



# The DoD Siting Clearinghouse

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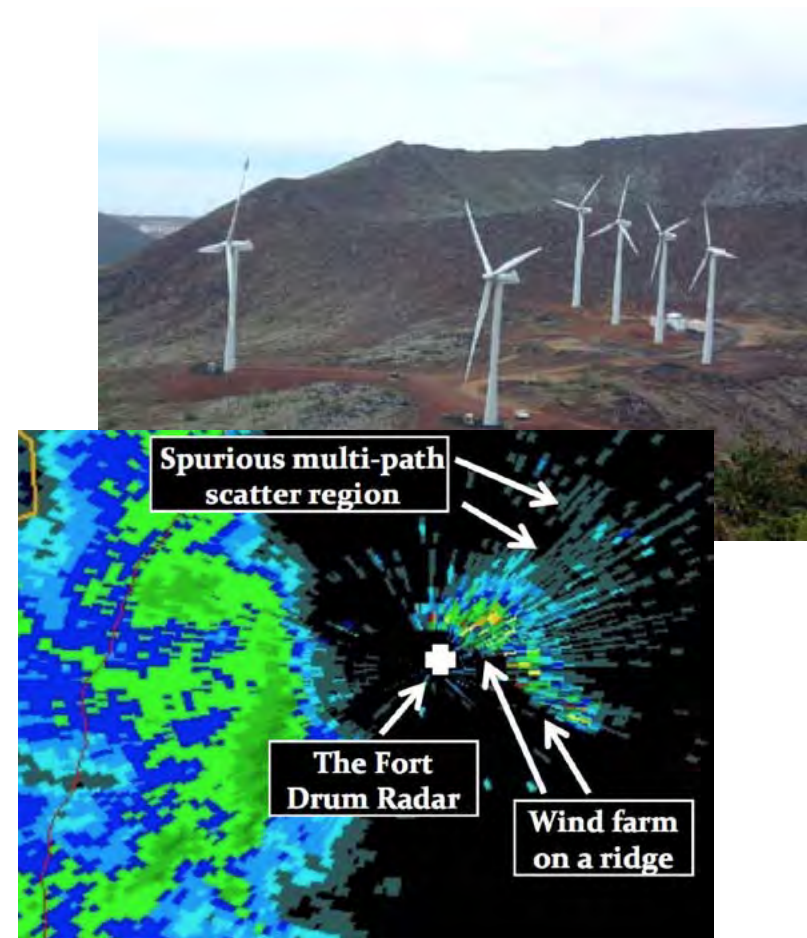
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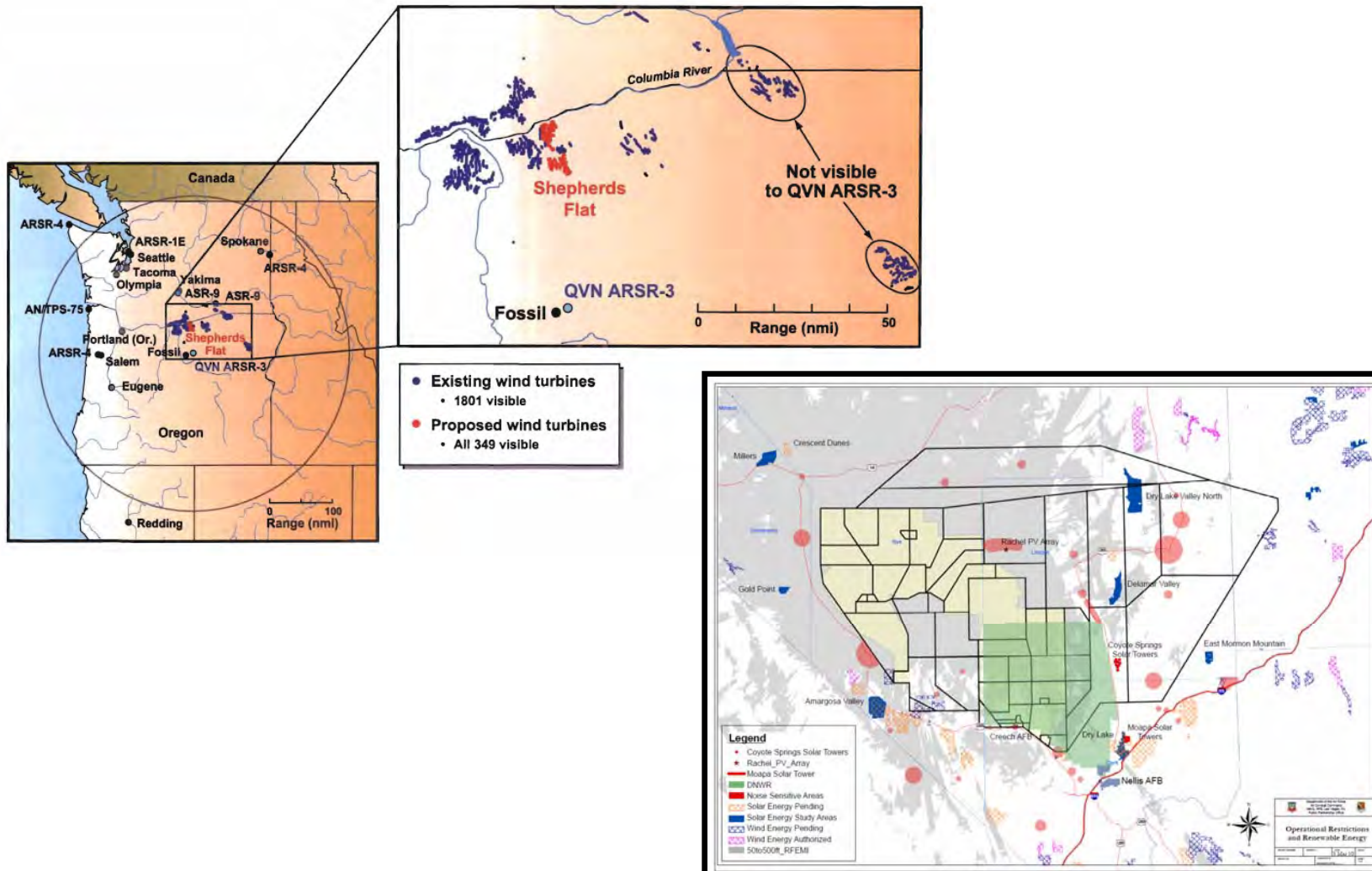
# The Nexus of National Security & Renewable Energy

