Battle Mountain Band – Te-Moak

Chairman Joseph Holley and Vice-chairman Mark Oppenhein,
Members Donna Hill, Delbert Holley, Lydia Johnson, and Lydell Oppenhein

Solar Energy Park

DOE/Te-Moak Grant EE0005632

Tribal Energy Program Review

March 26, 2014

Presented By:

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The Battle Mountain Colony (Band)

- Descendants of the Tosawihi (white knife) People

- One of Four Distinct Colonies, Te-Moak Tribe of Western Shoshone Indians

- 683.3 Acre Reservation Established by Executive order on June 18, 1917 – two parcels located in Lander County, Nevada

- Battle Mountain Colony Charter Ratified on December 12, 1938

- 6.25 Acres Added by an Act of Congress on August 21, 1967

Project Overview and Vision

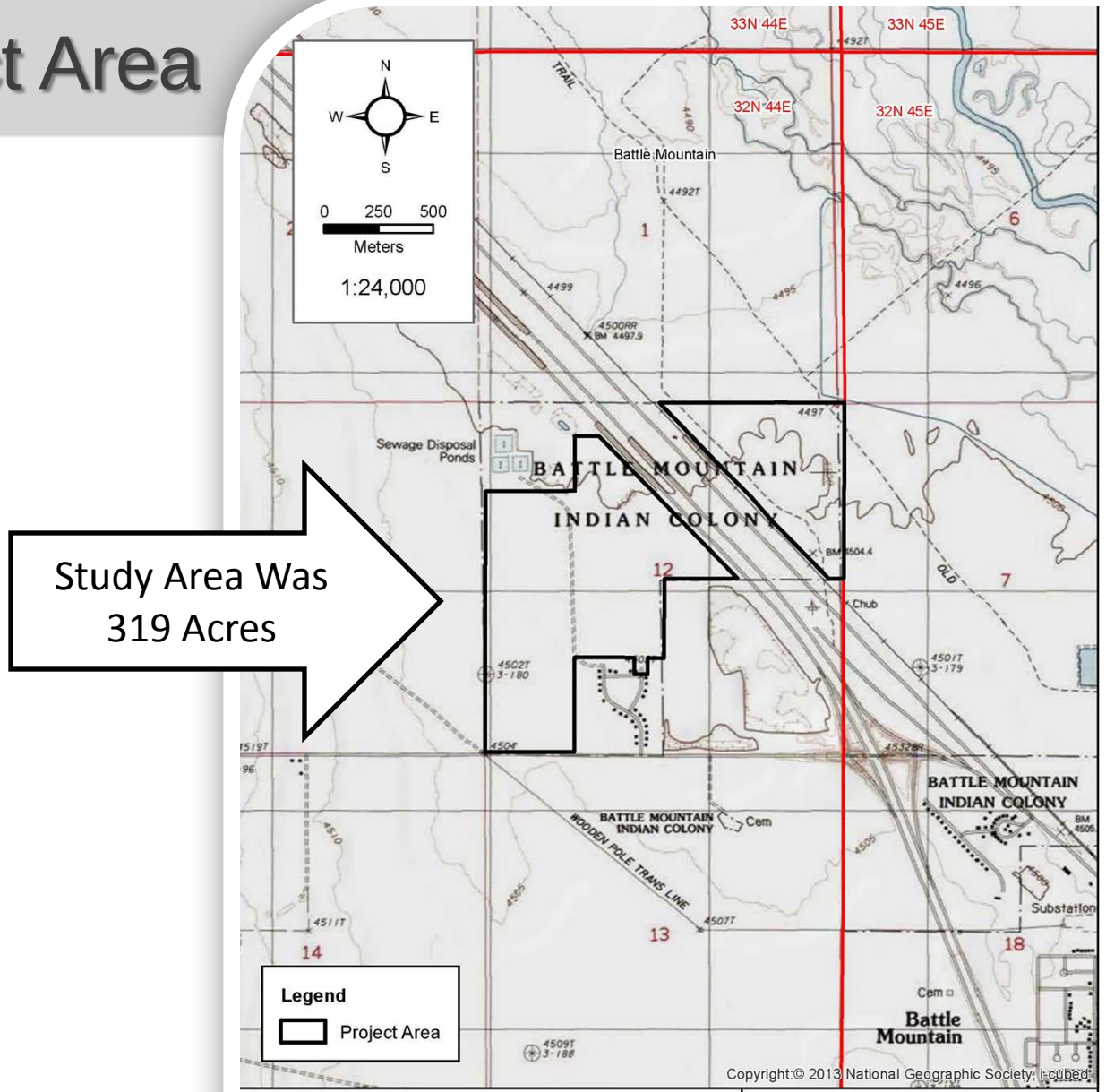
- Can a solar project on Tribal land be a revenue source and create training and employment opportunities for members?

- To answer this question we performed this solar feasibility study to help us determine if we should proceed with a solar project.

