours), micro-siting of some of the turbines was identified as a potential mitigation measure. *Exhibit 5.2, page 3.15-2.*

³⁷ “Other than articles on the internet, there is currently no published research on wind turbine associated symptoms.” *Exhibit 8.3, page 15.*

CONCLUSIONS

Jurisdiction:

The Hearing Examiner is granted authority to conduct hearings and make decisions on appeals of State Environmental Policy Act (SEPA) threshold determinations pursuant to Skamania County Code (SCC) 2.80.060(A)(13).

Standards for Review of a SEPA Threshold Determination:

SEPA requires an Environmental Impact Statement (EIS) to be prepared "on proposals for legislation and other major actions having a probable significant, adverse environmental impact." RCW 43.21C.031.

- "Significant" as used in SEPA means a reasonable likelihood of more than a moderate adverse impact on environmental policy. Significance involves context and intensity and does not lend itself to a formula or a quantifiable test. *WAC 197-11-794*. Several marginal impacts when considered together may result in a significant adverse impact. *WAC 197-11-330(3)(c)*.
- "Probable" as used in SEPA means likely or reasonably likely to occur. Probable is used to distinguish likely impacts from those that merely have a possibility of occurring, but are remote or speculative. *WAC 197-111-782*.

In *King County v. Boundary Review Board*, 122 Wn.2d 648 (1993), the Washington Supreme Court clarified that the term "probable" does not mean that an impact must be "inevitable" before an EIS may be required. In that case, the City of Black Diamond had issued a DNS for a proposed annexation of unincorporated King County land. The land was "largely uninhabited" (*Id.* at 656), and while some of the owners identified preferred future land uses, none presented a formal development proposal to the City. In response to argument that any future development of the property is too speculative to warrant full environmental review, the Court held, "a proposed action is not insulated from full environmental review simply because there are no existing specific proposals to develop the land in question or because there are no immediate land use changes which will flow from the proposed action. Instead, an EIS should be prepared where the responsible agency determines that significant adverse environmental impacts are probable following the government action." *Id.* at 664. The Court explained its reasoning as follows:

One of SEPA's purposes is to provide consideration of environmental factors at the earliest possible stage to allow decisions to be based on complete disclosure of environmental consequences. Decision-making based on complete disclosure would be thwarted if full environmental review could be evaded simply because no land-use changes would occur as a direct result of a proposed government action. Even a boundary change, like the one in this case, may begin a process of government action which can "snowball" and acquire virtually unstoppable administrative inertia.

Id.

In determining an impact's significance, the responsible official must take into account that:

- (a). The same proposal may have a significant adverse impact in one location but not in another location;
- (b). The absolute quantitative effects of a proposal are also important, and may result in a significant adverse impact regardless of the nature of the existing environment;
- (c). Several marginal impacts when considered together may result in a significant adverse impact; For some proposals, it may be impossible to forecast the environmental impacts with precision, often because some variables cannot be predicted or values cannot be quantified.
- (d). A proposal may to a significant degree:
 - i. Adversely affect environmentally sensitive or special areas, such as loss or destruction of historic, scientific, and cultural resources, parks, prime farmlands, wetlands, wild and scenic rivers, or wilderness;
 - ii. Adversely affect endangered or threatened species or their habitat;
 - iii. Conflict with local, state, or federal laws or requirements for the protection of the environment; and
 - iv. Establish a precedent for future actions with significant effects, involves unique and unknown risks to the environment, or may affect public health or safety.

WAC 197-11-330(3).

A threshold determination “shall not balance whether the beneficial aspects of a proposal outweigh its adverse impacts, but rather, shall consider whether a proposal has any probable significant adverse environmental impacts.” *WAC 197-11-330(5)*. Thus, in *King County v. Boundary Review Board*, the Court rejected the argument that an EIS need not be prepared for the annexation proposal because development could also take place under county jurisdiction, stating, “The specter of adverse environmental effects in the absence of government action ... is itself not a justification for evading full environmental review.” *King County v. Boundary Review Board*, 122 Wn.2d at 666. Even proposals designed to improve the environment might have significant adverse environmental impacts. *WAC 197-11-330(5)*.

The lead agency must make its threshold determination “based upon information reasonably sufficient to evaluate the environmental impact of a proposal.” *WAC 197-11-335*.

If a DNS is issued, the agency has the burden of demonstrating “that environmental factors were considered in a manner sufficient to be a prima facie compliance with the procedural dictates of SEPA.” *Lassila v. City of Wenatchee*, 89 Wn.2d 804, 814 (1978). To uphold the DNS, the reviewing body “must be presented with a record sufficient to demonstrate that ACTUAL consideration was given to the environmental impact of the proposed action or recommendation.” *Id.* (*emphasis in original*).

Clear error is the standard of review applicable to substantive decisions under SEPA.

Cougar Mt. Assocs. v. King County, 111 Wn.2d 742, 747, 765 P.2d 264 (1988). The determination by the governmental agency is clearly erroneous only if the reviewing tribunal is left with "the definite and firm conviction that a mistake has been committed." *Id.* at 747 (quoting *Polygon Corp. v. Seattle*, 90 Wn.2d 59, 69, 578 P.2d 1309 (1978)). In deciding this appeal, the Hearing Examiner must accord the County's SEPA determination "substantial weight." *RCW 43.21C.090*. The burden of proof is on the Appellants to show that the threshold determination was clearly erroneous.

Conclusions Based on Findings:

1. The County has not demonstrated that it has considered environmental factors to the extent required by SEPA. Most significantly, the County did not consider County-specific environmental studies prior to developing the zoning text and map amendments and did not consider the types of development that might result from the amendments. The County was not able to articulate a strong rationale for some of the proposed alternative energy development standards, even though such standards have the potential to create environmental impacts. *Findings 12, 27, 28, 29, and 65.*
2. The Appellants have demonstrated, consistent with *King County v. Boundary Review Board*, that development with significant adverse environmental impacts is probable after adoption of the proposed zoning amendments.
 - A. The zoning amendments would facilitate the development of large-scale wind energy and other alternative energy facilities on or near lands known for their unique scenic resources and habitat value. Some of the alternative energy uses are not identified in the Comprehensive Plan or the existing zoning code. *Findings 3, 11, 12, 13, 14, 16, 18, 42, and 43.*
 - B. The potential significant, adverse environmental impacts of large-scale wind energy facilities are many and well documented. The Hearing Examiner finds most compelling the evidence regarding aesthetic and wildlife impacts. These impacts can and should be evaluated on a planning level rather than when individual projects are proposed. With full environmental analysis, the County might decide to refine the zoning map or development regulations to avoid environmental impacts. *Findings 40 – 66.*
 - C. Although based on the evidence submitted the Hearing Examiner is not convinced that an adverse impact to public health is probable if wind turbines are allowed to be sited less than 1.2 miles from residences, wind turbines do generate noise and the impact should be evaluated prior to adopting a setback standard. *Findings 71-77.*
 - D. The significant, adverse environmental impacts associated with wind energy facilities are not ameliorated by the conditional use permit requirement. Under the proposed zoning amendments, a conditional use cannot be denied. *Finding 17.*

- E. The significant, adverse environmental impacts associated with wind energy facilities would not be fully addressed by project-specific environmental impact statements. Because project proposals are tied to specific parcels of land, the ability to consider alternative locations that might reduce environmental impacts is limited.
- F. Development of wind energy facilities is probable after the zoning action due to the County's unique wind resources, the County Commissioners' expressed interest in and support of alternative energy development, and the fact that a developer has already approached the County with a potential wind power project. *Findings 31-38.*
3. The significance of the County action is not diminished by the fact that only a small fraction of the County located outside of the scenic area and the incorporated areas is privately owned. Even five percent of the County's total acreage (an amount less than the actual private ownership) is a significant amount of land.³⁸ Further, no evidence or legal authority was presented to suggest that the County's regulations would not apply to the 60,000 acres of land owned by the State of Washington. Klickitat County, for example, is processing permit applications for wind energy facilities located on Washington DNR land. *Finding 40.* Finally, even if the County does not have jurisdiction to regulate public lands within its boundaries³⁹, the County's regulations might be influential to state and federal decision makers when evaluating requests for alternative energy facilities. For example, 36 CFR 251.56 states that special use approvals on National Forest land "may be conditioned to require State, county, or other Federal agency licenses, permits, certificates, or other approval documents, such as a Federal Communication Commission license, a Federal Energy Regulatory Commission license, a State water right, or a county building permit." *36 CFR 251.56(a)(2).*
4. Contrary to the County's assertion, the proposed wind energy regulations would not be preempted by the Washington Energy Facilities Site Locations Act (EFSLA) (Chapter 80.50 RCW) automatically. The EFSLA establishes a certification process that is mandatory for development of certain types of energy facilities (e.g., natural gas transmission pipelines in excess of 14 inches in diameter and 15 miles in length; stationary thermal power plants with generating capacity of 350,000 KW or more; facilities capable of processing more than 25,000 barrels per day of petroleum into refined products) but that is voluntary for the development of energy facilities that exclusively use alternative energy resources, such as wind, solar, geothermal, and biomass energy. *RCW 80.50.060; RCW 80.50.020(7), (11), (15), and (18).* When certification under the EFSLA is sought, the Energy Facility Site Evaluation Council holds a public hearing "to determine whether or not the proposed site is consistent and in compliance with city, county, or regional land use plans or zoning ordinances." *RCW*

³⁸ In *Ullock v. Bremerton*, 17 Wn. App. 573 (1977) the court reviewed an EIS prepared for a rezone of five acres.

³⁹ In *South Dakota Mining Assoc. v. Lawrence Co.*, 155 F.3d 1005 (1998), the court determined that federal laws allowing mining on National Forest land preempted a county ordinance prohibiting mining.

80.50.090. If the site is not consistent with the local ordinances, then the Council must determine whether to recommend to the governor that the state preempt the local ordinances. WAC 463-28-060. Even if the Council recommends preemption, it must include conditions in the draft certification agreement that considers local interests and the purposes of the ordinances that are preempted. WAC 463-28-070. The governor ultimately decides whether to approve the certification agreement. RCW 80.50.100. Because state preemption must be applied for, is discretionary, and is granted only after consideration of local ordinances, RCW 80.50 does not provide a rationale for avoiding full environmental review of the County's alternative energy regulations.

5. The Appellants have met their burden of proving that the County's issuance of a DNS was in error.

DECISION

Based upon the preceding Findings and Conclusions, the appeals of the October 8, 2008 Determination of Nonsignificance issued for the County's proposed zoning text and map amendments are granted. The Determination of Nonsignificance is reversed, and remanded to the County for preparation of an Environmental Impact Statement for the zoning text and map amendments.

Dated February 19, 2009.

Toweill Rice Taylor
Hearing Examiners for Skamania County

By:


LeAnna C. Toweill

**Appendix A
Exhibit List**

County Exhibits

Note: Citations to County Exhibit 1 items are to the "Administrative Record" (AR) page number only.

1. Record for Skamania County SEPA on Planning Commission Recommended Draft Zoning Text and Map Revisions and Minor Comprehensive Plan Map Amendments, File No. SEP-08-35 (April, 2008 to November 3, 2008), which includes the following:

Date	Description	Pages
11/3/08	Pre-Hearing Order from LeAnna Toweill, Hearing Examiner	1-2
10/22/08	Notice Administrative Appeal for SEP-08-35 from Reeves, Kahn, & Hennesy, Attorneys for Friends of the Gorge	3-23
10/22/08	Certificate of Mailing from Nathan J. Baker, Staff Attorney for Friends of the Gorge	24-28
10/22/08	Notice of Administrative Appeal and Certificate of Mailing for SEP-08-35 from Save Our Scenic Area, Richard Aramburu, Attorney	29-42
10/20/08	Email from Bonnie Anderson, Skamania County Planning Department - Administrative Assistant, to Nathan Baker	43-44
10/14/08	Affidavit of Publication for the Determination of Non-Significance SEP-08-35, Skamania County Pioneer	45
10/8/08	Determination of Non-Significance with no Checklist	46-46A
10/8/08	Determination of Non-Significance with Checklist	47
10/7/08	Certificate of Mailing for SEP-08-35 by Bonnie Anderson	64-68
10/2/08	Publication notice for SEP-08-35 to Skamania County Pioneer	69-70
	Compact Disc - Klickitat County Energy Overlay Zone Draft EIS and Final EIS; Klickitat County Energy Overlay Zone - FEIS Documents Incorporated by Reference 1 of 2; Klickitat County Energy Overlay Zone - FEIS Documents Incorporated by Reference 2 of 2	71
9/2/08	Skamania County Code Title 21 - Zoning - Planning Commissions Recommended Draft and Minor Comprehensive Plan Map Amendments	72-232
8/2008	Research for SEPA Determination and Zoning Ordinance (WA EFSEC Order on Remand, No. 831)	233-237
5/2008	Research for SEPA Determination Zoning Ordinance (SEPA checklists from other jurisdictions)	238-333
4/2008	Research for SEPA Determination Zoning Ordinance (checklists, WA noise standards, WDFW Windpower Guidelines)	334-359

2. Full-size color map entitled "PC Recommended Draft Skamania County Zoning Map"

Appellant Save our Scenic Area Exhibits

Note: Citations to SOSA Exhibits are to the numbers as listed. Exhibits 8.1, 8.2 and 8.3 were admitted into the record but not assigned exhibit numbers at the hearing. Numbers are assigned for the first time here.

