



Invenergy

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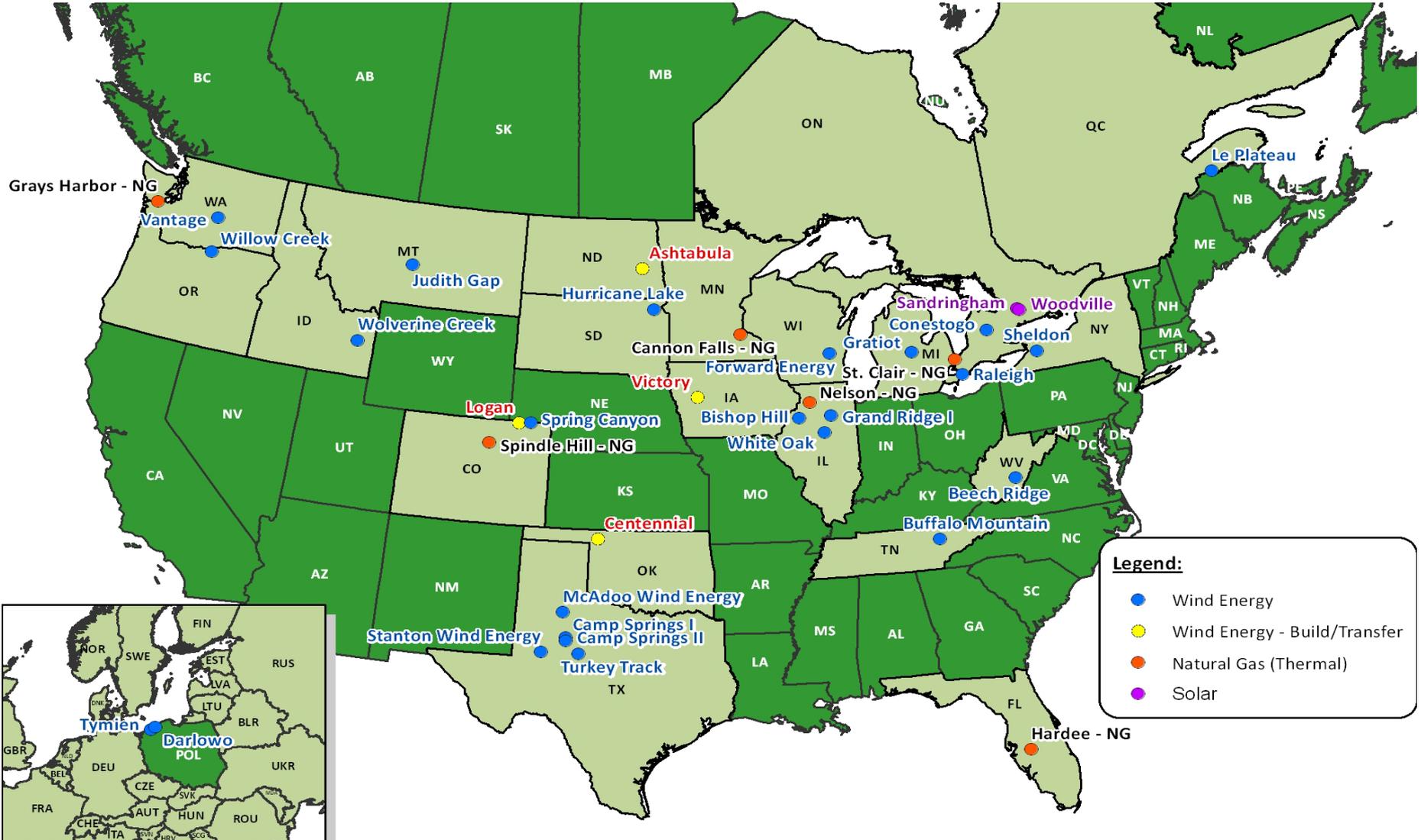
## Introduction

- Developer, owner and operator of power generation projects.
- Focused on the development of renewable energy and natural gas energy projects.
- Invenergy management team is headquartered in Chicago with regional offices in Austin, Denver, Minneapolis, Washington D.C. and international offices in Toronto and Warsaw.
- At the end of 2009, Invenergy was the 6<sup>th</sup> largest owner/operator of wind energy facilities in the United States.



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## Wind and Thermal Portfolio - Map



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## Solar Development

- More than 400 MW of solar projects in development and 20 MW under contract
- Projects range in size from 1 to 200 MW
- Technologies: PV, CPV, Solar Thermal, Solar/Combined Cycle Hybrid
- Majority of projects located in the Western U.S.; remaining projects located in states having renewable portfolio standards with attractive solar “carve-out” provisions or in international locations with attractive incentive regimes.

