

# *United States Air Force Warfare Center*

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*Testing - Tactics - Training*



## **Nellis Mission & Compatible Development Brief**

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Commander  
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2 September 2009**

**This Briefing is:  
UNCLASSIFIED**

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# Overview

- **Nellis Mission**
- **What We Bring to Nevada**
- **Nevada Test and Training Range**
- **What We Need**
- **Renewable Energy**
- **Partnership and Outreach**





# We are...



***The Nevada Test and Training Range***

***Nellis Air Force Base***

***Creech Air Force Base (432 WG)***

***The Tonopah Test Range***

T e s



# Team Nellis



- Air Combat Command's largest complex
  - 3 airfields, 2 ranges, 10 other sites
    - Nellis/Creech/Tonopah Airfields
    - Nevada Test and Training Range
  - 2.9M+ acres of land
  - 12K sq nautical miles of airspace
  - 159 aircraft assigned
  - 12 different aircraft weapon systems
  - 75% of USAF's annual live/heavy training
- \$4.9 billion annual economic impact
  - 13,000+ people employed
  - Significant family/retiree footprint

- USAF Thunderbirds
- Weapons School
- Operational Testing
- Predator/Reaper UAS
- Red Flag & Green Flag
- Aggressors
- Special Operations

## ***USAF Warfare Center Specified Mission Tasks***

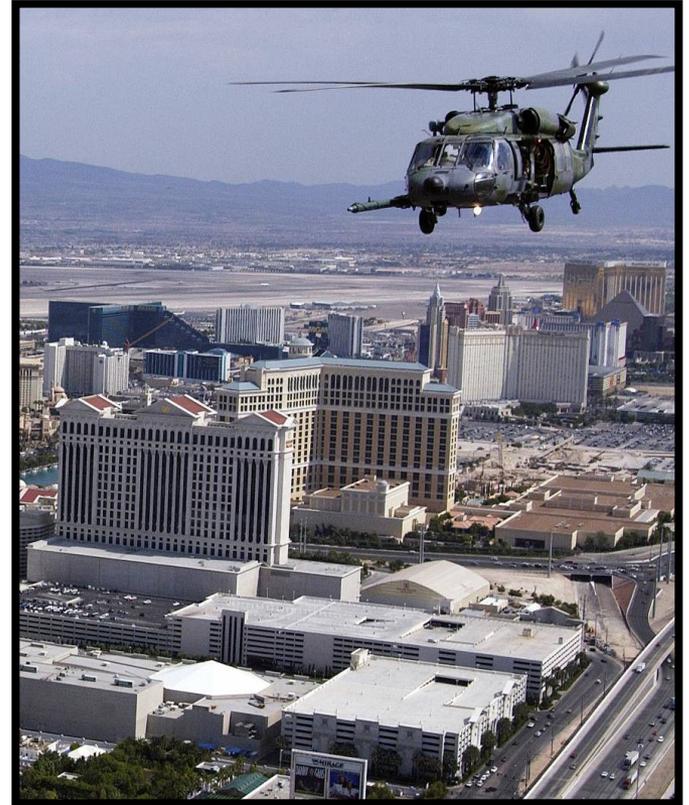
- *Analyze Adversaries*
- *Certify Equipment*
  - *Define Tactics*
  - *Train Leaders*
- *Enhance Performance*
- *Force Domain Integration*

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# What We Bring to Nevada

- 33,800 military/civilian/families
- 27,500 Retirees & Veterans
- 1,200 visitors per day
- 5,400 estimated jobs created
- \$2.5B for contracts