1.1 NINA PIERPONT, M.D., Ph.D., FAAP
Curriculum Vitae

Author: Nina Pierpont, M.D., Ph.D., FAAP
Dated July 5, 2006

1.2 PIERPONT LETTER TO SCHWARTZ, GENOUILLE, FRANCE
Author: Nina Pierpont, M.D., Ph.D., FAAP
Dated February 23, 2008

1.3 NOISY WIND AND HOT AIR
Author: Nina Pierpont, M.D., Ph.D., FAAP
Dated May 7, 2005
Malone Telegram (New York)

1.4 HEALTH EFFECTS OF WIND TURBINE NOISE
Author: Nina Pierpont, M.D., Ph.D., FAAP
Dated March 2, 2006
www.ninapierpont.com

1.5 WIND TURBINE SYNDROME
Testimony before the New York State Legislature Energy Committee explaining Wind Turbine Syndrome and wind turbine siting.
Author: Nina Pierpont, M.D., Ph.D., FAAP
Dated March 7, 2006

1.6 LOCATION, LOCATION, LOCATION
Author: The Noise Association, UK Noise Association, 2nd Floor, Broken Wharf House, 2 Broken Wharf, London EC4V 3DT, U.K.
Dated July 2006
www.ukna.org.uk

1.7 NOISE RADIATION FROM WIND TURBINES INSTALLED NEAR HOMES: EFFECTS ON HEALTH
Authors: Barbara J. Frey, BA, MA, and Peter J. Hadden, BSc, FRICS
Dated February 2007
www.windturbinenoisehealthhumanrights.com

1.8 EFFECTS OF THE WIND PROFILE AT NIGHT ON WIND TURBINE SOUND
Author: G.P. van den Berg
Dated 2003 (Submitted to Elsevier Ltd Jan 2003, accepted Sept 2003)
www.elsevier.com/locate/jsvi (Journal of Sound and Vibration); www.sciencedirect.com,
g.p.van.den.berg@phys.rug.nl

1.9 INDUSTRIAL WIND TURBINES, INFRASOUND AND VIBRO-ACOUSTIC DISEASE (VAD)
Authors: Professor Mariana Alves-Pereira, School of Health Sciences, Lusofona University, Portugal and Dept. of Environmental Sciences and Engineering, New University of Lisbon, Portugal; Nuno Castelo Branco, MD, Surgical Pathologist and President, Scientific Board, Center for Human Performance.
Dated May 31, 2007
vibroacoustic.disease@gmail.com

1.10 INFRASOUND AND LOW FREQUENCY NOISE DOSE RESPONSES: CONTRIBUTIONS
Authors: Professor Mariana Alves-Pereira, School of Health Sciences, Lusofona University, Portugal and Dept. of Environmental Sciences and Engineering, New University of Lisbon, Portugal; Nuno Castelo Branco, MD, Surgical Pathologist and President, Scientific Board, Center for Human Performance.
Dated 28-31 August 2007
INTER-NOISE 2007, Istanbul, Turkey (International conference)

1.11 WHO HAS HEARD THE WIND

Author: Jules Smith
Dated 2006 (Copyright LightningStrike Studios)
www.lightningstrikestudios.com

1.12 WIND FARM NOISE AND REGULATIONS IN THE EASTERN UNITED STATES from the
Second International Meeting on Wind Turbine Noise, Lyon, France, 2007

Author(s): Hilkat Soysal and Oguz Soysal, Department of Physics and Engineering, Frostburg State
University, Frostburg MD
Dated September 20-21, 2007
renewable@frostburg.edu

1.13 WIND TURBINES, NOISE AND HEALTH

Author(s): Dr. Amanda Harry, M.B., Ch.B, P.G.Dip.E.N.T.
Dated February 2007

2.1 WIND TURBINES, FLICKER, AND PHOTOSENSITIVE EPILEPSY: CHARACTERIZING THE
FLASHING THAT MAY PRECIPITATE SEIZURES AND OPTIMIZING GUIDELINES TO PREVENT
THEM

Author(s): Graham Harding, Neurosciences Institute Aston University, Birmingham, U.K.; Pamela
Harding, Neurosciences Institute Aston University; and Arnold Wilkins, Department of Psychology,
University of Essex, Colchester, U.K.

Dated February 2008
Blackwell Publishing, Inc. International League Against Epilepsy.

2.2 Scenic Analysis

- a. Diagram showing wind turbine placement.
- b. Color diagram showing wind turbine placement and visibility from the National Scenic Area.
- c. Visual simulation based on the turbine location map provided by SDS Lumber and the actual
turbine height specification, demonstrating the visual impacts and providing help in understanding
the visibility of project.

2.3 Topographical Map of Skamania County area

3.1 FRANCE'S NATIONAL ACADEMY OF MEDICINE CALLS FOR 1.5 KM SETBACK FOR ALL
INDUSTRIAL WIND TURBINES FROM RESIDENCES

Translation of publication notice for "Repercussions of wind turbine operations on human health"
Author: Dr. Chantal Gueniot
Dated March 29, 2006

3.2 HEALTH, HAZARD AND QUALITY OF LIFE NEAR WIND POWER INSTALLATIONS; HOW
CLOSE IS TOO CLOSE?

Author: Nina Pierpont, MD, PhD
Dated March 2, 2005
Malone Telegram, New York

4.1 WIND TURBINE SYNDROME: NOISE, SHADOW, FLICKER AND HEALTH

Author: Nina Pierpont, M.D., Ph.D., FAAP
Dated August 1, 2006

4.2 SUMMARY REPORT: LITERATURE SEARCH ON THE POTENTIAL HEALTH IMPACTS
ASSOCIATED WITH WIND-TO-ENERGY TURBINE OPERATIONS

Author: Robert C. Frey, Ph.D, Chief, Health Assessment Section; John R. Kollman, R.S., Toxicologist,
Health Assessment Section, Ohio Health Department.

Dated March, 2008

Health Assessment Section, Bureau of Environmental Health, Ohio Department of Health

4.3 IMPACT OF WIND FARMS ON PUBLIC HEALTH

Author: Kansas Legislative Research Department

Dated July 18, 2007 (Revised)

kslegres@klrd.state.ks.us, <http://www.kslegislature.org/klrd>

4.4 ENVIRONMENTAL IMPACTS OF WIND-ENERGY PROJECTS

Author: The National Academy of Sciences Committee on Environmental Impacts of Wind-Energy Projects (Board on Environmental Studies and Toxicology).

Dated 2007

National Academies Press, 500 Fifth Street, NW, Washington, D.C. 20001; www.nap.edu,

http://books.nap.edu/catalog.php?record_id=11935

4.5 PROVISIONS OF THE PROPOSED STATE ENERGY PLAN ON INDUSTRIAL WIND-ENERGY DEVELOPMENT

Letter from Congressman Alan B. Mollohan, 1st Dist., WV, to the director of the West Virginia Division of Energy.

Author: Congressman Alan B. Mollohan, First District, West Virginia

Dated October 31, 2007

Alan B. Mollohan, Congress of the United States, House of Representatives, 2302 Rayburn HOB, Washington DC 20515-4801

5.1 KITTITAS VALLEY WIND POWER PROJECT – FEIS Table of Contents¹ at

<http://www.efsec.wa.gov/kittitaswind/FEIS/kvfeis.shtml>

5.2 WILD HORSE WIND POWER PROJECT - EIS at

<http://www.efsec.wa.gov/wildhorse/feis/whfeis.shtml>

5.3 DESERT CLAIM WIND POWER PROJECT - FEIS Table of Contents at

<http://www.efsec.wa.gov/Desert%20Claim/FEIS/FEIS.shtml>²

5.4 STATELINE WIND ENERGY PROJECT – Federal Register: June 5, 2000 (Volume 65, Number 108)

5.5 KLUCKITAT COUNTY ENERGY OVERLAY ZONE - FEIS available at

<http://www.klickitatcounty.org/planning/ContentROne.asp?fContentIdSelected=2119658607&fCategoryIdSelected=948111261>

6.1 WINDY POINT II WIND PROJECT - DS within scoping notice of 7/9/08 at

<http://www.klickitatcounty.org/planning/FilesHtml/WPSN.pdf>

6.2 GOODNOE II WIND PROJECT - DS within scoping notice at

<http://www.klickitatcounty.org/planning/FilesHtml/Goodnoe%20II%20Wind%20Project%20Scoping%20Notice.pdf>

6.3 HARVEST WIND - DS within scoping notice of 4/24/08 at

<http://www.klickitatcounty.org/Planning/ContentROne.asp?fContentIdSelected=549483787&fCategoryIdSelected=948111261>

¹ Appellant SOSA offered the entire EIS but only provided the Table of Contents at the hearing. The Hearing Examiner did not visit the website and did not consider the remainder of the document.

² See Footnote 1.

6.4 JUNIPER CANYON - DS within scoping notice at
<http://www.klickitatcounty.org/planning/FilesHtml/Juniper%20Canyon%20Scoping%20Notice.pdf>

7.1 Resume of Rick James, E-Coustics Solutions

8.1 Evidence of Dr. Robyn Phipps, In the Matter of the Moturimu Wind Farm, March 2007
[http://www.wind-watch.org/documents/writ of prohibition-content/uploads/hipps-moturimutestimony.pdf](http://www.wind-watch.org/documents/writ%20of%20prohibition-content/uploads/hipps-moturimutestimony.pdf)

8.2 Visual and Noise Effects Reported by Residents Living Close to Manawatu Wind Farms: Preliminary Survey Results, by Dr. Robyn Phipps et al.

8.3 Wind Turbine Syndrom, A Report on a Natural Experiment, by Nina Pierpont, MD, PhD (10-17-08 draft)

Appellants Friends of the Columbia Gorge et al. Exhibits

Note: Citations to these exhibits are to the letter/number combinations as listed. The "F" series documents are admitted for standing purposes only.

Ex.	Document Description	Date
A.1	Air Quality Issues in the Columbia River Gorge National Scenic Area, USDA Forest Service, Pacific Northwest Region, Air Resource Management Program, available at http://www.fs.fed.us/r6/air/gorgis.pdf	Apr. 1999
A.2	Excerpts from the Management Plan for the Columbia River Gorge National Scenic Area pertaining to the protection and enhancement of air quality, available at http://www.gorgecommission.org/managementplan.cfm	Adopted May 2000
A.3	Air Quality Biomonitoring in the Columbia River Gorge National Scenic Area by the US Forest Service, 1993-2001, Geiser, L. H. and B. Bachman, USDA Forest Service, Pacific Northwest Region, Air Resource Management Program, available at http://ocid.nacse.org/airlichenPDF/AQ_CRGNSA.pdf	Sep. 27, 2001
A.4	Ecological effects of nitrogen deposition in the western United States, Fenn, M.E., Baron, J.S., Allen, E.B., et al. <i>BioScience</i> , vol. 53, no. 4, pp. 404-20, available at http://www.cdph.state.co.us/ap/trmnp/exhibith.pdf	Apr. 2003
A.5	Winter Deposition of Nitrogen and Sulfur in the Eastern Columbia River Gorge National Scenic Area, Mark E. Fenn and Timothy J. Blubaugh, USDA Forest Service, Pacific Southwest Research Station, available at http://www.fs.fed.us/psw/programs/atdep/col_river/crgnsa_final_report.pdf	Feb. 3, 2005
B.1	Landscape Aesthetics: A Handbook for Scenery Management, Forest Service, USDA (appendices omitted from exhibit), available at http://www.urbanforestrysouth.org/resources/library/landscape-aesthetics-ah-701-complete-document/at_download/file_name	Dec. 1995
B.2	Declaration of Margo Blosser	Sep. 2, 2008
B.3	Maps of wind turbine locations in southeast Skamania County visible from I-84 and Cook Underwood Road, Gorge GIS	Sep. 2, 2008
B.4	Declaration of Dean Apostol	Jan. 14, 2009
B.5	"Skamania County Alternative Energy Code Project" PowerPoint Presentation, Dean Apostol	Jan. 14, 2009
C.1	Development of a practical modeling framework for estimating the impact of wind technology on bird populations, Morrison, M.L. and K.H. Pollock, National Renewable Energy Laboratory, Golden, Colorado, available at http://www.nrel.gov/wind/pdfs/23088.pdf	Nov. 1997
C.2	Avian risk and fatality protocol, Morrison, M.L. and K.H. Pollock, National Renewable Energy Laboratory, Golden, Colorado, available at	1998