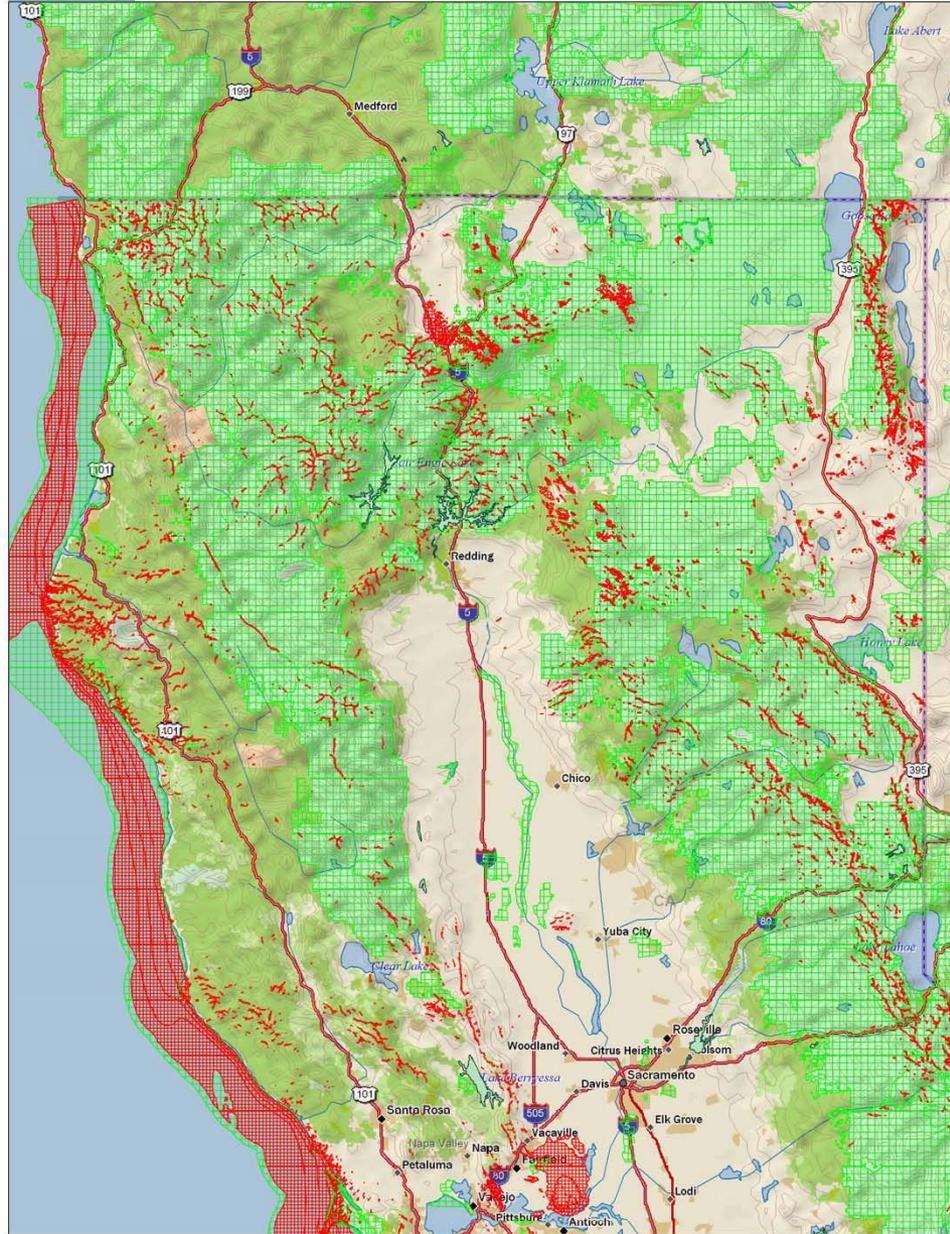


# The BLM Wind Development Process

- Siting Issues/ Understanding Developer Needs
- Right of Ways
- Resource Management Plans/ Land use issues
- Visual Resource Management
- Environmental Studies/ Agency Coordination
- Plans of Development
- Environmental Impact Statements
- Government/Private Sector Cultural Differences/ Relationships and Expectations