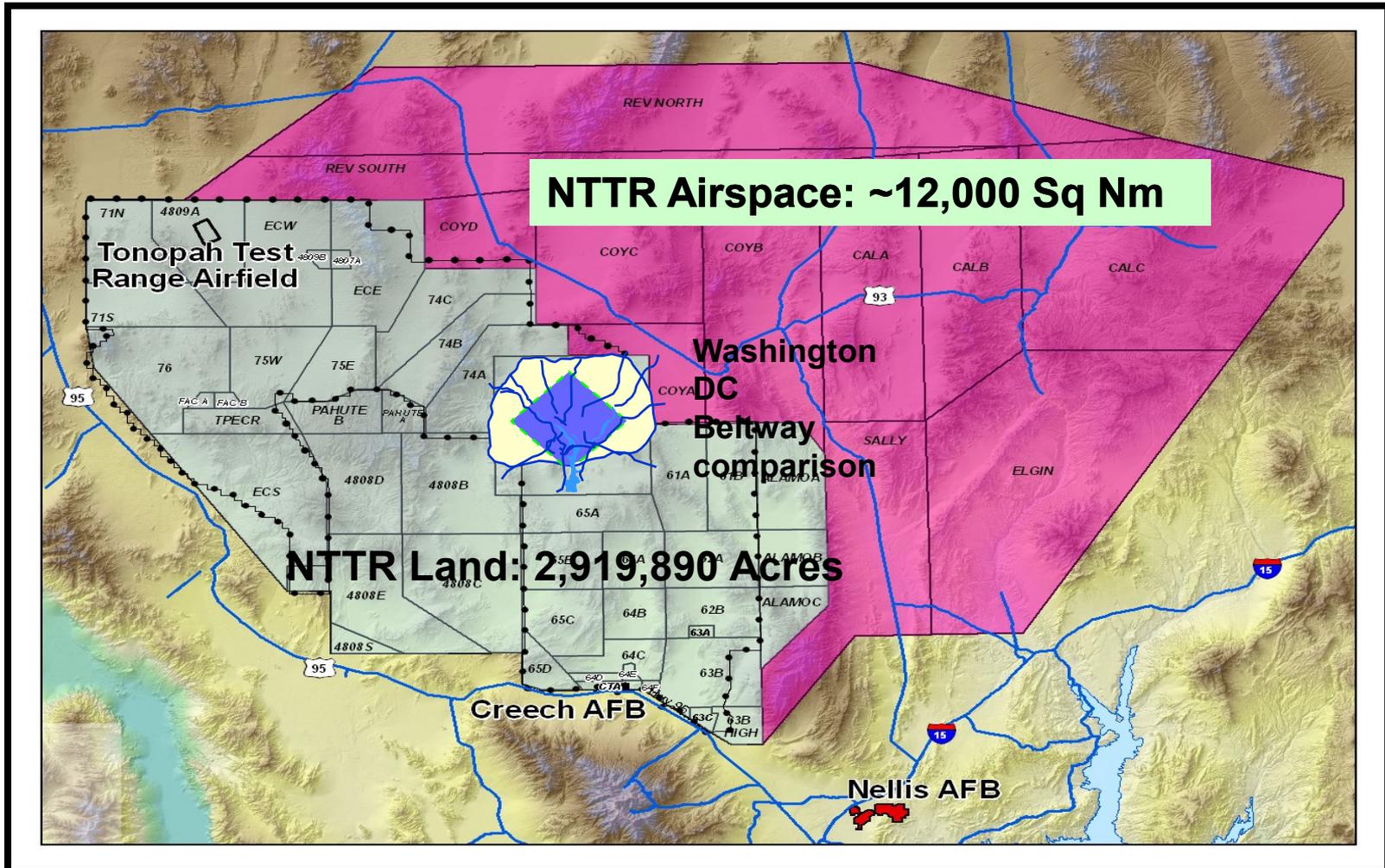


**\$5.1 B Economic Impact in 2008**

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# NV Test and Training Range