	http://www.nrel.gov/docs/fy99osti/24997.pdf	
C.3	Sample map of designated critical wildlife habitat circles surrounding Northern spotted owl site centers in a portion of Skamania County (Township 3N, Range 9E), Washington Department of Natural Resources	May, 2000
C.4	Excerpts from Chapter 22-16 of the Washington Administrative Code relevant to the protection of Northern spotted owls (<i>Strix occidentalis caurina</i>) in Skamania County	July 2001
C.5	The Butterflies of Cascadia: A Field Guide to All the Species of Washington, Oregon and Surrounding Territories, Robert Michael Pyle	2002
C.6	Interim Guidance on Avoiding and Minimizing Wildlife Impacts from Wind Turbines, U.S. Fish and Wildlife Service, available at http://www.fws.gov/habitatconservation/wind.pdf	May 13, 2003
C.7	Wind Turbine Interactions with Birds and Bats: A Summary of Research Results and Remaining Questions, National Wind Coordinating Committee, available at http://www.nationalwind.org/publications/wildlife/wildlife_factsheet.pdf	Nov. 2004
C.8	Relationships between Bats and Wind Turbines in Pennsylvania and West Virginia, An Assessment of Fatality Search Protocols, Patterns of Fatality, and Behavioral Interactions with Wind Turbines: A Summary of Findings from the Bats and Wind Energy Cooperative's 2004 Field Season, Bats and Wind Energy Cooperative, available at http://www.batcon.org/wind/BWEC2004Reportssummary.pdf	2005
C.9	Memo to Wind Energy Production and Wildlife Conservation Planners, Tuttle, M.D., available at http://www.protectpendleton.com/nbw_batmemo.htm	Jan. 2005
C.10	Wind Power: Impacts on Wildlife and Government Responsibilities for Regulating Development and Protecting Wildlife, US Government Accountability Office, available at http://www.gao.gov/new.items/d05906.pdf	Sep. 2005
C.11	Assessing Impacts of Wind-Energy Development on Nocturnally Active Birds and Bats: A Guidance Document, Kunz, T.H, Arnett, E.A., Cooper, B.M., et-al. <i>Journal of Wildlife Management</i> , 71(8):2449-2486, available at http://www.nationalwind.org/pdf/Nocturnal_MM_Final-JWM.pdf	Nov. 2007
C.12	Letter from Ted Labbe and Michael Ritter, Washington Department of Fish and Wildlife, to Karen Witherspoon, Skamania County Planning Department, regarding comments on 2008 draft Skamania County zoning update	June 5, 2008
C.13	American Society of Mammalogists unanimous resolution: Effects of wind-energy facilities on bats and other wildlife, available at http://www.wind-watch.org/documents/wp-content/uploads/asm-windenergyresolution.pdf	June 21-25, 2008
C.14	Barotrauma is a Significant Cause of Bat Fatalities at Wind Turbines, Baerwald, E.F., D'Amours, G.H., Klug, B.J, Barclay, R.M.R., <i>Current Biology</i> , Vol 18, R695-R696.	Aug. 26, 2008
C.15	Declaration of K. Shawn Smallwood	Sep. 2, 2008
C.16	Review of Habitat Assessment Report for Forest Road 25 and Loowit Lane, Steve Manlow, Washington Department of Fish and Wildlife	May 5, 2005
C.17	Potential development north of Swift Reservoir in Skamania County, known as the North County Area, Ken S. Berg, U.S. Fish and Wildlife Service	Dec. 8, 2005
C.18	Oregon Columbia Plateau Ecoregion Wind Energy Siting and Permitting Guidelines	Sept. 29, 2008
C.19	Avian and Bat Mortality at the Big Horn Wind Energy Project, Klickitat County, Washington, K. Shawn Smallwood	Oct. 18, 2008
C.20	How <i>too much</i> wind power may hurt salmon, Dan Tilkin, KATU 2 Portland, available at http://www.katu.com/outdoors/featured/33967994.html	Nov. 21, 2008
C.21	Second Declaration of K. Shawn Smallwood	Dec. 8, 2008
D.1	Washington wind power and speed maps, Northwest Sustainable Energy for Economic Development, available at http://www.windpowermaps.org/windmaps/states.asp#washington	June 2002
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D.3	Permitting of Wind Energy Facilities: A Handbook, National Wind Coordinating Committee, available at http://www.nationalwind.org/publications/siting/permitting2002.pdf	Aug. 2002
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D.5	Excerpts from Klickitat County's Energy Overlay Zone Final EIS	Sep. 2004
D.6	Agenda and materials, Columbia Gorge Bi-State Renewable Energy Zone Leadership Meeting, Mid-Columbia Economic Development District	Oct. 19, 2007
D.7	<i>Rose v. Chaikin</i> , 187 N.J. Super. 210, 453 A.2d 1378 (1982).	Nov. 10, 1982
D.8	<i>Burch v. Nedpower Mt. Storm, LLC</i> , 220 W. Va. 443, 647 S.E.2d 879 (2007)	June 8, 2007
D.9	<i>Wind Energy Siting Handbook</i> , American Wind Energy Association, available at http://www.awea.org/sitinghandbook/	Feb. 2008
E.1	Memorandum regarding Cascade Wind Project Update for March 2008, Adam Bless, Oregon Department of Energy	March 13, 2008
E.2	Map of approved and proposed wind projects in Klickitat county	Apr. 30, 2008
E.3	Windy Point II Wind Farm Project EOZ Application	May 23, 2008
E.4	Notice of Community Meeting, Windy Point II Windpower Project, Klickitat County	May 27, 2008
E.5	Determination of Significance and Request for Comments on Scope of EIS, Goodnoe II project, EOZ2008-05 and SEP2008-31, Klickitat County	July 14, 2008
F.1	Declaration of Chris Lloyd	Aug. 31, 2008
F.2	Declaration of Renee Tkach	Sep. 2, 2008
F.3	Declaration of Kevin Gorman	Sep. 2, 2008
F.4	Second Declaration of Chris Lloyd	Dec. 8, 2008
F.5	Second Declaration of Kevin Gorman	Dec. 8, 2008
F.6	Second Declaration of Renee Tkach	Dec. 8, 2008
F.7	Declaration of Mary Repar	Dec. 8, 2008
F.8	Declaration of Brett VandenHeuvel	Dec. 9, 2008
F.9	Declaration of Emily Platt	Dec. 9, 2008
G.1	Resume/CV of Dean Apostol	Aug. 2008
G.2	Resume/CV of Margo Blosser	Sep. 2008
G.3	Resume/CV of Carl Dugger	Sep. 2008
G.4	Resume/CV of K. Shawn Smallwood	Sep.

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H.1	BPA Transmission Lines by kV, Bonneville Power Administration, available at http://www.bpa.gov/corporate/pubs/EX_A_BPA_Service_Area.pdf	Apr. 17, 1998
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H.3	Gifford Pinchot National Forest Vicinity Map, Gifford Pinchot National Forest, USDA Forest Service, available at http://www.fs.fed.us/gpnf/04maps/documents/gpnf-forest-vicinity-map-20080730_11x17_000.pdf	July 30, 2008
H.4	Skamania County Ordinance 2008-01, available at http://www.skamaniacounty.org/Ordinances_2008/Ord%202008-01%20Moratorium%20Extension%20Unzoned%20Land.htm	Jan. 8, 2008
H.5	Comments on Skamania County Proposed Zoning Amendments, Nathan Baker, Friends of the Columbia Gorge	Oct. 22, 2008
H.6	Comments on Skamania County Proposed Title 21 Zoning Amendments, Richard F. Till, Friends of the Columbia Gorge	Oct. 22, 2008
H.7	MCEDD Rural Cluster Project: Renewable Energy Cluster, Mid-Columbia Economic Development District, available at http://www.oregonclusters.org/Docs/MCEDD%20Ren%20Energy%20cluster.doc	N/A
H.8	Minutes for the December 18, 2007 Meeting, Board of Skamania County Commissioners, available at http://www.skamaniacounty.org/Minutes_Files_2007/Minutes%2012-18-07.htm	Dec. 18, 2007
H.9	Skamania County Resolution 2007-59, available at http://www.skamaniacounty.org/Resolutions_2007/Res%20200759%20Renewable%20Energy.htm	Dec. 18, 2007
H.10	Annual Performance Report, July 1, 2007 to June 30, 2008, Mid-Columbia Economic Development District, available at http://www.mcedd.org/documents/FY2008MCEDDAnnualoReport.pdf	June 30, 2008
H.11	Minutes for the September 30, 2008 Meeting, Board of Skamania County Commissioners, available at http://www.skamaniacounty.org/Minutes_Files_2008/Minutes%2009-30-08.htm	Sep. 30, 2008
H.12	Skamania County Resolution 2008-51	Sep. 30, 2008
H.13	Skamania County Commission home page, available at http://www.skamaniacounty.org/commissioners1.htm	Jan. 5, 2009
H.14	Minutes for the week of December 23, 2008, Board of Skamania County Commissioners, available at http://www.skamaniacounty.org/Minutes_Files_2008/Minutes%2012-23-08.htm	Dec. 23, 2008



**SKAMANIA COUNTY
BOARD OF COMMISSIONERS**

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Stevenson, Washington 98648

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District 1

JIM RICHARDSON
District 2

JAMIE TOLFREE
District 3

March 12, 2009

Jason Spadaro
SDS Lumber Company
PO Box 266
Bingen, WA 98605

Dear Jason,

First the Board wishes to extend its appreciation of your company's commitment to economic development in Skamania County. SDS Lumber Company is recognized for its long history of economic contribution and corporate citizenship.

Skamania County has looked forward to reviewing a wind farm project application, as many of our neighboring counties within the gorge have. Our expectation has always been that an applicant would bring forward a well-planned and thoroughly documented wind power project for our consideration. Certainly a quality wind farm project would bring many tangible economic benefits to our county while adding renewable energy to the grid.

Recent events have convinced us that Skamania County will be unable to take on review of such a wind farm permit application any time soon. Clearly the administrative and legal burden that would surely ensue are currently beyond our capacity.

As you remain committed to developing the wind power generation potential of your properties within Skamania County, we agree and support your decision to submit an application to the State Energy Facility Site Evaluation Council (EFSEC). We are confident that EFSEC will conduct a full and rigorous review. You, as well as the public, can rest assured that Skamania County will conscientiously participate as a voting member of the Council in its review of your submittal.

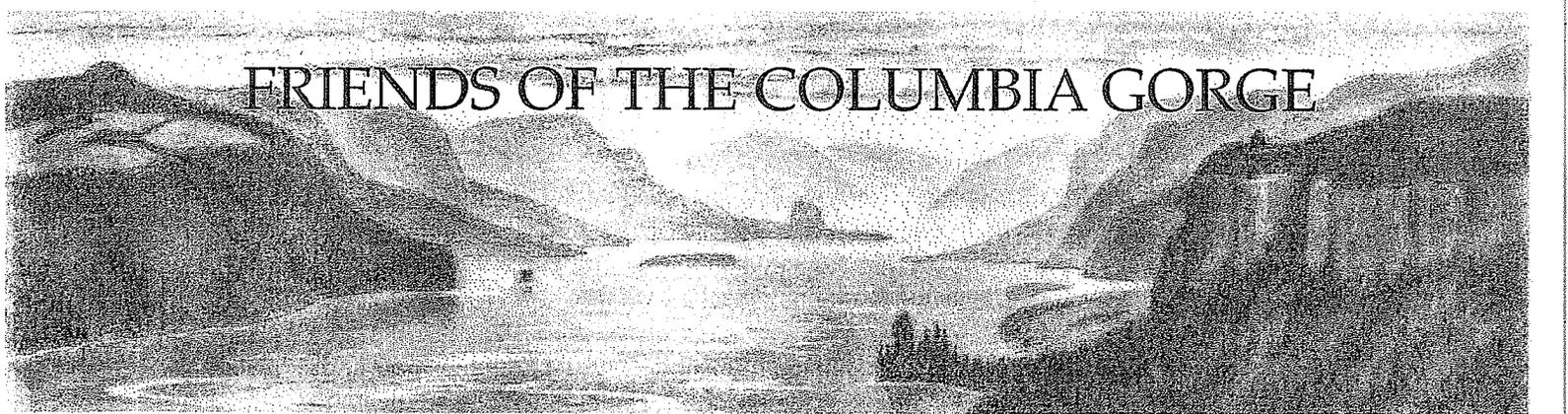
In these challenging economic times, government needs to be pragmatic in how it conducts its business. Given the complexities of wind power development here, state government is much better prepared than we are for providing your proposal the hearing it deserves.

Sincerely,

Jim Richardson, Chair

Jamie Tolfree

Paul Pearce



FRIENDS OF THE COLUMBIA GORGE

SUBMITTED VIA E-MAIL AND FIRST-CLASS MAIL

March 5, 2009

SEPA Center
c/o Responsible Official
P.O. Box 47015
Olympia, WA 98504-7015

Re: Washington DNR's SEPA MDNS regarding the proposed SDS Saddleback wind energy production facility (File No. 09-011302)

Dear Responsible Official:

Please accept the following comments of Friends of the Columbia Gorge to supplement our prior comments dated January 27, 2009 and February 10, 2009 in the above-referenced matter.

As Friends has previously noted, the site map prepared by SDS Lumber Co. shows that the project consists of approximately 82 turbines, 35 of which would be on DNR lands in Klickitat County, and the remainder on adjacent private lands in Skamania County.

As further evidence that SDS proposes a single project with 82 wind turbines in two counties, Friends submits the three enclosed newspaper articles. All three articles refer to the 82-turbine Saddleback proposal as a single project. SDS President Jason Spadaro was interviewed for all three articles. To our knowledge, SDS did not request any corrections to these articles or otherwise respond to them.

As explained in Friends' prior letters, SEPA prohibits the piecemeal review of the Saddleback project. Although the 82 turbines are proposed in two different counties, all the turbines must be reviewed together, along with all related actions such as the proposed leasing of DNR lands for wind energy production; the installation of wind measurement devices; and the construction of any new roads, substations, power lines, interconnection towers, and any other related development.

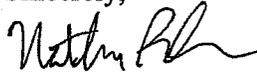
Also enclosed is the June 24, 2008 written testimony of Michael Canon, Klickitat County Economic Development Director, submitted to the Skamania County Planning Commission in a zoning matter. The testimony states that "Klickitat County is very much in support of the SDS wind energy project on Saddleback Mountain."

Klickitat County's unequivocal statement in support of the Saddleback proposal shows that the County has prejudged the merits of the proposal, and is indeed an advocate for the project. Moreover, the statement demonstrates a strong bias and conflict of interest on the part of the County.

To avoid any improprieties, Klickitat County should not review the Saddleback project, or any portion thereof. Friends again requests that the DNR ensure review of the full proposal by the Washington Energy Facility Siting and Evaluation Council.

Thank you for the opportunity to file additional comments on the proposed Saddleback wind energy project.

Sincerely,



Nathan Baker
Staff Attorney

Enclosures

Wind farm

Wind farm project may expand

Company wants to lease state trust land in the Columbia River Gorge

By Kathie Durbin

Columbian staff writer

A Bingen-based company that hopes to build a 70-megawatt wind farm on a backcountry ridge near Underwood has asked the state to explore the expansion of the project north onto 2,560 acres of state trust land.

The Saddleback Wind Project would rise on logged-over industrial lands behind Underwood Mountain, just outside the north boundary of the Columbia River Gorge National Scenic Area.

The original proposal by SDS Lumber Co. called for installing 42 wind turbines along a roughly north-south alignment on its land in eastern Skamania County to harness the gusts that blow through the Columbia River Gorge.

That proposal is on hold pending appeal of a zoning ordinance that would set standards for wind projects in all of Skamania County.

Last spring, the company approached the Washington Department of Natural Resources about leasing state trust land to the north so it could build a larger and more profitable project.

The DNR land the company wants to lease is in western Klickitat County, which already has a zoning ordinance that fast-tracks siting of wind farms and other energy projects.

SDS Lumber President Jason Spadaro said it just makes sense to expand north if the wind generation potential is there.

“The project that we have now is on the small end of wind projects,” he said. “Because of that, I don’t have a lot of flexibility. I need to maintain every potential turbine in order to keep the size of the project where it works. The more megawatts you put through, the more viable the project is.”

Under the proposed expansion, SDS would pay to build roads, collectors and other infrastructure necessary to provide access to the remote site and feed power generated by the wind turbines into the electrical grid.

“We would extend the road system we are already going to build,” Spadaro said. “There is a tremendous amount of synergy between the two properties.”

DNR officials said they would enter into a lease arrangement only if it yields revenue for the common school fund.

“Otherwise we wouldn’t do it,” said DNR regional manager Bill Boyum. “It has to be a good investment on the part of the state.”

The DNR has approved other leases for wind projects east of the Cascades, such as the Wildhorse Project east of Ellensburg, where 34 wind towers generate power on state trust land. “We turned \$500,000 last year” from that project, Boyum said. “That all goes into the common school fund.”

The DNR has received about 20 comments on an environmental assessment of the proposed lease. The deadline for comments to the agency’s Ellensburg office is Feb. 10.

Boyum said if the state does eventually agree to lease the land for wind turbines, that phase of the project would be subject to a full environmental review by Klickitat County.

But critics say the DNR is trying to fast-track the project by adopting a "piecemeal" environmental review process instead of assessing the impact of the entire project upfront. A full assessment is needed, they say, to assure that environmental concerns are known and incorporated into the layout, construction and operation of the project.