- Unintended Consequences
  - Rapid development of renewable technologies
  - Rapidly changing military technology research & development
- Existing Policy and Processes
  - Not up to date with changing technologies
  - Land use decision-making authorities fragmented across all levels of government





# From Nellis to Shepherds Flat: Congressional Push for Action





# Congressional Response – FY2011 NDAA, Section 358

- Section 358 “Study Of Effects Of New Construction Of Obstructions On Military Installations And Operations”
  - Integrated review process
  - 180-day backlog assessment
  - Identification of mitigation options
  - Comprehensive strategy for addressing military impacts of projects
  - Limited authority to object to projects
  - Ability to accept voluntary contributions for mitigation







# 32 CFR Part 211: Mission Compatibility Evaluation Process

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- Establishes general procedures on how DoD reviews and comments on applications filed pursuant to 49 U.S.C. § 44718
- Provides information on how developers, local officials, or members of the public can engage the Clearinghouse for early consultation on projects
- Will serve as the foundation for a formal DoD Instruction
- Published in Federal Register on October 20, 2011
  - Comment period ends December 19, 2011



# DoD Siting Clearinghouse— Concept of Operations

- **A Single DoD Voice**

- Parallel Multi-Service Review
- Timely, Repeatable, Predictable Process
- Promote compatibility between renewable energy & military mission operations
- Oversight and coordination of mitigation negotiation
- Decisions based on empirical data and rigorous science
- Outreach & early consultation with industry, local, state, and Federal stakeholders
- NOT a replacement for OE/AAA, NTIA, or NEPA