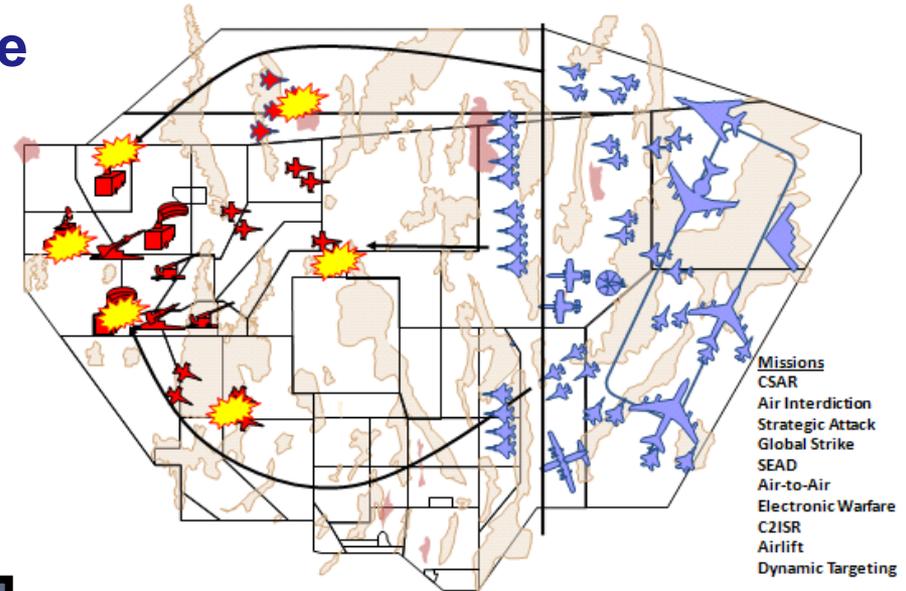


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# Nevada Test & Training Range

- **Unique/Unmatched Battlespace**
  - More than 35,000 sorties/year
  - 2,000+ Targets
  - Telemetry / Data Recording
  - Playback / Scoring
  - Simulate any enemy system