"The state is forfeiting its right and its authority to enforce state regulations by punting environmental review to Klickitat County," said Michael Lang, conservation director at Friends of the Columbia Gorge. The organization has taken no official position on the Saddleback project, but is appealing Skamania County's energy facility zoning ordinance.

Owl habitat

One potential sticking point is that the state trust land lies in an area of scattered old growth and second growth forest used by the threatened northern spotted owl. The DNR is required to manage the area as a "spotted owl emphasis area" under its federally approved habitat conservation plan.

The DNR would require SDS to consult with federal and state wildlife officials before installing wind-monitoring towers to determine whether they could harm birds or wildlife. It would require a sign-off from the U.S. Fish and Wildlife Service that the project does not have a negative impact on owls or other imperiled species.

Spadaro said it remains to be seen whether the state trust land will prove to be a viable source of wind power. "We may start reviewing this and find out that there are wildlife issues or other issues that make it impossible to go ahead."

However, if everything goes smoothly, as many as 25 or 30 giant wind turbines could be built on DNR land, he said.

With a new administration in Washington, D.C., promoting green energy, and new state renewable energy requirements looming, the time is right to move ahead on viable wind energy projects, Spadaro said.

A voter-approved federal initiative requires electric utilities to get 15 percent of their energy from renewable sources by 2020. Oregon and Washington have adopted even more ambitious goals.

"President Obama has spoken about his intent to increase renewable energy," Spadaro said. "There are now discussions about a national renewable energy standard as well. The demand is there. So is the ability to finance and develop the project. There are bank issues that make it more of a challenge, but that is not a long-term issue."

Comments on the DNR's environmental assessment of the proposed land lease should be submitted by Feb. 10 via e-mail to sepacenter@dnr.wa.gov, or by mail to P.O. Box 47015, Olympia, WA, 98504-7015.

Kathie Durbin: 360-735-4523 or kathie.durbin@columbian.com.

<http://www.columbian.com/article/20090205/NEWS02/702059937>

16 bills seek to amend alternative-energy initiative approved by voters

Wednesday, February 4, 2009

**BY KATHIE DURBIN
COLUMBIAN STAFF WRITER**

Renewable energy has muscled its way onto the 2009 Legislature's agenda.

As of Wednesday, lawmakers had introduced 16 bills to amend Initiative 937, the voter-approved 2006 measure that requires utilities to ramp up their purchase of solar, wind and geothermal energy beginning in 2012.

The reason for the intense interest: This is the first session since its passage that the law can be amended by a simple majority vote.

Under the Energy Independence Act, every Washington electric utility serving at least 25,000 customers must use renewable energy to meet at least 3 percent of its energy load by 2012, at least 9 percent by 2016, and at least 15 percent by 2020.

The law defines "eligible renewable resources" as wind, solar, geothermal, landfill and sewage gases, wave and tidal power, and certain kinds of biomass and biodiesel fuels. The law also requires utilities to meet specific energy conservation targets beginning in 2010.

Clark Public Utilities weighed in at a Senate committee hearing Wednesday in favor of language in a bill sponsored by Sen. Chris Marr, D-Spokane. Senate Bill 5840 would allow utilities to count conservation efforts toward meeting their renewable energy targets before they are forced to turn to the purchase of renewable energy or energy credits. A House bill introduced by Rep. Jaime Herrera, R-Ridgefield, would accomplish the same thing.

"We are advocating that we should first use conservation and then go to additional generation," utility spokesman Dean Sutherland said. As it is now written, he said, "The initiative pushes you toward generation."

The change could save Clark ratepayers \$59 million by 2028, Sutherland said.

The utility also favors a change in the Senate bill that would permit utilities to buy renewable power from throughout the Western United States and Canada, instead of limiting their purchases to the Pacific Northwest.

That would make it possible to buy reliable solar energy from California and to purchase abundant wind energy from Montana in the winter, when it's scarce in the Northwest, Sutherland said.

Those changes are modest compared to others.

Some bills would let utilities count hydroelectric power and the burning of construction debris, food waste and wood waste products toward meeting their goals.

Some would push back the retroactive date for counting renewable energy purchases from 1999 to 1995.

A bill introduced by Sen. Jim Honeyford, R-Sunnyside, and co-sponsored by six other Republicans, would count all hydroelectric generation in the Pacific Northwest as a renewable energy resource that utilities could count toward meeting their goal.

On average, hydro makes up 50 percent of the Northwest's energy generating capacity.

"The cumulative effect of all the weakening amendments would be that the 2020 standard has already been met and thus nothing needs to be done," said Marc Krasnowsky, communications director for the Northwest Energy Coalition.

"We're talking about building our energy future," Krasnowsky said. "Making the hydro system more efficient is great, but we need to diversify and we need to build a market for new renewables. Hydro isn't going to get us there. The choice is between new non-hydro renewables and fossil fuels."

Initiative 937 is the cornerstone of the state's strategy to reduce greenhouse gas emissions, yet Oregon, California and Idaho all have adopted stricter renewable energy targets than Washington in the past three years, Krasnowsky said.

The renewable energy law has been a boon to the Port of Vancouver, one of the top importers of wind turbines on the West Coast. In a business roundtable with Gov. Chris Gregoire last week, Roby Roberts of Vesta America Wind Technology, which manufactures giant wind turbines, urged the governor to protect the law.

"We're in 63 countries, and this is one of the best ports in the world for us," Roberts said. "One of the things to keep the momentum going is to make sure I-937 is not changed."

The port is scheduled to announce a new cargo-handling agreement today.

In the Columbia River Gorge, SDS Lumber Co. President Jason Spadaro is counting on the law to create a strong demand for wind energy as he moves forward with proposal to develop a wind farm on the company's property and adjacent state trust land.

Kathie Durbin: 360-735-4523 or kathie.durbin@columbian.com.



The Enterprise

SDS eyes expanded wind power project *30 additional turbines possible on DNR land*

By Jesse Burkhardt

February 19, 2009

Although its original proposal to site 42 wind power turbines in eastern Skamania County remains on hold pending the outcome of an appeal, SDS Lumber Co. is considering expanding the scope of its renewable energy project.

SDS President Jason Spadaro said SDS may want to add more wind turbines on Whistling Ridge, north of the original proposal's boundaries. The expansion would be onto Washington Department of Natural Resources (DNR) property and within Klickitat County.

"We could site 30 additional turbines on DNR land if studies prove it's viable," Spadaro said.

Spadaro said no decisions have been made, and there has been no official filing.

"All we've done is apply for the right to study the property," Spadaro explained. "It is potentially a 'phase two' for wind power development, but we still have to do wildlife studies, a wind study, review the topography, and then apply to lease DNR property. We still would need a DNR review, environmental review, the EIS, public meetings -- the entire public process."

DNR is now determining whether to allow SDS to study the site for possible wind power development. A DNR comment period regarding the idea closed on Feb. 10, but Spadaro said he had no idea how long the DNR decision process would take.

"DNR is considering leasing four Common School Trust parcels totaling approximately 2,560 acres for wind power development in western Klickitat County," read an excerpt from a Jan. 12 DNR document regarding the inquiry from SDS. "It is possible that these parcels may be incorporated into a larger surrounding wind power project."

"We just want to study it, and it's smart for DNR to allow it," Spadaro said. "This would diversify the revenue source for schools, diversify the tax base, and diversify energy sources."

According to Spadaro, the Whistling Ridge site is ideal for wind power development. He explained that Underwood Mountain works like a "wind dam," with the wind flowing like water around Underwood Mountain.

"It creates a funnel where the wind flows. that's why the site is so windy," Spadaro said. "The other reason why the site works so well is because there is a regional BPA transmission system coming through the area. We can connect right onto it."

Spadaro added that a larger project makes it more viable economically.

"It also gives us more flexibility. If we have more flexibility, we can use that to optimize the site and minimize impacts," Spadaro said.

Some residents have been outspoken in opposition to the siting of wind power turbines in the area. One of those alarmed about the possibility is Ruth Dye of Underwood.

"This severely impacts my life, as I live just south of where this project is planned," said Dye.

Dye pointed out that there could be serious restrictions on public access if the DNR allows wind power development in the area.

"If this project goes forward, we will be locked out of access to this public land," Dye said. "If you hunt, fish, ride a mountain bike, ride a horse, or just enjoy a walk in the woods, sorry, but you will not be allowed to use this area any more."

Dye also expressed concern about impacts on water quality.

"There are three streams in the proposed wind farm area," Dye explained. "These feed the White Salmon, Little White Salmon, and eventually the Columbia River. This watershed will be disturbed. Chemicals to control noxious weeds may be used. If you kayak, windsurf, kiteboard, fish, swim, or use downstream water, you might want to think about the impact of this wind farm on you."

According to Dye, the area in question also has been designated by DNR as a "Northern Spotted Owl Conservation Area," and pointed out that the proposed wind farm could harm owl habitat and other wildlife as well.

"The area has been determined to be a conservation area for the spotted owl, but how will they make good on the losses to the owl or the other species in this area?" Dye questioned.

Spadaro said he thought it was unfortunate that even at this informational-gathering stage, opponents have been attacking the concept.

"There are certain people on almost every project who say they are for renewable, green power, but then come out and say, 'I like it, except anywhere near me,'" Spadaro said.

Spadaro debunked claims that the wind turbines would be within the White Salmon watershed.

"It's not even close to Buck Creek," he said.

The move to develop energy sources is part of a long-range strategy by SDS as it moves to diversify beyond being primarily a wood products company.

"This is another revenue source," Spadaro said. "No one knows when the demand for housing will improve, but there is always growing demand for energy. This helps us diversify."

Spadaro pointed out that the state of Washington has mandated that at least 15 percent of the energy used in the state must come from renewable sources by 2020.

"If we're going to meet renewable energy requirements, that energy is not all going to come from eastern Washington," Spadaro commented. "And the federal economic stimulus plan is based in large part on developing new renewable energy sources. That's a big deal. That demand has to be met somewhere."

Spadaro also sounded a geo-political warning about the consequences of failure to develop innovative sources of energy.

"We can either participate in it," he said, "or forget about clean energy and about independence from foreign oil."

Michael Cavan, Economic Development Dept, Klickitat
County, WA

(251)

Notes for statement in support of wind energy development (SDS Saddleback Mountain Project):

- The national energy crisis is right now and it is real – we all feel it in our budgets with every tank full;
- Klickitat County is very much in support of the SDS wind energy project on Saddleback Mountain.
- Development of wind energy is an important part of our economic development strategy as it provides meaningful long term tax revenue, creates living wage jobs and directly benefits the citizens of our rural communities.

Our County's experience of several years with development of wind energy is positive as a means of utilizing a naturally existing (in great abundance) resource, the wind.

We are working on a regional basis with Skamania, Wasco, Hood River and Sherman Counties to promote the development of all types of renewable energy (wind, solar, geo-thermal and bio-mass) –

Your County, like Klickitat, is part of the Columbia Gorge Bi-State Renewable Energy Zone (CG BREZ) formed by the Mid Columbia Economic Development District.

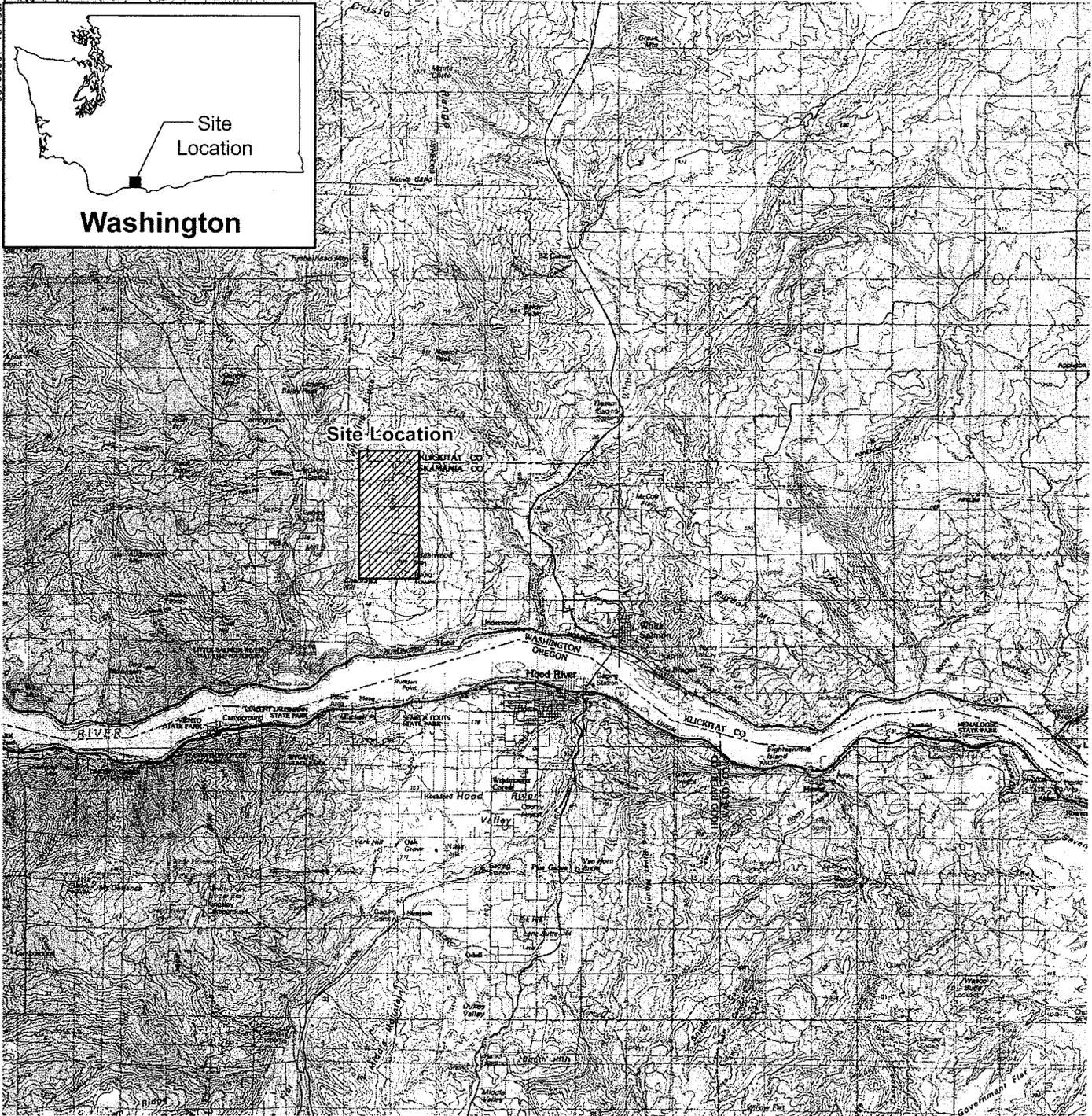
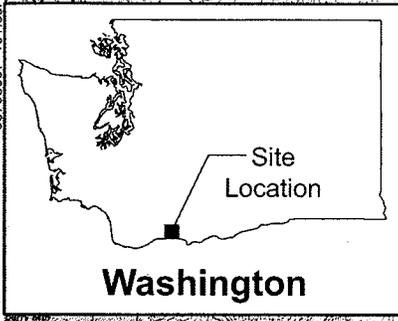
- Tax revenue from KC wind farms are providing substantially increased tax income to junior taxing districts (schools and fire districts);
- Wind is green power at its best. It has one of the highest energy payback ratios of any power technology.
- Our experience with the wind farms in KC is that they are fully environmentally friendly; noise is almost non existent; no human or animals have had health issues from them. Found no information on this type of health claim on any professional website.
- Wind energy is providing jobs in our region – good living wage jobs and these jobs will continue to increase. Those jobs are providing futures for our young people and providing them the possibility to not only grow up in the Gorge but to continue to live their lives out in the Gorge because they can afford to stay here.
- Skamania schools are facing very hard times as I understand it. They have already lived through very difficult economic times that just seem to continue to worsen. Wind energy in Skamania County would be able to provide tax revenue to your junior taxing districts (your schools in particular) and provide meaningful employment opportunities in your county.
- I have provided copies of fact sheets from the American Wind Energy Association that will hopefully shed light on the many very positive aspects and opportunities of wind energy development.
- You are invited to come to Bickleton and meet some of the local land owners that have wind towers on their land, and their neighbors – come hear and see for yourself. Thank you.