# Siting Wind Development in the Western US on Federal Land

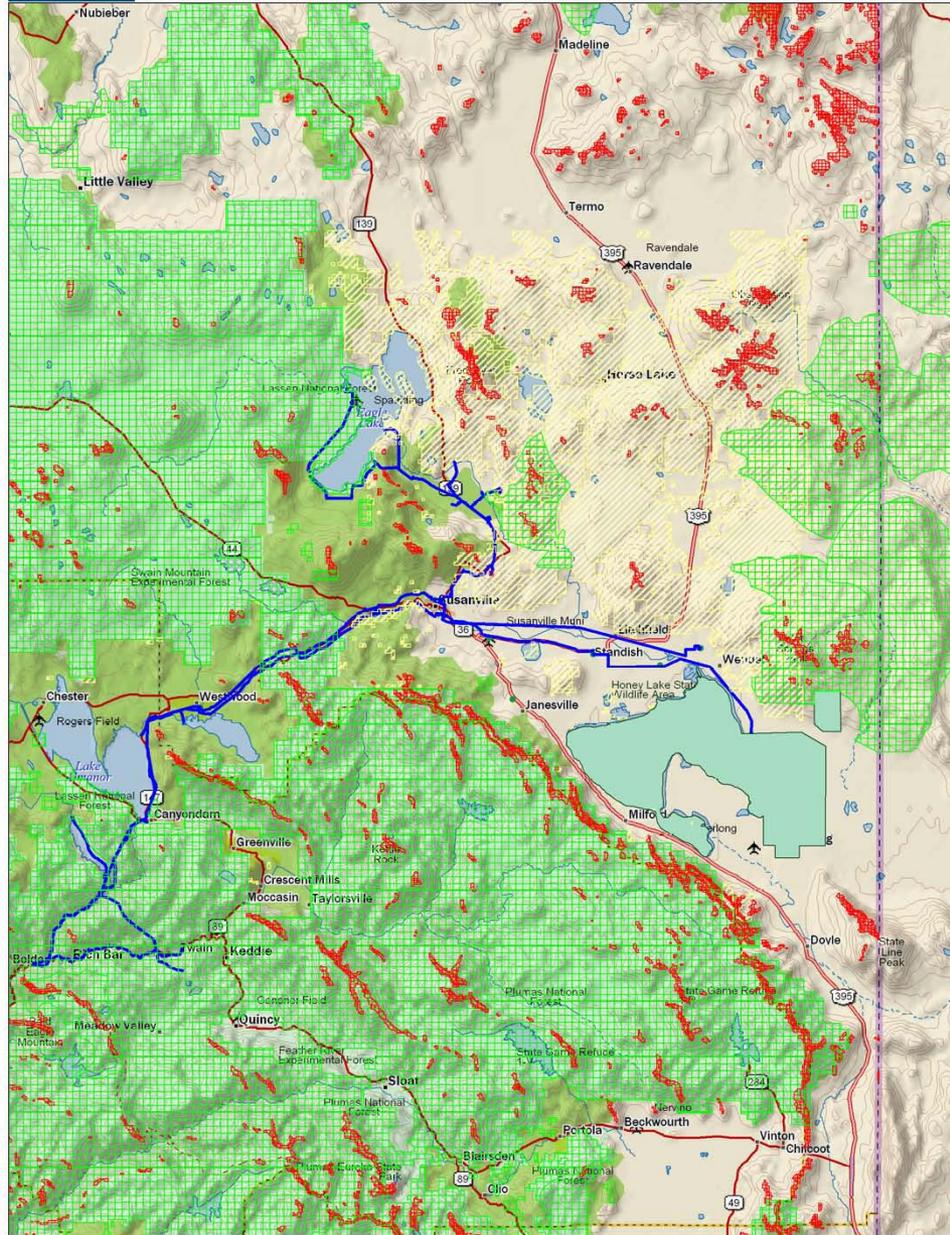
- **Limited Site Availability**
  - Viable Wind Resource
  - Land Use Restrictions on Federal Land
- **Transmission**
  - Limited network on remote BLM lands
  - Private Developers do not have resources
  - Linear ROW Applications for Project GenTie
- **Access to Market**