# DoD Siting Clearinghouse— CONOPs continued

## • Impact Analysis & Tools

- Projects assessed by all DoD Components across core missions
- Evaluation Criteria:
  - **Green:** Minor to no impact on military operations
  - **Yellow:** Major impact to military operations but mitigation is possible
  - **Red:** Major impact to military operations that cannot be reasonably mitigated
- Mission Compatibility Awareness Tool (MCAT)
- Operational Impact Assessment Tools
- Preliminary Review: 30 days
- Final Decision: DepSecDef

3 x 3 Impact Analysis Matrix			
	Minor or No Impact	Major Impact, Mitigation Possible	Major Impact, Mitigation NOT Possible
Training & Readiness			
LRR & Surveillance			
Test & Evaluation			







# Early Success:

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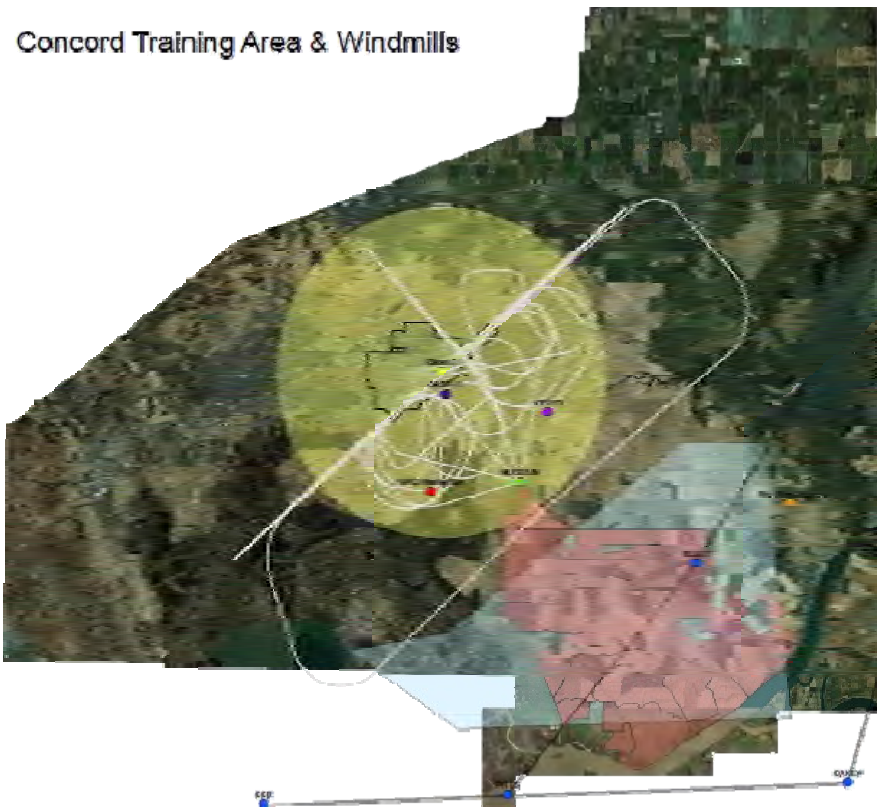


- **249:** Number of projects delayed due to DoD concerns prior to passage of Section 358 in the FY2011 NDAA
- **229:** Number of projects the DoD Siting Clearinghouse and DoD Components found have minor/no impact on military missions
- **20:** Number of projects that may have adverse impacts on military missions and require additional analysis to determine if mitigation is possible
- **>10:** gigawatts of mission-compatible renewable energy electrical generation capacity (6300+ turbines, 30 solar projects)