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SKAMANIA COUNTY

JUN 24 2008

DEPT OF PLANNING AND
COMMUNITY DEVELOPMENT

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Source: USGS quad map, Hood River, Oregon-Washington, dated 1982.



Approximate Scale in Miles

Job No. 33758687

Figure 2.1-1
**Location of Proposed
 Whistling Ridge Energy Project**



Whistling Ridge Energy Project
 Skamania County, Washington

Mary J. Repar
[REDACTED]
Stevenson, WA 98648
Tel: 509.427.[REDACTED]

05 May 2009

Energy Facility Site Evaluation Council
Allen J. Fiksdal,
EFSEC Manager
905 Plum Street SE
P.O. Box 43172
Olympia, Washington 98504-3172
efsec@cted.wa.gov
Tel: 360.956.2121

Re: Scoping for the Whistling Ridge Energy Project (previously known as Saddleback), Application No. 2009-01; SDS Lumber, proponent. SEPA and NEPA reviews required.

Dear EFSEC Members,

Briefly, cumulative impacts and effects, cumulative impacts and effects, cumulative impacts and effects are what will determine the efficacy of the proposed wind farm project. I do not wish to see long-term environmental degradation in return for 20 – 30 years of short-term energy production. We must use the Precautionary Principle and first, do no harm. Better to be safe now than sorry later. To that end, a thorough and complete Environmental Impact Statement (EIS) should be done on the entire project geographical area so that we all can see and analyze the data and make good, sound decisions.

The Project. Whistling Ridge Energy Project (WREP) appears to be an effort by SDS Lumber to circumvent the very public and very involved process of Skamania County's (SC) efforts to produce a court-proof zoning, SC Title 21, document that is both harmonious and consistent with the Comprehensive Plan that was passed in 2007. The County, thankfully and through an excess of trying, failed in their efforts to produce a document that would have led to the untrammled industrialization of Skamania County! The document they produced failed to include many of the very good and environmentally sound suggestions from many concerned citizens and agency officials about the direction of our County's development. Neither SDS or our public officials got what they wanted in the Zoning draft ordinance process nor in the following appeals of the ordinance. After an appeal before a Hearings Examiner¹, (**Attachment 1**), the zoning

¹ In the Matter of the Appeals of Friends of the Columbia Gorge, Save Our Scenic Area, Gifford Pinchot Task Force, and Columbia Riverkeeper, of a SEPA DNS, No. SEP-08-35, Findings Conclusions and Repar – EFSEC – SDS Whistling Ridge/
Saddleback Project Comments

draft ordinance was sent back to SC for an EIS, and our county has indefinitely put off doing an EIS, so now SDS has gone to this unelected commission (that does not answer to the voters and citizens of Skamania County) to try to get what they want, a project up on Saddleback Ridge and beyond, by trying to negate all the public input and appeals which cost a lot of time and energy from a lot of people! The Hearings Examiner was very clear in her 37-page assessment as to what SC needed to do to meet its responsibilities. **I ask that the entire document and its findings be incorporated into my comments.** SC chooses to ignore the Hearings Examiner outcomes and urges, in a letter of support dated March 12, 2009 (**Attachment 2**) the applicant, SDS Lumber, to go before EFSEC, because “Clearly, the administrative and legal burden that would surely ensue are currently beyond our capacity... You, and the public, can rest assured that Skamania County will conscientiously participate as a voting member of the Council in its review of your submittal.” Since the County has appointed Judy Wilson, a ex-Thurston County Republican commissioner (and I’m sure the fact that two of our commissioners are also Republicans had no bearing on their choice...), and non-resident of our county, and someone who, I presume, is probably not very familiar with our county’s many environmental issues and sensitive areas and species, and habitats, etc., and I’m going to presume that our County commissioners are more concerned about getting EFSEC approval--thus a former politician was selected to represent our citizens--rather than including County citizens in a newly activated Zoning process, as they should be doing! I cannot believe that they couldn’t find anyone in the county to represent all our interests on the commission! Perhaps I do Ms. Wilson an injustice but I find it extremely ironic that in a county with such high public participation in land planning issues, our county commissioners could not find one public soul to represent the best interests of the citizens and environs of Skamania County!!

This proposed project and its geographical adjunct in Klickitat would impact our environment and ecosystem(s), our public health and welfare, and wildlife and habitats, etc., in many as yet unexplained and perhaps negative ways and it should be deeply and scientifically studied before proceeding any further. It is deeply troubling that most wind farm projects do not adequately address the issues of the effects of turbines on public health and welfare. That should be a major concern of the EIS and the expert testimony that was included in the Hearings Examiner’s final determination and the testimony itself, as heard on the two CDs (**Attachment 3**), should be included in the EIS.

This project area, which was previously called Saddleback, by SDS Lumber, already has a SEPA file 09-011302--*Saddleback Wind Power Project; DNR’s (lead agency) proposal to lease 4 Common School Trust parcels totaling approximately 2,560 acres for Wind Power development in Western Klickitat County. Located in Sections 29, 30, and 31, Township 04 North, Range 10 East, W.M., Klickitat County, and, in addendum: all of Section 32, Township 4 North, Range 10 East, W.M. Klickitat County, WA, containing 640 acres more or less,* and I would like this SEPA file to become part of the record and to be considered in your deliberations. All of my comments for the

Decision, Summary of Decision—the appeals of the October 8, 2008 Determination of Nonsignificance for the County’s proposed zoning test and map amendments are GRANTED.

previous proposal went to: WA Department of Natural Resources, SEPA Center, Natural Resources Building, 1111 Washington Street SE, P.O. Box 47015, Olympia, Washington 98504-7015; sepacenter@dnr.wa.gov. Although the applicant now states that it is calling the Skamania County portion of the project Whistling Ridge, it was not too long ago that it was calling the Klickitat portion of the project "Saddleback", which happens to be the Saddleback located in Skamania County! **Please let me know if I have to contact the DNR and ask that they submit the SEPA file 09-011302, preferably electronically, so that it can become part of the record.**

Since the two proposed projects are in the same geographic area, the SEPA and the NEPA should include the entire area and the **cumulative impacts**² of the entire

² <http://www.nature.nps.gov/protectingrestoring/DO12Site/tabs/tab8a2.htm>

Council on Environmental Quality (CEQ)

Cumulative Effects Analysis

From CEQ Regulations §1508.7 Cumulative Impact

"Cumulative impact" is the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Example: If the park proposes to expand a campground in grizzly bear habitat, other activities that have a combined impact on the grizzly bears must be included in the analysis. This would include other NPS road projects that would occur in grizzly bear habitat, as well as plans for future garbage disposal in the park's gateway communities and last year's Forest Service timber harvest. It doesn't matter who takes the actions, or whether they took place in the past, are taking place in the present, or will take place in the foreseeable future.

From DO-12, Conservation Planning and Environmental Impact Analysis

§4-5, G.6: "Cumulative impact information may be less exact than information on direct and indirect impacts of the alternatives, but a good faith effort to accurately and completely assess major sources of impact and their contribution to resources affected by the proposed action or alternatives should be part of any EIS or EA. For plans or other larger-scope federal actions, the analysis of cumulative effect may be a major focus of the NEPA document."

Cumulative Impacts = Additive and Interactive

Additive

These impacts accumulate in the same way as a "straw on a camel's back." Straws keep adding weight until, finally, the camel's back is broken. One impact, causing occurrence, such as a single gas well, may be of little significance. A hundred wells in the same area, however, may profoundly impact a given valued resource.

Interactive

These impacts accrue as a result of assorted similar or dissimilar actions being taken that tend to have similar impacts, relevant to the valued resource in question. Vegetation quality, diversity, density, and

Repar – EFSEC – SDS Whistling Ridge/
Saddleback Project Comments

project on the Gorge, on a regional basis, should be considered by EFSEC. ***“Cumulative impact” is the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.*** From DO-12, Conservation Planning and Environmental Impact Analysis, §4-5, G.6: “Cumulative impact information may be less exact than information on direct and indirect impacts of the alternatives, but a good faith effort to accurately and completely assess major sources of impact and their contribution to resources affected by the proposed action or alternatives **should be part of any EIS or EA.** (my bold emphasis) For plans or other larger-scope federal actions, the analysis of cumulative effect may be a major focus of the NEPA document.” Cumulative Impacts are both Additive and Interactive. The Council on Environmental Quality also defines additive and interactive cumulative impacts: ***“Additive. These impacts accumulate in the same way as a “straw on a camel's back.” Straws keep adding weight until, finally, the camel's back is broken. One impact, causing occurrence, such as a single gas well, may be of little significance. A hundred wells [my insert: or 70 wind turbines] in the same area, however, may profoundly impact a given valued resource. Interactive. These impacts accrue as a result of assorted similar or dissimilar actions being taken that tend to have similar impacts, relevant to the valued resource in question. Vegetation quality, diversity, density, and general health, for instance, could be affected by several actions. These actions could include unmitigated over-grazing by wildlife/ wild horses/ burros, cattle, plus motorcycle/off-road vehicle use, industrial development, and roads.”***

general health, for instance, could be affected by several actions. These actions could include unmitigated over-grazing by wildlife/ wild horses/ burros, cattle, plus motorcycle/off-road vehicle use, industrial development, and roads.

How do I start?

1. Consider what the geographic area should be for your affected resource. This area will differ from resource to resource. You might use regional watersheds, for example.
2. Assemble a list of past, present, and reasonably foreseeable future actions called the “cumulative scenario.” Be sure to include actions that might be taken by other agencies or individuals that could also affect park resources.
3. Work through the cumulative scenario and determine which actions are relevant to your impact topic. Focus on impacts that are clear contributors.
4. Develop the cumulative impact analysis. You may want to think of cumulative impacts as $x + y = z$ (with x being the impacts you have described as a result of actions being proposed under each alternative; y being past, present, and reasonably foreseeable future actions; and z being the cumulative impacts).
5. Determine the context and intensity or magnitude of the actions. Intensity refers to the severity of the effect. Use the same terms that you used for your impact analysis - negligible, minor, moderate, and major.
6. Describe the total impact for your topic. You should also highlight the relevant contributions of the NPS action proposed for the project or plan (compare x to z).
7. Where possible, use quantifiable data. Realize that your analysis may be mainly qualitative.

Not only should EFSEC consider the cumulative impacts of SDS's wind turbine proposals on the environment, it also behooves the EFSEC to study the cumulative and additive impacts of ALL the wind turbines in the 5-county Columbia Gorge Bi-State Renewal Energy Zone (CGBREZ), an entity that is in full operational swing, lobbying for more development, especially for wind farms, in the NSA. It is well known that the Columbia River Gorge National Scenic Area (CRGNSA) and its surroundings are used by many migratory species and other wildlife and the cumulative effects of wind turbine farms on their habitats, their migration patterns, life cycles, breeding, etc., **have not been adequately addressed by a region-wide study. A region-wide resource study and region-wide cumulative impacts study should be mandatory before more wind turbine projects proceed.** Wind farms are industrial development and their impacts should be studied. The Precautionary Principle should be applied to wind farms—better to be safe than sorry. Better we find out the impacts today than 20 years down the road when it will cost us more in money and public health and welfare.

The State Environmental Policy Act **requires government agencies to consider the potential environmental consequences of their actions and incorporate environmental values into their decision-making processes.** I am assuming the EFSEC falls under the SEPA rules and that EFSEC will diligently involve the public in this process.

Regarding cumulative impacts and NEPA and SEPA review, I believe cumulative effects analyses must also be done. Analysis methods are listed and defined in "Considering Cumulative Effects: Under the National Environmental Policy Act, Summaries of Cumulative Effect Analysis Methods," p. A-1 and I include a copy of the book, **Attachment 4**, for your reading pleasure. I have found it an excellent resource and the CEQ will be very happy, upon request, to send EFSEC all the copies that you all will need.

The state of WA has adopted CEQ's definition of cumulative effects.