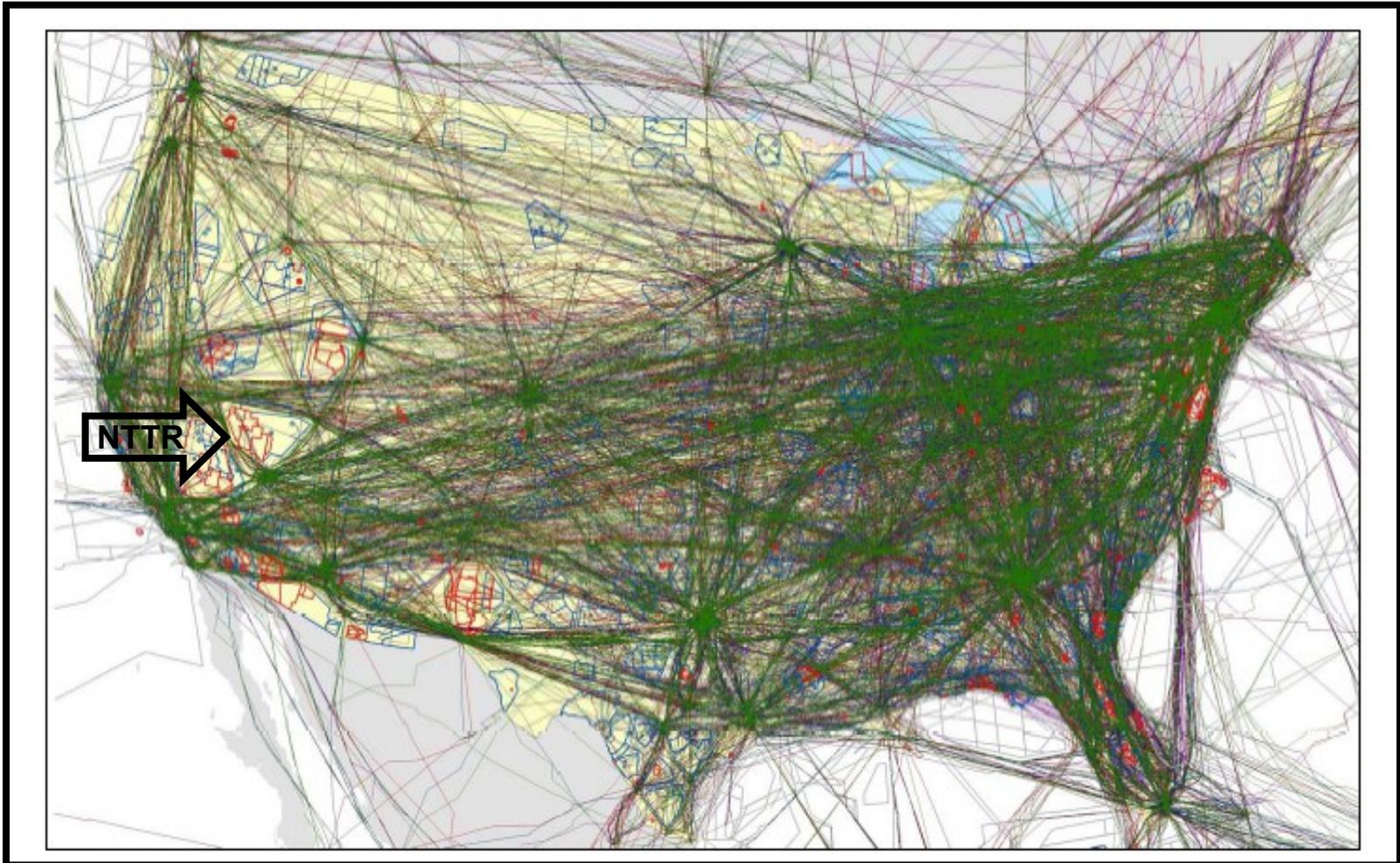


**A NATIONAL TREASURE**

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# 5 Hours of Civil Tracks

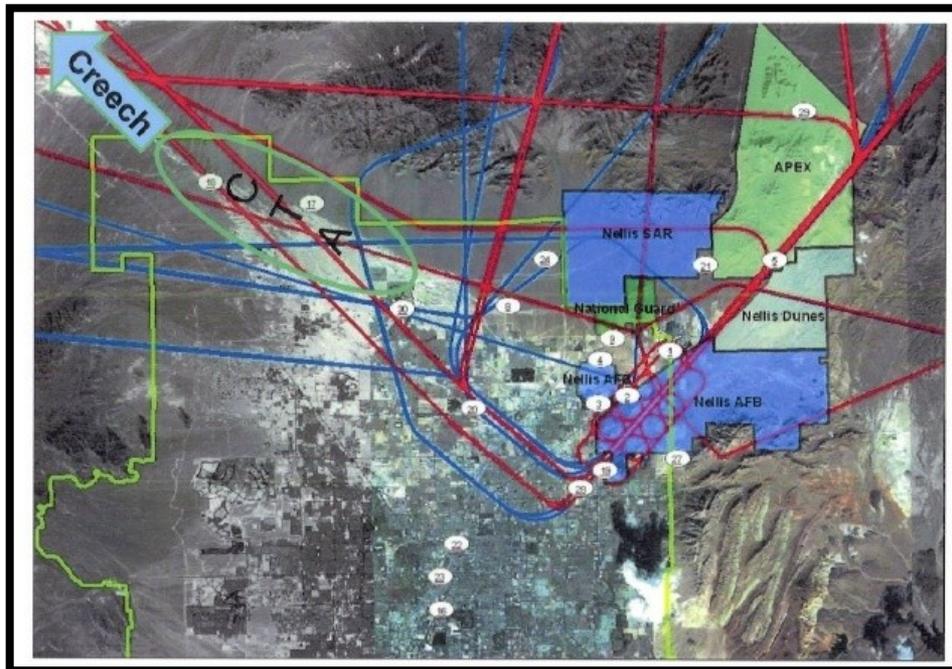


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# What We Need

- Ability to safely take off/land at Nellis/Creech/Tonopah
- Unobstructed routes to/from NTTR airspace/ranges
- Ability to safely utilize invaluable NTTR airspace/ranges
- Means to safely complete critical ground training