# Model for Success

Concord Training Area & Windmills



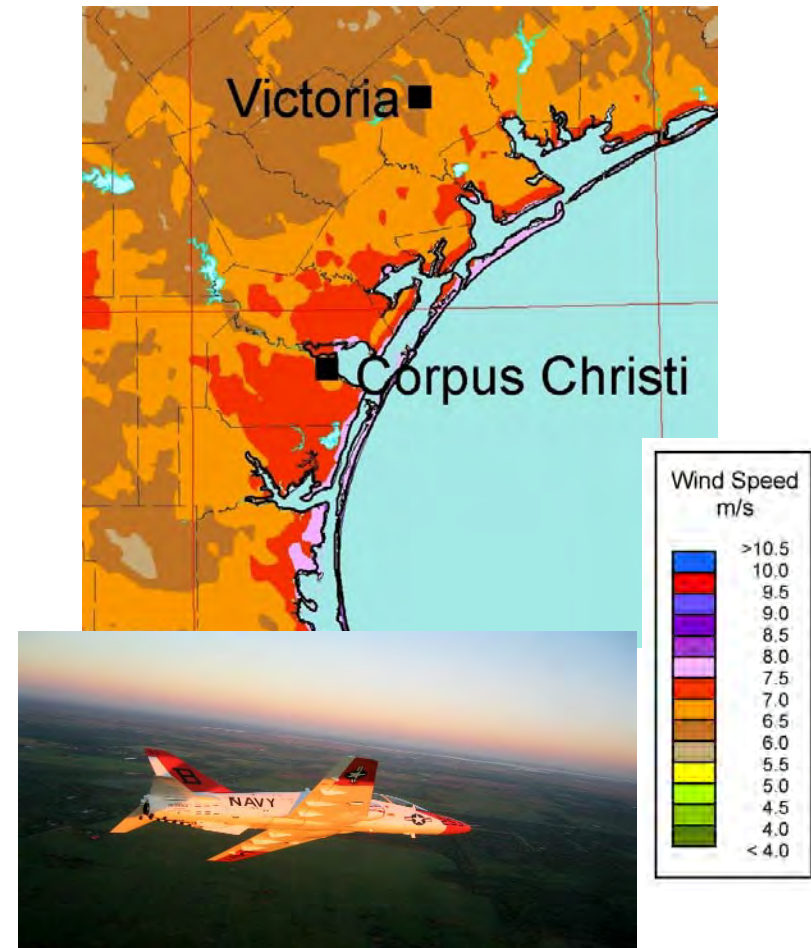
- Travis AFB CRADA

- Siting of Turbines created radar tracking issues
- Cooperative Research and Development Agreement (CRADA)
- Multiple Partners including Air Force, utility provider, wind developer, and consultants, plus multiple supporting organizations
- Sensor fusion greatly reduces radar interference
- A partnership is in place to better address future



# South Texas Model

- At least 6 onshore, 2 offshore projects built or proposed
- Multiple impacts on Navy radars and training
- FAA controllers and radar also impacted
- OSD and Dept of Navy team is reaching out to developers





# Mitigation Response Teams

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- Evaluate mitigation options for projects that were deemed to have an impact on military operations, and negotiate implementation with industry and other stakeholders
- Comprised of representatives from all affected DoD Components
- Report to the Mitigation Oversight Committee – Senior Staff from all Clearinghouse Components.







# Research & Development

- Wind-Radar Interagency Field Test & Evaluation
  - Multi-agency partnership led by DOE, DoD, DHS, & FAA
    - Through MIT Lincoln Labs and Sandia National Laboratory
    - RFI Closes October 31, 2011
  - Multiple Off-The-Shelf Technologies
    - Baseline radar systems, including air traffic control and homeland defense
    - Test multiple OTS mitigation technologies
    - Tests begin April 2012
- DHS-led Radar Modeling Tool Development
  - Goal: Improve modeling of the effects of wind-turbines on radar systems
  - Focus primarily on Raytheon CARSR & ARSR-11
  - Two-year program expecting December 2012 delivery
  - 3-dimensional models for scatter, clutter and false targets.







# DoD Energy Partnerships



- Multiple Goals
  - Energy Security
  - National Renewable Energy Goals
  - Mission Sustainability
- Multiple Authorities:
  - Power Purchase Agreements (PPAs)
    - Up to 30 years – 10 U.S.C. § 2922a
  - Enhanced Use Lease (EUL)
    - Consistent with 10 U.S.C § 2662 and 10 U.S.C § 2911
  - Energy Savings Performance Contracts (ESPCs)
  - Utility Energy Service Contracts (UESCs)
  - Contracts signed by Services/Installations
- More Information:

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