There is also a *de minimis* requirement for the part of SDS's proposal in Klickitat County, **Attachment 5**. The *de minimis* level cannot be increased and since an EIS has not been done for the Klickitat portion of this geographic project, we don't know whether another part of this project would increase *de minimis* take. According to the Department of Natural Resources's own Habitat Conservation Plan, under **Non-Timber Activities**: The trust lands HCP describes levels or amounts of non-timber activities that existed on lands managed under the HCP during the 1996 base year. At these 1996 levels, no or *de minimis* (insignificant) take (impacts to threatened or endangered species) occurred. **Any new or renewed contracts, permits, or leases for such activities cannot increase the level of take beyond this *de minimis* level.** We must monitor the level of such activities and report them to the Federal Services annually. However, some of the baseline non-timber numbers cited in the HCP are incorrect, as they included activities on all state lands, rather than just areas covered by the HCP. To derive accurate 1996 baseline figures, the numbers reported in the HCP were revised to include only activities that occurred on HCP lands. This revision was made and the corrected numbers were reported

in our first HCP Annual Report (DNR 1998). (p.33, Habitat Conservation Plan for State Trust Lands, 2008 Annual Report, *November 2008*) This bears repeating: **Any new or renewed contracts, permits, or leases for such activities cannot increase the level of take beyond this *de minimis* level.** Since EFSEC would be, in essence, permitting a contiguous project, I think this *de minimis* requirement would cover the entire project area, even if there are “phases” to the project. Mr. Spadaro has tried to, disingenuously, delink the two projects by calling SDS’s plan to request a DNR lands lease for a wind farm proposal in Klickitat as Phase II but this assertion cannot be allowed to stand since it is patently not true that the two projects are not connected.

Consultation. Agency consultations are critical and crucial to all environmental and cumulative impacts analyses. I want to see a list of all the pertinent agencies that will be consulted and I want to see a very meaningful consultation process undertaken. At the least, the U.S. Fish and Wildlife Service, NOAA Fisheries Service, WA Dept. of Fish and Wildlife, U.S. Forest Service, the Gorge Commission, etc. The U.S. Fish and Wildlife Service has jurisdiction over Federally listed species—some of those species may be included on the WA State listed species listing.

DNR, when it issued the MDNS for the lease of the trust lands for SDS’s wind farm in Klickitat, failed to take into consideration the impacts of all the cumulative effects of other proposed and existing wind farms upon the resources on State lands and also upon the natural resources in the Columbia River Gorge National Scenic Area. Although DNR is a state agency, it, and other agencies, cannot ignore the impacts of these types of proposals on the region. **A regional analysis should be done to understand cumulative effects on a regional basis.**

There will be negative impacts to threatened and endangered species—but since there is no EIS, yet, we don’t know what these impacts would be. I agree fully with the following input from WA Fish and Wildlife, into the SEPA done for the Klickitat DNR lands that SDS wanted to lease for their wind farm: “...We would like to point out that in *Description of mitigation, #2*, that the USFWS has jurisdiction over federally listed species, which may or may not include Washington State listed species. Therefore, consultation with both agencies will likely be required. Additionally, **it is unlikely that the USFWS will provide DNR written approval that the project will not negatively impact threatened and endangered species.** [my bold emphasis] Instead, they may issue an incidental take statement under Section 7 of the Endangered Species Act or, in consultation with DNR and others, develop an amendment to the existing HCP.” In the HCP, Chap. 4, H. FOREST LAND MANAGEMENT ACTIVITIES, section, under activities common to the Planning Units, **there is nothing, as far as I was able to find, about building wind turbine farms in the middle of the woods!** [I would hope to see studies on fire danger and who is going to pay for fire protection in that area since we have, for the most part, in SC, only volunteer fire departments!]

My other comments follow:

1. The site map, **Attachment 5**, shows a portion of the project in Klickitat County. SDS may keep saying that this project is just in Skamania but their true intentions keep popping up. Mr. Spadaro has numerous times mentioned this expansion in various newspaper articles (3), **Attachment 6**. This project area should include all the wind turbines that SDS wants to put up in the area. Cumulative impacts will have to be done on the entire project any way so we may as well call this quacker the duck it is!

2. Even though SDS maintains that the Skamania project is separate from the Klickitat project, I do not agree. This is one project, for all intents and purposes. Four of the parcels that SDS wants to lease from DNR lie within the Klickitat County Energy Overlay Zone (EOZ), for which the FEIS was completed in September 2004. Klickitat county has shown itself to be welcoming to wind farms. However, Klickitat *has not* shown us a cumulative impacts analysis of all the wind farms on its turf. The FEIS was done over 5 years ago and to rely on this possibly and probably (legally) outdated information would be irresponsible. A lot has changed in regard to the cumulative effects of multiple wind turbine projects in any one area. We now have more information on the health effects of wind turbines on human health, and the effects of wind farms on habitat fragmentation, waterways, wildlife, and other environmental effects that were not considered in 2004. **EFSEC must do a new EIS for the entire project area in Skamania and Klickitat counties in order to determine cumulative impacts and effects, both short term and long term.**

3. There is no best available science (BAS) and impacts studies on threatened and/or endangered species, and impacts on habitats, for this type of turbine project. Also, it is highly improbable that SDS would get a written agreement from USFWS that their wind turbine proposal won't have negative environmental and cumulative impacts on threatened and/or endangered species and habitats. The EIS should include all best available science and delineate any BAS limitations that need to be addressed.

4. We live in a tectonically active area, especially in Skamania County. We don't know if there is potential for landslides or other types of geologic upheaval caused by wind farms and their attendant infrastructures, i.e., impermeable cement/gravel pads and impermeable roads that have to be maintained year-around for access. The WA DNR does have an Earth Sciences Program which should be used to evaluate this entire project: **"Earth Sciences Program:** This program was established to provide centralized technical and scientific support for state trust land management activities in the fields of geology, geomorphology, and hydrology. Program staff work with foresters and engineers to assess the potential effects of management activities on soil erosion and hydrology and to develop measures to mitigate adverse impacts. Their work includes conducting landslide risk assessments for individual timber sales, developing landscape-scale landslide hazard zonation maps, locating suitable rock sources for constructing and maintaining forest roads, and carrying out earth sciences-related research and monitoring. Currently, the Earth Sciences Program has four Licensed Engineering Geologists on staff, one Licensed Geologist, and two additional geologists working towards licensure. Earth Sciences Program staff provide technical and scientific support for the timber sales program by conducting landslide risk assessments for individual timber sales. While most

assessments are performed remotely using aerial photographs, geologic maps, and Digital Elevation Model- or LiDAR-derived topographic information, many are field-based evaluations where geologists and hydrologists work directly with foresters and engineers to assess landslide potential and design mitigation measures to reduce risk.” (p.90, Habitat Conservation Plan for State Trust Lands, 2008 Annual Report, *November 2008*) Where are the zonation maps, the earth sciences research, geologic maps, aerial photos, etc. that should be used to define landslide potential? It can be substantiated by science and clearly shown that clear cuts contribute to land erosion and landslides, so if a wind farm needs lots of roads, as Mr. Spadaro has stated, he will “...build roads, collectors and other infrastructure necessary to provide access to the remote site,” then it stands to reason that there will be erosion impacts and potential for landslides. **An EIS is mandated for this entire project area.**

5. Waterways and watersheds. A thorough study of impacts on waterways and watersheds should be done for the EIS. At this point we can't know if fish bearing streams would be or wouldn't be affected by construction because there is no EIS. LiDAR work should be done to determine the location and extent of stream networks in the affected, remote areas. DNR's own Headwaters Stream Research modeling could be used here. See **“Headwaters Stream Research – The Development of a Model to Predict the Location and Extent of the Headwater Stream Network for Western Washington;** In support of implementation efforts for the pending state trust lands headwaters conservation strategy, work is underway to develop tools to accurately predict and map the location and extent of headwater stream networks in western Washington. A binary logistic regression equation is being developed to estimate the probability of the presence of a headwater stream channel at any given location within western Washington. The equation will relate field-verified headwater stream termini to selected channel, landscape, or basin characteristics derived from LiDAR (Light Detection and Ranging) elevation models. LiDAR is a remote-sensing technique that uses an aircraft-mounted scanning laser to precisely map ground features. High-resolution topographic data can be produced with a vertical accuracy of 15 to 100 centimeters. A number of products can be created from such a high-resolution data set. For this project, a model of the stream network was created using algorithms to predict both the direction and accumulation of water as it flows across the landscape. The extent and configuration of the modeled stream network was edited to match ground surveys of channel and stream termini locations, conducted during a related study completed in 2006 (Figure 7.5). Approximately 3,000 acres of terrain were surveyed, including more than 300 headwater stream channels and termini. This ground-verified stream network will serve as the basis for a logistic regression analysis to construct a model of the headwater stream network for the remainder of state lands with LiDAR coverage.” DNR needs to do a better job of identifying waters in these areas. They could be wrong about how many streams there really are in the woods. For example in DNR's own Habitat Conservation Plan for State Trust Lands 2008 Annual Report, November 2008, Fig. 7.5, p.79, it states: **Figure 7.5. Modeling efforts offer an increase in our understanding of the extent and location of stream networks.** The above graphic compares currently mapped headwater streams (dashed white lines) to a ground-verified LiDAR-derived model (solid yellow lines). Headwater streams are often under-represented or incorrectly located on existing maps. **“Headwater streams are often under-represented or incorrectly located on existing maps.”** (Fig. 7.5, p. 79, *Habitat Conservation Plan for*

State Trust Lands, 2008 Annual Report, November 2008) More research needs to be done on what waterways actually exist in the project area(s) and what impacts wind farms would have on these waterways. An EIS is mandated.

Secondly, what impacts would all these roads, turbine pads, sub-stations, etc., and other infrastructure (and impermeable surfaces) have on the recharging effect? Would they affect water flows? Are there basalt aquifers in this area? Do we know the extent of the watersheds? What the recharge rate is? An EIS should give us more data.

6. Listed plants. There are listed plants in these sensitive areas where SDS is proposing to put wind turbines but we don't know their extent or the effects of wind farms on their habitat and the plants themselves—unless an EIS is done. The HCP should be consulted, **Chap. 3 101 F. LISTED AND CANDIDATE PLANTS, Non-vascular Plants and Fungi, Vascular Plant Taxa of Concern: Federally Listed and Proposed Vascular Plant Species, Federal Candidate and Species of Concern.**

7. This project sets a precedent in the State for placing turbines in a SOSEA (Spotted Owl Special Emphasis Area) and is near the White Salmon Water source of Buck Creek and may affect recreation opportunities on state lands. There are spotted owl, bat, and bird issues—habitat fragmentation, disturbance by wind turbines, the killing of these avians by turbine blades, etc. This is a huge issue and a very complex one. The HCP's Chap. 4, A. MINIMIZATION AND MITIGATION FOR THE NORTHERN SPOTTED OWL IN THE FIVE WEST-SIDE AND ALL EAST-SIDE PLANNING UNITS, a 230-page document should be incorporated into the EIS.

8. Fish issues. From the HCP: “Chap. 3, **D. Salmonids and the Riparian Ecosystem: Introduction**, Salmon are one of the most important natural resources for the economy of the state of Washington. The resource is exploited by three main fishing groups: nontreaty commercial, treaty (Indian) commercial, and recreational fishers. From 1981 to 1990, the total marine and freshwater salmon catch for Washington averaged 7.2 million fish per year (Palmisano et al. 1993). According to historical records, the peak harvests between 1961 and 1979 were 57 percent lower than those between 1864 and 1922 (The Wilderness Society 1993). This large reduction in the productivity of the Pacific Northwest salmon fishery has been attributed to many factors, including large scale water projects (dams), poor fisheries management (over-fishing and hatchery practices), urbanization, agriculture, and detrimental forest practices (Palmisano et al. 1993; Nehlsen et al. 1991). As a consequence, some stocks east of the area covered by the HCP have been listed by the federal government as threatened, and several stocks in the area covered by the HCP are candidates for federal listing. I think that putting wind farms in forest is a detrimental forest practice and should not be allowed—and an EIS would help us to determine if my sentiments are factual or not. Cumulative impacts must be studied to see how much wind farms in forests and other places affect our waters and the wildlife.

9. Other species would also be impacted by wind farms. **Chap. 3, E. OTHER SPECIES OF CONCERN IN THE AREA COVERED BY THE HCP, Federal Candidate Species, Federal Species of Concern, State-listed Species, State Candidate**

Species, and Other Sensitive Species list these species. Table 111.14 lists : Other species of concern by federal and state status and their potential occurrences in the HCP planning units lists **Townsend's Big-eared Bat:** "The Townsend's big-eared bat (*Plecotus townsendii townsendii*) is a federal species of concern and a candidate for state listing in Washington (WDW 1993a). In the winter of 1989-1990, 534 hibernating Townsend's big-eared bats were documented in Washington, in Yakima, **Skamania, Klickitat,** and Whatcom counties, as well as in several other counties on the east side of the Cascades (Perkins 1990)."

10. Transportation. I will plagiarize the facts from the Friends of the Gorge SEPA input, with which I wholeheartedly agree: "Industrial wind energy facilities require the permanent clearing of substantial areas of land for road construction, turbine installation, and turbine operation. For example, facilities in forested areas must clear 4 to 20 acres for effective turbine operation. Such impacts would permanently remove forest land from forestry uses. This type of forest land conversion would be inconsistent with current land uses." Also, the maintenance of roads is a year-round activity which contributes to compaction, run-off, and erosion, among other bad effects. An EIS must be done to quantify the cumulative impacts of these effects.

Finally, although I have not addressed the BPA portion of this project directly, I do believe that the EIS should examine the impacts of more transmission lines, more electricity traveling along transmission lines located in forests, the potential of fire hazard and the adequacy of fire control, the cumulative effects of transmission lines on the environment and on wildlife, the effects of new construction on habitat fragmentation, effects of construction on watersheds and waterways, etc.

I believe that wind farms would **have adverse impacts on the environment and the ecosystems and human beings in the proposed and surrounding project areas,** and there would be cumulative effects and impacts that are yet unknown and uncounted—and I believe in direct violation of the SEPA and NEPA regulations. However, until studies and analyses are done, none of us can be certain or know one way or another. An EIS should be done so that we can all know what the facts are and then can make environmentally sound decisions about putting wind farms in forests!

Thank you and I look forward to analyzing the reams of reports and data that are necessary to do a thorough Environmental Impact Statement for this project!

/e-signature/Mary J. Repar
05 May 2009

Bhavnani, Monica (CTED)

From: Susan Hartford [REDACTED]@embarqmail.com]
Sent: Tuesday, May 05, 2009 9:01 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Follow Up Flag: Follow up
Flag Status: Green

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal, ,

I am writing to comment on the proposed Whistling Ridge Energy Project in Skamania County, Washington. As a 29 year resident of Hood River, I have a great appreciation for this wonderful place, and wholeheartedly support the intent of the Columbia River Gorge National Scenic Area.

The proposed project would cause significant negative impacts to sensitive wildlife and plant habitat and would degrade the outstanding scenic beauty of the Columbia River Gorge National Scenic Area.