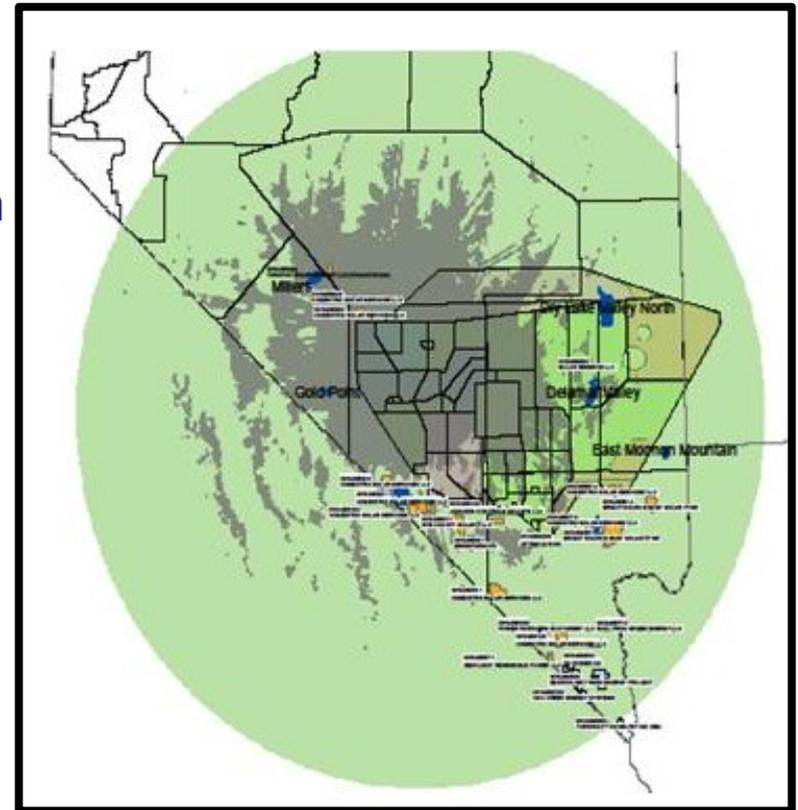


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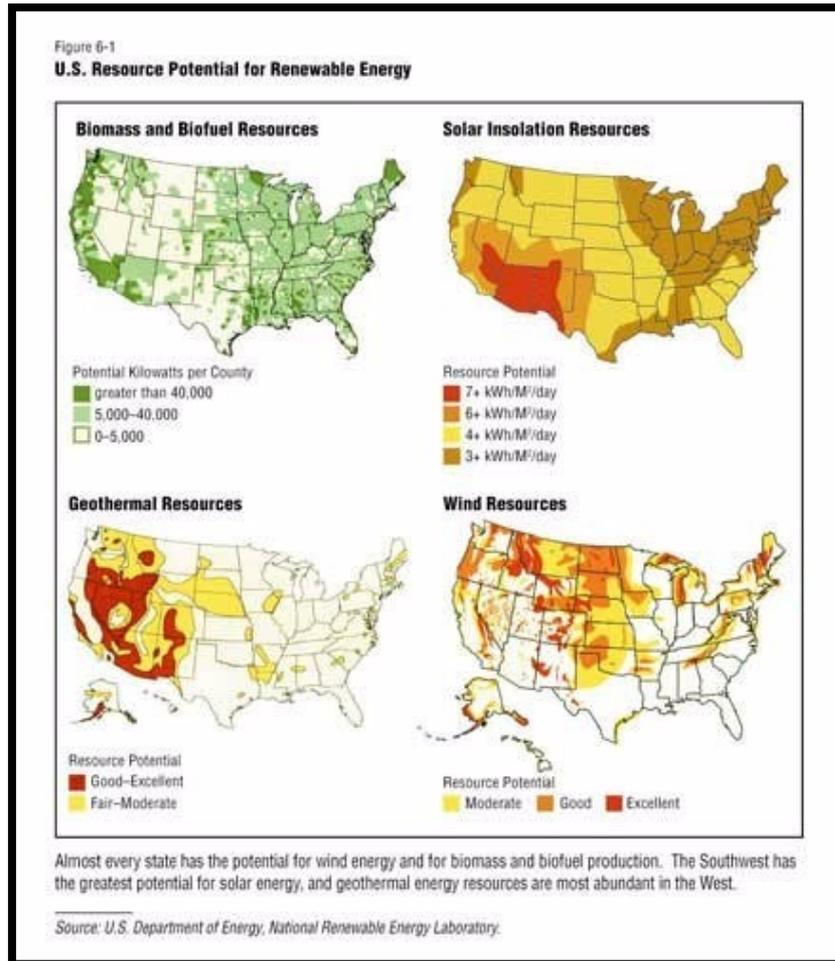
# Renewable Energy Pressures

- 100+ proposals in NV already
  - Abundant energy resources
  - BLM land is very attractive
  - Clarification needed for projects on military withdrawn lands
- Mission impacts vary
  - Wind Energy: Height; radar
  - Solar Energy: Height; radar; glare; noise/boom damage; heat
  - Geothermal: Unknown
  - New Energy Corridors: Height