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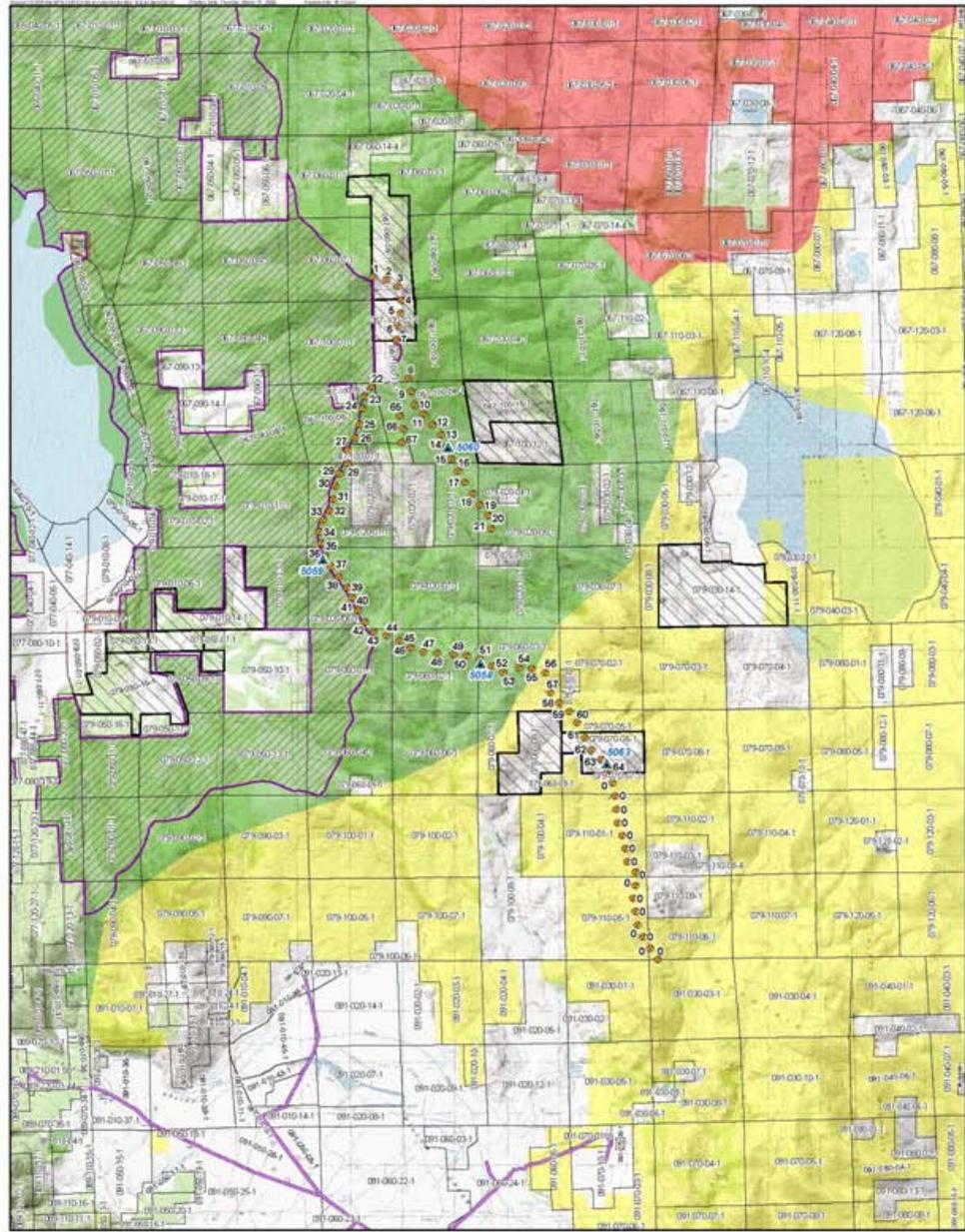


# Right of Way Grants

- Type II Wind Development Lease Applications
- Developer begins research/scouting May 2010
- SF-299 with Met Tower Locations identified
- Request received in August 2010
- Botanical Survey in June 2011
- ROW Grant might be issued in September 2011, Met Towers installed October
  
- Rarely is the 3 year term granted under a STAMPA Type II ROW Grant Adequate

# Resource Management Plans

- Do they address energy development?
- Many older plans created before renewable energy was issue
- ACECs – purpose of the ACEC, is it compatible with renewable energy development
- VRMs- might be most common conflict found between renewable energy development and existing land use designations –ROW issue
- Concurrent EIS/RMP Amendment Process



**Legend**

- Proposed Turbine Location
- ▲ Met Tower Location
- VRM Classifications
- LMUD Transmission Line
- ▭ Parcel Boundary
- ▨ Class II
- ▨ BLM ACEC Land
- ▨ Signed Land Owner
- ▨ Class III



# Environmental Studies/ Agency Coordination

- Coordination between the BLM Field Staff and Developer essential
- Development of comprehensive study plan early in process is critical
- Consultations with Responsible Agencies/ Agency buy in critical
- Documentation of Agency Consultations/ buy in
  
- State or Local cooperation critical for Joint Document type permitting tracks

# The Plan of Development

- POD Requirements
- When should a POD be submitted?
- Post Resource Study-Developer completes all baseline studies first, then submits POD
- POD is submitted first then Third Party EIS Contractor completes studies as part of the EIS Process
- Scoping Issues without Baseline Data

# Environmental Impact Statements

- Explanation of process, timeline, responsibilities to developer
- Selection of third party contractor/ who contracts with who?
- Public Scoping/ Developer role in process
- Joint Documents/ Three Party MOU between Developer/BLM/State or Local Permitting Agency or two party MOU

# Government and Private Sector Conflicts

- Cultural Differences
- Time Horizons
- Balance between long term view of Stewardship of Public Resources vs. Private Sector need to move forward or die
- Limited private sector resources, often time is most limiting factor for Private Sector
- Encourage Developer to become stakeholders and participate at every level