The Whistling Ridge proposal includes more than 80 wind turbines in two counties, yet the application filed with EFSEC discusses only 50 turbines in Skamania County. The EIS must review the cumulative environmental impacts of all portions of the project, including both the Skamania Co. and Klickitat Co. portions.

This proposal is likely to have different and greater wildlife impacts than any other wind energy facility proposed in the State of Washington, because this project is proposed at a heavily forested site. The project would permanently disturb large areas of forested habitat and result in direct and indirect impacts to multiple wildlife species through habitat loss and displacement, direct collisions with turbine blades, and other factors. The potentially affected species include northern spotted owl, western gray squirrel, northern goshawk and other raptors, several species of bats, multiple migratory bird species, mule deer, black-tailed deer, and elk. Several of these species are listed as sensitive or threatened in Washington State.

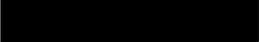
Locating 426-foot-tall turbines on the ridgeline of the Columbia River Gorge would also degrade the scenic values of the Gorge. The turbines would be highly visible from several designated key viewing areas within the National Scenic Area, including Interstate 84, the Historic Columbia River Highway, Cook-Underwood Road, and Panorama Point. The project would introduce highly visible industrial facilities into the natural, forested landscape, protruding above ridgelines and detracting from the natural scenic beauty of the Gorge. The wind towers would have daytime and nighttime warning lights, which would worsen the aggravate scenic impacts.

Finally, the proposed project would be located partially within the Columbia River Gorge National Scenic Area. Specifically, the applicant proposes to construct, expand, and improve more than two miles of roads within the National Scenic Area in order to haul industrial materials with gross vehicle weights of up to 53

tons. This proposal to construct and use Scenic Area lands for industrial purposes is prohibited by the National Scenic Area Act and Management Plan, and must be denied.

I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Susan Hartford


Hood River, OR 97031

Scoping Comment
#114**Bhavnani, Monica (CTED)**

From: Anita Gahimer Crow [REDACTED]@kineticsinc.com]
Sent: Wednesday, May 06, 2009 12:01 AM
To: CTED EFSEC
Cc: Peggy Bryan
Subject: Whistling Ridge Energy Project
Follow Up Flag: Follow up
Flag Status: Green

To The EFSEC and whom it may concern,

I would like to express my support for the Whistling Ridge Energy Project. In fact, I hope to have the opportunity to express my pride of living in a community willing to do their part in helping our country become self sustaining in its energy use by having a wind energy project in our backyard!

With a positive attitude this project can become an asset to every local resident and business! Even a marketing asset.

I live on the Cook-Underwood Road, on the west side of Windy Ridge. I will have a view of the wind turbines from my property, and may or may not hear some noise as I lie in bed at night with the windows open. Just as I put aside the wafting in sounds of the trains and barges from down on the Columbia River, the generators from our Federal Salmon Hatchery, and the occasional car with a loud engine, I will hear the turbines and sigh with content, being fortunate to live here in the mountains of the Columbia River Gorge hearing these faint sounds rather than screeching sirens of various sorts. In fact, this is exactly what the multitudes of wildlife do. They hear the jets, train whistles, etc., yet they are still here, like the pretty doe here just a short while ago munching on the lower half of my blueberry bush!

The environmental impact is small, acceptable, and not detrimental in the long-term.

Alternative energy projects like wind farms must be located not only where there is wind, but where there is a willing land owner to do a project, as a project would have difficulty financially if a developer of such an energy project had to purchase land for the effort. We are lucky to have a land owner willing to take on such an endeavor.

This wind energy project developer has an excellent reputation in this community as a supporter of community, our citizens, our events, fire departments, schools, etc., and goes out of their way to conduct their business in acceptable manners that are important to us all today. You can call them up and talk to the President!

Economic benefits abound and will be a big help to the local communities and counties.

Please allow the project to proceed and assist it to fruition.

Thank you,

Anita Gahimer Crow

[REDACTED]
Mill A, Washington 98605
509-538-[REDACTED] (day #)
[REDACTED]@kineticsinc.com

5/7/2009

Scoping Comment
#115**Bhavnani, Monica (CTED)**

From: [REDACTED]@comcast.net
Sent: Wednesday, May 06, 2009 9:11 AM
To: CTED EFSEC
Subject: Helicopter services
Follow Up Flag: Follow up
Flag Status: Green

Hello, i am with Applebee Aviation, i was reading about your Whistling Ridge Wind Power project. And all of your upcoming projects. Are you in need of any Helicopter services, equipment lifting and movement, personnel carrying? If we may be of any service, please let us know? Or, can you forward this to whom might be interested? Thank you! And have a great day! Rick May, at Applebee Aviation 503-349-[REDACTED]

5/7/2009

May 4, 2009

Allen J. Fiksdal, EFSEC Manager
Energy Facility Site Evaluation Council
PO Box 43172
905 Plum Street SE
Olympia, WA 98504-3172
Fax: (360) 956-2158

Jim Ziegler

Underwood WA 98651

Re: Whistling Ridge Energy Project

Dear Council Members:

I am writing in support of the Whistling Ridge Energy Project. Skamania County is 80-90% publicly owned. Many counties have far greater private ownership and therefore don't have the same difficulty in maintaining the revenues to run their counties. Unless we take advantage of opportunities like the Whistling Ridge Energy Project to grow the tax base, Skamania County will simply not have the means to support the level of government services demanded by citizens.

Schools are in particular need for better funding, and the Whistling Ridge Energy Project is in a perfect position to do it. School districts that have more businesses within their boundaries know it's much easier to pass much-needed levies because of their larger tax bases. The same revenues from a \$ 12.00 per \$1000.00 property evaluation in a lower property value county could be achieved with a \$2.00 per 1000.00 property evaluation in a more privately owned, business oriented county. That makes a big difference to taxpayers.

Skamania County will never be more privately owned, but it could go a long way towards being more business oriented to give some real relief to our county, our schools, and especially the property owners.

The objections to the Whistling Ridge Energy Project are just another example, among many in our county, of some people who want to have control over their neighbor's property, but don't want anyone telling them what to do with theirs. Someone in Underwood might see a strange-colored house in Hood River, and someone else may see portions of a wind turbine. Others may be in a line of sight of freeways, bridges, power lines, etc., all of which could be either inside or outside the National Scenic Area.

The fact is that the Scenic Area has a boundary for good reason. Residents within the area know that its regulations and restrictions are a real burden. Lets not give any credence to the idea that the rules within the boundary need to expand to anything that

RECEIVED

MAY 06 2009

**ENERGY FACILITY SITE
EVALUATION COUNCIL**

can be seen from within it. People can read whatever they want into the 'spirit' of the act, but the only fair way to interpret it is by the letter, and the letter says clear as day that the boundary is just that: a boundary.

Some have raised concerns about noise and vibrations from windmills. But the people I know who have seen wind farms up close say they did not experience any of these issues. Private homes experience vibrations and noise from heavy winds all the time in the gorge. Why aren't people worried about the health risks from those noises and vibrations?

Please move forward in a timely manner in approving the application for the Whistling Ridge Energy Project. In the real world, we need the alternative.

Sincerely,

A handwritten signature in cursive script that reads "Jim Ziegler". The signature is written in black ink and is positioned above the printed name.

Jim Ziegler

Scoping Comment
#117

Bhavnani, Monica (CTED)

From: Diana L Ross [REDACTED]@fs.fed.us]
Sent: Wednesday, May 06, 2009 1:21 PM
To: CTED EFSEC
Cc: LaSpina, Jim (CTED); Arens, Jill; litt@gorgecommission.org
Subject: Comment Letter for Whistling Ridge Energy Project
Importance: High
Follow Up Flag: Follow up
Flag Status: Green
Attachments: Comment Letter_Whistling Ridge_09.pdf

Enclosed please find the USDA, Forest Service, Columbia River Gorge National Scenic Area comments to the Whistling Ridge application:

Diana L. Ross
Landscape Architect/Land Use Coordinator
COLUMBIA RIVER GORGE NSA
[REDACTED]
Hood River, Oregon 97031

541.308.[REDACTED]



File Code: 2370

Date: May 6, 2009

Allen J. Fiksdal
EFSEC Manager
Energy Facility Site Evaluation Counsel
905 Plum Street SE
PO Box 43172
Olympia, WA 98504-3172

Dear Mr. Fiksdal:

It is my understanding that your office is accepting agency comment on the proposed Whistling Ridge Energy Project application for site certification. The Forest Service is submitting the following comment with respect to the Columbia River Gorge National Scenic Area--one of America's natural wonders known worldwide for its scenic beauty and the variety and quality of its recreational opportunities. Since the Scenic Area was created by Congress in 1986, new developments occur within a controlled framework that protects the resources that make the Scenic Area special. I understand that only a small portion of the proposal is located within the boundaries of the Scenic Area. This letter concerns impacts that will result from wind turbines visible from within the Scenic Area.

The purpose of this letter is to inform you of the risk of significant impacts to protected scenic resources if the proposed energy project is built as currently planned. This letter is not meant to imply that the project outside of the Scenic Area is regulated by the Scenic Area Act. In a letter dated May 8, 2008, the Columbia River Gorge Commission provided technical assistance in response to a request by the Oregon Department of Energy regarding a similar project in Oregon. In that letter, the Gorge Commission explained that the National Scenic Area Act specifically prohibits the implementation of a buffer around the boundaries of the Scenic Area. However, the letter also explains how Scenic Area resources would be affected by the project and how they could be protected. By requesting comments on the project, I assume that EFSEC would similarly benefit from scenic resources technical expertise in this matter.

Diana Ross, CRGNSA landscape architect, provided me the following analysis of the Aesthetics portion of the application starting on page 4.2-27. My comments are based on the findings of that portion of the application and the recommendations made by my staff:

1) **Key Viewing Areas (KVAs)**

As mentioned in the application, the effects to scenic resources in the Scenic Area are assessed by analyzing the effects of a project on lands visible from 26 selected public vantage points from which the public views the landscape. It was not foreseen at the time the Act was passed that any development outside of the Scenic Area would be seen from these viewpoints. However, it is clear from the application that several Scenic Area Viewsheds



(the land seen from these vantage points) will be affected.

9 of the 21 viewpoints analyzed are also Key Viewing areas (#6 & 9 were missing).

- 1-SR 141
- 4 & 22- Cook-Underwood Road
- 10-Panorama Point
- 11-I-84 Westbound
- 12-Koberg State Park (Columbia River)
- 13-I-84 Eastbound
- 14-Viento State Park (Columbia River)
- 19-Historic Columbia River Highway

2) Methodology and Summary of Scenic Impacts

There are many unknowns in the summary of methods on page 4.2-30-31 of the application. For example, the methods section did not disclose the heights used for the turbines or whether the software placed and sized the turbines or whether this was done in Photo Shop as an art project.

There are also several questions concerning the methods used to 1) choose viewpoints, 2) define visual quality and viewer sensitivity, and 3) represent and make conclusions about impact.

1) Choosing viewpoints in the Scenic Area should be based on Key Viewing Areas. Several of these were missing from the discussion (SR-14, Tom McCall Point) and others are linear viewpoints where only one or no views were picked in the NSA (Columbia River, Hwy 35, I-84, Historic Columbia River Highway). Therefore, it is unclear whether the impacts to NSA scenic resources were adequately captured.

2) The NSA is a nationally known and protected landscape of high quality and high sensitivity. All KVA scenic analyses should reflect this. The results of the applicant's analysis are heavily weighted on the assignment of existing scenic quality and viewer sensitivity. These methods were not tracked and do not represent the reality of the Scenic Area.

3) The conclusions made on the summary chart would more accurately be made using degree of contrast with the natural landscape both during the day and at night, and distance of the viewer from the project area. This assumes that the most visually impacted viewpoints have been found and that the simulations accurately depict the degree of contrast. The impact summaries starting on page 4.2-68 discuss these contrasts but the ratings do not reflect the discussion. For example the text for viewpoint #1 states that "the presence of the turbines would reduce the scene's degree of intactness by introducing a large number of highly visible engineered vertical elements" but the impact rating is low to moderate.

The Summary of Existing Scenic Quality and Project Visual Impacts on page 4.2-67 did not rate any viewpoint as having a high level of impact defined as: turbines "highly

3) Recommendations

In order to assure that the scenic resource impact is adequately analyzed, I recommend the following improvements to the scenic resource impact assessment:

- Include a discussion or summary of the most visible turbines,
- Include photographs of existing energy projects visible in the NSA,
- Do not use visual simulations (at a small scale with clouds in the picture) to depict the visual impact of visible turbines,
- Make certain that the most visible viewpoints have been covered, especially with respect to the linear viewpoints, and
- Make certain to include the night-time effects in your analysis.

In order to prevent the scenic impact of the turbines visible from the Scenic Area Key Viewing Areas, I also recommend that the applicant eliminate turbine locations found to be visible from Scenic Area KVAs. I am hopeful that close attention to these impacts will result in a solution which will fit the unique area that this project will potentially benefit.

Sincerely,

/s/ Daniel T. Harkenrider

DANIEL T. HARKENRIDER
Area Manager

cc: Jill Arens
Columbia River Gorge Commission

Bhavnani, Monica (CTED)

From: Linda Short [REDACTED]@gorge.net]
Sent: Wednesday, May 06, 2009 2:09 PM
To: CTED EFSEC
Subject: Industrial Wind Park in Scenic Area?

Follow Up Flag: Follow up
Flag Status: Green

To Allen Fiskdel

As a long-time resident of the Columbia Gorge area, I would like to share my thoughts about the proposed Whistling Ridge Wind installation.

I have been an advocate for alternative energy for decades, including wind power. But my research has led me to discover there isn't as big of a return on wind power as there are from other energy sources. The ongoing projects in eastern Washington and Oregon have proven the construction employment isn't local, it's certainly not a "farm," there is noise pollution and possible negative health effects and they put migrating birds at risk. These industrial wind parks also have proven to create more environmental disruption with road building and the huge concrete platforms that must be installed.

Putting such a business on the Whistling Ridge does not fit. It doesn't fit because of access and the degradation that it would cause in an environmentally fragile area, visibility and noise blight to many neighbors far and wide and the small return it would provide to the local community.

And let's remember the intent in preserving the unique Columbia Gorge Scenic Area. I'm not much into tourism, but I am into leaving a unique and natural legacy to my grandchildren.

Thank you for your consideration.

Linda Short
Columbia Gorge

Scoping Comment
#119

Bhavnani, Monica (CTED)

From: [REDACTED]@earthlink.net
Sent: Wednesday, May 06, 2009 2:21 PM
To: CTED EFSEC
Subject: Re: RE: Concern about Whistling Ridge
Follow Up Flag: Follow up
Flag Status: Green

I apologize for this automatic reply to your email.