# Nevada is a Solar Gold Mine





# Solar Programmatic Environmental Impact Statement

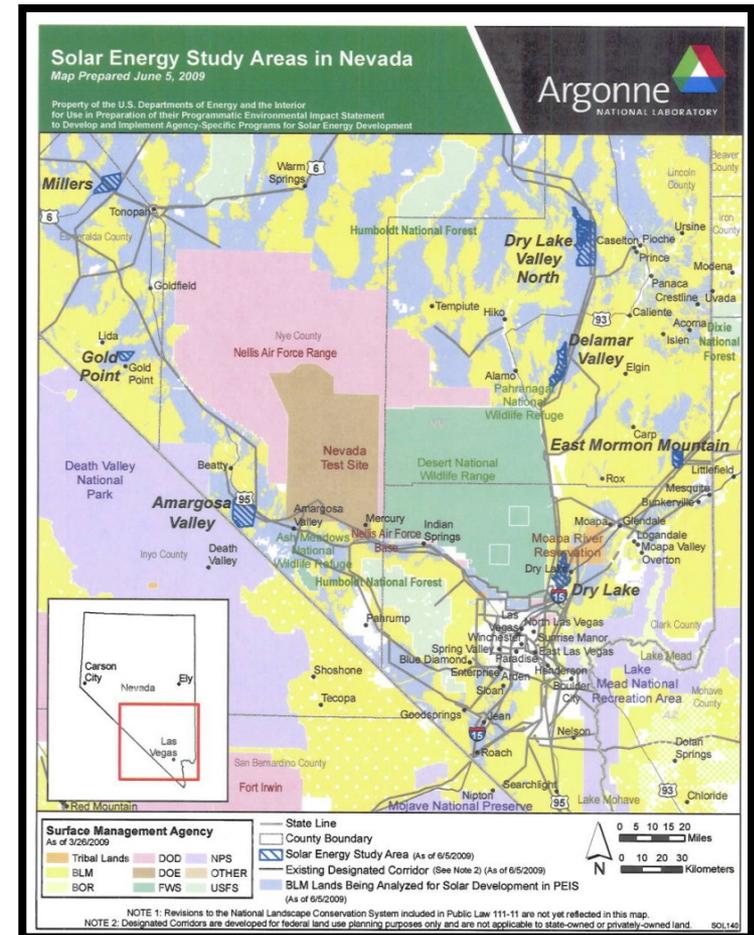
- US DOE and BLM are preparing a draft PEIS to evaluate utility-scale solar energy development

