Wind and Wildlife



Nick Myatt
Oregon Dept. Fish and Wildlife

Wind and Wildlife

- Potential wildlife impacts
- Wind development siting
- Development process
- Baker County wind and wildlife

Potential Wildlife Impacts

Collisions/strikes

- Birds
 - Most researched impact
 - Altamont Pass project in CA
 - Improvements in turbine design
 - Review of projects = 2.19 strikes/turbine (West, Inc.)
 - Stateline 454, 660 kw turbines (West, Inc.)
 - July 01 Dec 03
 - 232 bird fatalities of 35 species

Potential Wildlife Impacts

Collisions/strikes

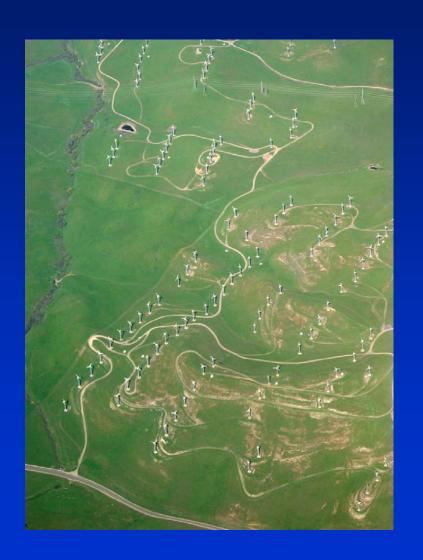
- Bats
 - 500 insects/hour
 - Significant mort.
 - Tower attraction?
 - Barotrauma



Potential Wildlife Impacts

Habitat

- Fragmentation
- Increased roads
- Noxious weeds
- Harassment
- Structure avoidance



Wind Project Siting



Wind Project Siting



Columbia Plateau Ecoregion Wind Energy Siting and Permitting Guidelines

- Macrositing
- Pre-project assessment
- Micro-siting
- Permit application
- Construction
- Monitoring
- Habitat mitigation

- Macrositing
 - review resource concerns
 - sage grouse habitat
 - big game winter range
 - important wildlife areas
 - migration routes
 - presence of T/E species
 - review of cumulative impacts
 - good time to consult with ODFW

- Pre-project assessment
 - coordination with wildlife agencies
 - habitat mapping
 - raptor nest survey
 - bat/avian use surveys
 - T/E species surveys
 - sage grouse helicopter surveys

Micro-siting

- after all resource data collected
- final project design
- location of towers/structures
- compromise

- Permit application
 - outline resource concerns
 - finalized mitigation plan
 - · acres/type habitat impacted
 - location/type habitat created
 - maintenance/monitoring
 - ODFW mitigation policy
 - state vs. county/federal process
 - ranks habitat 1 6

- Construction
 - avoid sensitive areas
 - avoid sensitive times
 - sage grouse breeding season
 - big game winter period
 - restore temp disturbed areas

- Monitoring
 - bird/bat carcass surveys
 - handling/reporting protocol
 - post project surveys

- Mitigation
 - cons. easement
 - weed eradication
 - juniper removal
 - grazing mgmt.
 - create wetlands
 - riparian fencing
 - shrub planting



Baker County Issues

- Development of public land
- Native vs. impacted areas
- Big game winter range
- Sage grouse

Baker County Issues

Sage Grouse

- Populations decline
- Petitioned for federal listing
- Isolated/small population
- Highly fragmented landscape
- Sage grouse in windy areas
- ODFW recommend 3 mile buffer

Baker County Issues

Recommendations

- Use siting guidelines
- Properly site projects
- Prevent sage grouse listing
- Ensure sufficient mitigation

THE END