To control spam, I now allow incoming messages only from senders I have approved beforehand.

If you would like to be added to my list of approved senders, please fill out the short request form (see link below). Once I approve you, I will receive your original message in my inbox. You do not need to resend your message. I apologize for this one-time inconvenience.

Click the link below to fill out the request:

<https://webmail.pas.earthlink.net/wam/addme?a=tlew4002@earthlink.net&id=1m1OynIF3NI36J1>

Bhavnani, Monica (CTED)

From: Krista Bakke [REDACTED]@wsu.edu
Sent: Wednesday, May 06, 2009 3:38 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Follow Up Flag: Follow up
Flag Status: Green

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal, ,

I am writing to comment on the proposed Whistling Ridge Energy Project in Skamania County, Washington.

The proposed project would cause significant negative impacts to sensitive wildlife and plant habitat and would degrade the outstanding scenic beauty of the Columbia River Gorge National Scenic Area.

The Whistling Ridge proposal includes more than 80 wind turbines in two counties, yet the application filed with EFSEC discusses only 50 turbines in Skamania County. The EIS must review the cumulative environmental impacts of all portions of the project, including both the Skamania Co. and Klickitat Co. portions.

This proposal is likely to have different and greater wildlife impacts than any other wind energy facility proposed in the State of Washington, because this project is proposed at a heavily forested site. The project would permanently disturb large areas of forested habitat and result in direct and indirect impacts to multiple wildlife species through habitat loss and displacement, direct collisions with turbine blades, and other factors. The potentially affected species include northern spotted owl, western gray squirrel, northern goshawk and other raptors, several species of bats, multiple migratory bird species, mule deer, black-tailed deer, and elk. Several of these species are listed as sensitive or threatened in Washington State.

Locating 426-foot-tall turbines on the ridgeline of the Columbia River Gorge would also degrade the scenic values of the Gorge. The turbines would be highly visible from several designated key viewing areas within the National Scenic Area, including Interstate 84, the Historic Columbia River Highway, Cook-Underwood Road, and Panorama Point. The project would introduce highly visible industrial facilities into the natural, forested landscape, protruding above ridgelines and detracting from the natural scenic beauty of the Gorge. The wind towers would have daytime and nighttime warning lights, which would worsen the aggravate scenic impacts.

Finally, the proposed project would be located partially within the Columbia River Gorge National Scenic Area. Specifically, the applicant proposes to construct, expand, and improve more than two miles of roads within the National Scenic Area in order to haul industrial materials with gross vehicle weights of up to 53 tons. This proposal to construct and use Scenic Area lands for industrial purposes is prohibited by the

National Scenic Area Act and Management Plan, and must be denied.

I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Krista Bakke


White Salmon, WA 98672

Scoping Comment
#121**Bhavnani, Monica (CTED)**

From: [REDACTED]@wellsfargo.com
Sent: Wednesday, May 06, 2009 4:04 PM
To: CTED EFSEC
Subject: SDS Wind Project!! WE NEED IT...
Follow Up Flag: Follow up
Flag Status: Green

Dear Mr. Fiksdal,

I am writing in support of SDS' application for a permit to build a wind farm on their property.

Windmills have long played a part in individual Americans' energy independence. Given modern technology, they are safer, quieter, and more efficient than ever. I am happy to see SDS Lumber taking positive steps to make clean, renewable energy a reality. Provided the project meets standard building safety requirements, I see no reason why it should not be approved.

I fully support SDS and its Future plans to build Windmills.

Thank You!!

Jeff Bardin
Home Mortgage Consultant
Wells Fargo Home Mortgage

[REDACTED]
Hood River, OR 97031

541-386-[REDACTED] Tel
800-678-[REDACTED] Toll-free
541-490-[REDACTED] Cell
866-671-[REDACTED] Fax

[REDACTED]@wellsfargo.com

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5/7/2009

Scoping Comment
#122**Bhavnani, Monica (CTED)**

From: Dean Johnson [REDACTED]@gjfc.net]
Sent: Wednesday, May 06, 2009 4:59 PM
To: CTED EFSEC
Subject: FW: whistling ridge wind project
Follow Up Flag: Follow up
Flag Status: Green

From: Dean Johnson
Sent: Wednesday, May 06, 2009 4:32 PM
Subject: whistling ridge wind project

To Whom It May Concern:

I would like to express my support of the Whistling Ridge Wind Project. It would be an economic boon to the residents of Skamania County and help lift an already depressed area. The project is outside the Gorge Scenic Area and the developer(s) should be able to proceed if they meet all regulatory requirements. The people of our State, misguided or not, place requirements for renewable energy and when a company tries to meet those needs, NIMBY's (probably the same people that made the requirements) fight to keep them out. Please allow the project to proceed.

Sincerely,
Dean Johnson
253 531 [REDACTED]

Bhavnani, Monica (CTED)

From: Scot and Rebecca [REDACTED]@gorge.net]
Sent: Wednesday, May 06, 2009 8:31 PM
To: CTED EFSEC
Subject: Whistling Ridge Energy Project

Follow Up Flag: Follow up
Flag Status: Green

Hello,

I am a resident of Skamania county, a property owner, county employee, and would like to give you my input about the Whistling Ridge Energy Project.

I am one hundred percent AGAINST the wind farm proposed to be placed here, and I have many good reasons you ought to consider.

1. We are in one of the most beautiful places in America, the Columbia Gorge. It is already a national scenic area and in another time, might have been made a national park. The mountains, gorges, waterfalls, wildlife, and recreational possibilities are astounding, and attract visitors here from all over the world. A ridge of wind towers with flashing red lights here in the gorge, visible from the scenic area, would put an unnecessary scar on this landscape and vista. It would be like putting wind towers up and down Mt.

Rainier. How can people even think of such a thing? This alone should be enough reason to stop this development.

2. Industrial development has its place, and the mountains of the Columbia Gorge are not the place. Wind farms belong out in the plains, (if they belong anywhere) away from residential centers, and in places where their footprint allows farming to take place all around them. From where I live, I can see the very ridge where the wind generators are going to be placed. In the Summer evenings I can watch the moon and stars rise up over that ridge. Are we all now to be forced to watch fifty blinking red lights across our night sky? We move to the country for peace, and starry nights without light pollution. If we wanted light pollution, we'd live in town or in the city. Will there come a time when Americans can't get away from industry?

3. We don't need more power, that is an illusion perpetrated by big business for big profits, but explanation of this would take hours. If people conserved energy and used energy efficient products, we would have an abundance of energy.

4. The proposed wind farm would only provide a very few full time jobs, and yet cause the misery of hundreds of residents. I do not want county services at the expense of my environment and beautiful country vistas. SDS is seducing the county with the prospect of tax revenue to run the county. Where will it stop? What will be the next industry to invade the Columbia Gorge to provide tax revenue? What is needed is a sustainable society, not more big business and destruction of our environment and natural resources.

Keep the wind farms in the plains, away from people and mountain communities. We live here for

the peace, quiet and clear skies.

Thank you.

Sincerely,

Scot Bergeron

Mill A, Washington

Skamania County

509-538-

Bhavnani, Monica (CTED)

From: Marita Ingalsbe [REDACTED]@yahoo.com]
Sent: Wednesday, May 06, 2009 10:26 PM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Follow Up Flag: Follow up
Flag Status: Green

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal, ,

I am writing to comment on the proposed Whistling Ridge Energy Project in Skamania County, Washington.

The proposed project would cause significant negative impacts to sensitive wildlife and plant habitat and would degrade the outstanding scenic beauty of the Columbia River Gorge National Scenic Area.

The Whistling Ridge proposal includes more than 80 wind turbines in two counties, yet the application filed with EFSEC discusses only 50 turbines in Skamania County. The EIS must review the cumulative environmental impacts of all portions of the project, including both the Skamania Co. and Klickitat Co. portions.

This proposal is likely to have different and greater wildlife impacts than any other wind energy facility proposed in the State of Washington, because this project is proposed at a heavily forested site. The project would permanently disturb large areas of forested habitat and result in direct and indirect impacts to multiple wildlife species through habitat loss and displacement, direct collisions with turbine blades, and other factors. The potentially affected species include northern spotted owl, western gray squirrel, northern goshawk and other raptors, several species of bats, multiple migratory bird species, mule deer, black-tailed deer, and elk. Several of these species are listed as sensitive or threatened in Washington State.

Locating 426-foot-tall turbines on the ridgeline of the Columbia River Gorge would also degrade the scenic values of the Gorge. The turbines would be highly visible from several designated key viewing areas within the National Scenic Area, including Interstate 84, the Historic Columbia River Highway, Cook-Underwood Road, and Panorama Point. The project would introduce highly visible industrial facilities into the natural, forested landscape, protruding above ridgelines and detracting from the natural scenic beauty of the Gorge. The wind towers would have daytime and nighttime warning lights, which would worsen the aggravate scenic impacts.

Finally, the proposed project would be located partially within the Columbia River Gorge National Scenic Area. Specifically, the applicant proposes to construct, expand, and improve more than two miles of roads within the National Scenic Area in order to haul industrial materials with gross vehicle weights of up to 53 tons. This proposal to construct and use Scenic Area lands for industrial purposes is prohibited by the

National Scenic Area Act and Management Plan, and must be denied.

I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Marita Ingalsbe

[REDACTED]
Portland, OR 97221

503-244-[REDACTED]

Bhavnani, Monica (CTED)

From: Tom Hons [REDACTED]@gorge.net]
Sent: Thursday, May 07, 2009 12:07 AM
To: CTED EFSEC
Subject: Concern about Whistling Ridge

Follow Up Flag: Follow up
Flag Status: Green

Allen Fiksdal
Manager, Energy Facility Site Evaluation Council PO Box 43172
905 Plum Street SE
Olympia , 98504-3172

Dear Mr. Fiksdal, ,

I am writing to comment on the proposed Whistling Ridge Energy Project in Skamania County, Washington.

The proposed project would cause significant negative impacts to sensitive wildlife and plant habitat and would degrade the outstanding scenic beauty of the Columbia River Gorge National Scenic Area.

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This proposal is likely to have different and greater wildlife impacts than any other wind energy facility proposed in the State of Washington, because this project is proposed at a heavily forested site. The project would permanently disturb large areas of forested habitat and result in direct and indirect impacts to multiple wildlife species through habitat loss and displacement, direct collisions with turbine blades, and other factors. The potentially affected species include northern spotted owl, western gray squirrel, northern goshawk and other raptors, several species of bats, multiple migratory bird species, mule deer, black-tailed deer, and elk. Several of these species are listed as sensitive or threatened in Washington State.

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National Scenic Area Act and Management Plan, and must be denied.

I support renewable energy, but I am opposed to industrial-scale wind energy development within or adjacent to the Columbia River Gorge National Scenic Area, a designated national scenic treasure.

Tom Hons

[REDACTED]
Hood River, OR 97031

541-386 [REDACTED]

Scoping Comment
#126**Bhavnani, Monica (CTED)**

From: Sam Grimm [REDACTED]@hotmail.com]
Sent: Thursday, May 07, 2009 8:10 AM
To: CTED EFSEC
Subject: Whistling Ridge Energy Project
Follow Up Flag: Follow up
Flag Status: Green

To whom it may concern:

I am writing this email to express my concerns regarding the SDS/Broughton wind energy project on Underwood Mtn in Skamania County. Skamania County has long been supported by revenues generated by forest management/timber harvesting activities. Nearly the entire county is made up of the Gifford Pinchot National Forest, and the Federal Government has reduced timber harvest levels at least 90% since the 80's. The Columbia River Gorge National Scenic Area has also curtailed development opportunities within the County. Seasonal tourism has been the *only* source of economic development/support for the people of Skamania in recent years, and this has been limited. Unemployment is amongst the highest in the State, and there is no foreseeable opportunity on the horizon. Current economic forecasts are not promising for anyone, let alone the citizens of Skamania County...however, the SDS/Broughton project would be an immediate shot in the arm for the County, and would guarantee revenues for the next 20 years.

SDS/Broughton has gone to great lengths and expense to review environmental impacts, and their project is outside the Columbia River Gorge National Scenic Area. The project would contribute to the success of Initiative 937 (15% new renewable energy by 2020), and the companies are setting an example of how to manage for multiple sustainable resources while minimizing environmental impacts.

Thank you for your time.

Sam Grimm
Carson, WA

Hotmail® goes with you. [Get it on your BlackBerry or iPhone.](#)

Scoping Comment
#127**Bhavnani, Monica (CTED)**

From: Dean Johnson [REDACTED]@gjfc.net]
Sent: Thursday, May 07, 2009 8:35 AM
To: CTED EFSEC
Subject: FW: whistling ridge wind project
Follow Up Flag: Follow up
Flag Status: Green

From: Dean Johnson
Sent: Wednesday, May 06, 2009 4:59 PM
To: 'efsec@cted.wa.gov'
Subject: FW: whistling ridge wind project

From: Dean Johnson
Sent: Wednesday, May 06, 2009 4:32 PM
Subject: whistling ridge wind project

To Whom It May Concern:

I would like to express my support of the Whistling Ridge Wind Project. It would be an economic boon to the residents of Skamania County and help lift an already depressed area. The project is outside the Gorge Scenic Area and the developer(s) should be able to proceed if they meet all regulatory requirements. The people of our State, misguided or not, place requirements for renewable energy and when a company tries to meet those needs, NIMBY's (probably the same people that made the requirements) fight to keep them out. Please allow the project to proceed.

Sincerely,
Dean Johnson

[REDACTED]
Lake Tapps, Wa 98391
253 531 [REDACTED]

5/7/2009

Bhavnani, Monica (CTED)

From: Palmer, James (CTED)
Sent: Thursday, May 07, 2009 10:34 AM
To: CTED EFSEC
Subject: Whistling Ridge Mailing List

Follow Up Flag: Follow up
Flag Status: Green

To whom it may concern,

Please add me to the Whistling Ridge mailing list. If there are other current wind projects, I would like to also be added to them. I'm with the business recruitment division and work with a number of companies that are interested in bringing jobs to the state through wind development projects. I am most interested in keeping abreast of any RFPs that wind developers could submit applications for.

Regards,

James Palmer
Economic Development Manager
International Trade and Economic Development

Cell (206) 321-██████
Office (206) 256-██████

CTED invests in Washington's communities, businesses and families to build a healthy and prosperous future.