- Twenty-four sites over six southwestern states

- Seven solar study areas in Nevada

- DoD is a cooperating agency

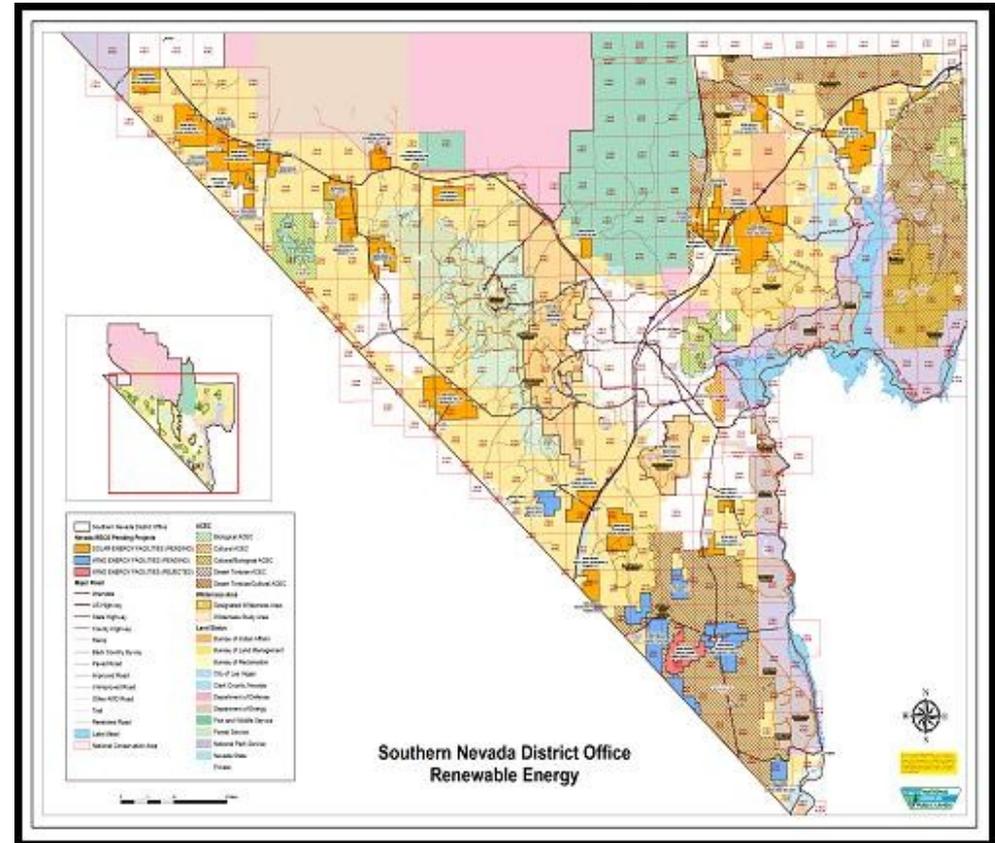
- Comments to DoD 14 Sep 09





# Southern Nevada Renewable Energy Projects

- Rights of way submitted in southern Nevada
  - Four wind projects
  - Thirty-one solar projects
    - Six Parabolic Troughs
    - Fifteen Concentrated Solar Power Towers
    - Ten Photovoltaic



Many other rights of way submitted on or near the NTTR



# Renewable Energy Potential Impacts



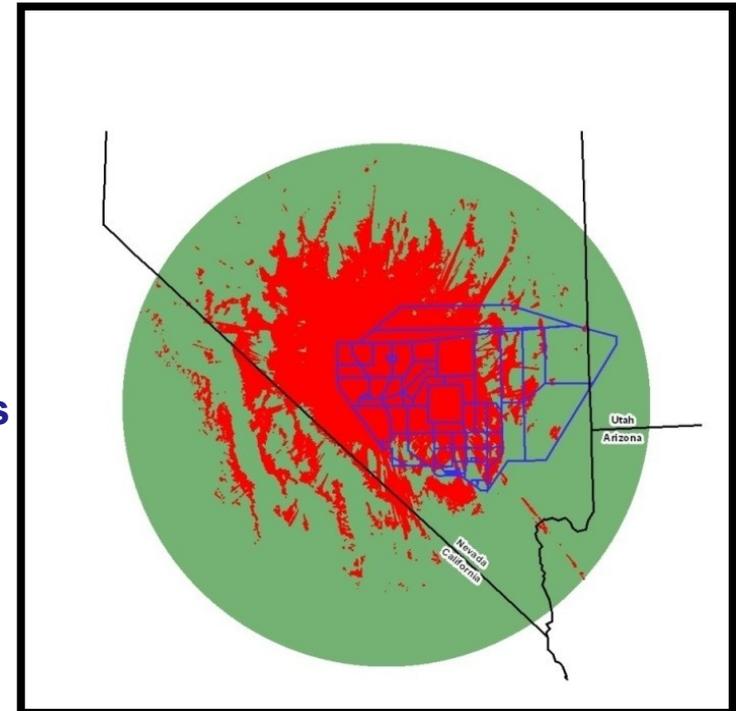
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# What We Are Doing: Studies

- Requested study to quantify renewable energy project/transmission impacts
  - Radar Cross Section (RCS) analysis
  - Doppler analysis of spectral line development if structure has external moving parts
  - DoD impacts on solar in supersonic airspace
  - AF drafting SOW; \$1M for Phase I via stimulus
- Multiple other studies also in progress
- Nellis AFB Energy Summit

Quiet Environment/RCS Impact  
Areas



**Disjointed Analysis Without an Overarching Agency/Advocacy + Multiple Green Energy Pressures = Slow, but Inevitable Loss of the NTTR**





# Key Partnerships and Outreach

- President Obama
- US Senator Reid
- US Senator Ensign
- US Senator Nelson
- US Congresswomen Berkley
- US Congressman Heller
- US Congresswoman Titus
- State Senator Nolan
- City of Las Vegas
- City of North Las Vegas
- City of Mesquite
- Nye County Board of Commissioners
- Clark County Board of Commissioners
- Lincoln County Board of Commissioners
- Esmeralda County Board of Commissioners
- Bureau of Land Management





# Way Ahead

- **National Treasure threatened on many fronts**
  - Compatible growth keeps public safe and protects mission
  - Renewable energy push brings unique challenges
  - Local program strong, but federal/state/local help needed
- **USAF and BLM working relationship critical**
  - Outstanding support from Nevada BLM offices
  - Capitalize on partnerships where interests overlap
  - Early Notification paramount
  - DOI/DOD wind protocol to include all renewables

**Goal: Permanent solution—a way for the NTTR Joint Users to Say “YES” to protect current warfighting capabilities and future military operations**

- **Federal/state legislative actions and support**

# Nellis Air Force Base



Questions?