Project Team

- Department of Energy EERE Tribal Energy Program
  - Award
- Battle Mountain Band
  - Project Direction
  - Fredricks, Peebles and Morgan LLP
    - Legal
  - BEC Environmental, Inc.
    - Project Management
    - Millennium Energy, LLC
      - Technical & Economic
    - Kautz Environmental Consultants, Inc.
      - Cultural

Project Area



Study Area Was 319 Acres

Project Area Map
Base Map: USGS 7.5' *Battle Mountain, Nev.*, P. E. 1985.
T.32N., R.44E., Section 12, Datum (NAD 83, meters)
Project: Te-Moak Solar Project (KEC-890)

kautz ENVIRONMENTAL CONSULTANTS, INC.

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Progress Toward a Solar Lease

Completed

- ✓**Community Workshop**
- ✓**Collected and Analyzed Data**
- ✓**Evaluated Barriers**
- ✓**Identified Opportunities**
- ✓**Evaluated Technologies**
- ✓**Evaluated Business Structures**
- ✓**Conducted Legal Analysis**
- ✓**Council Decided to Proceed with a Solicitation**

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Class III Cultural Impact Survey

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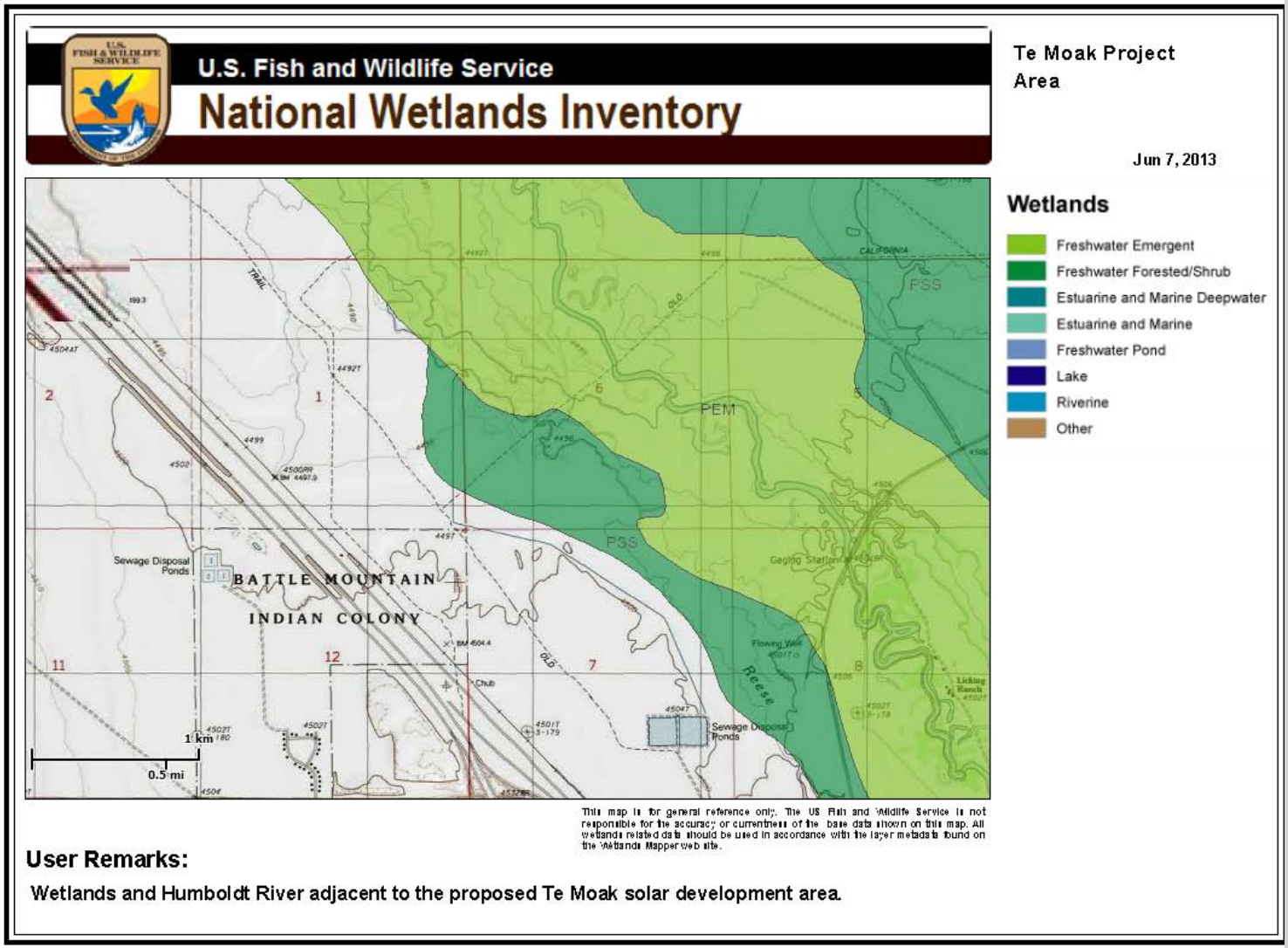
Environmental Impacts – One Example



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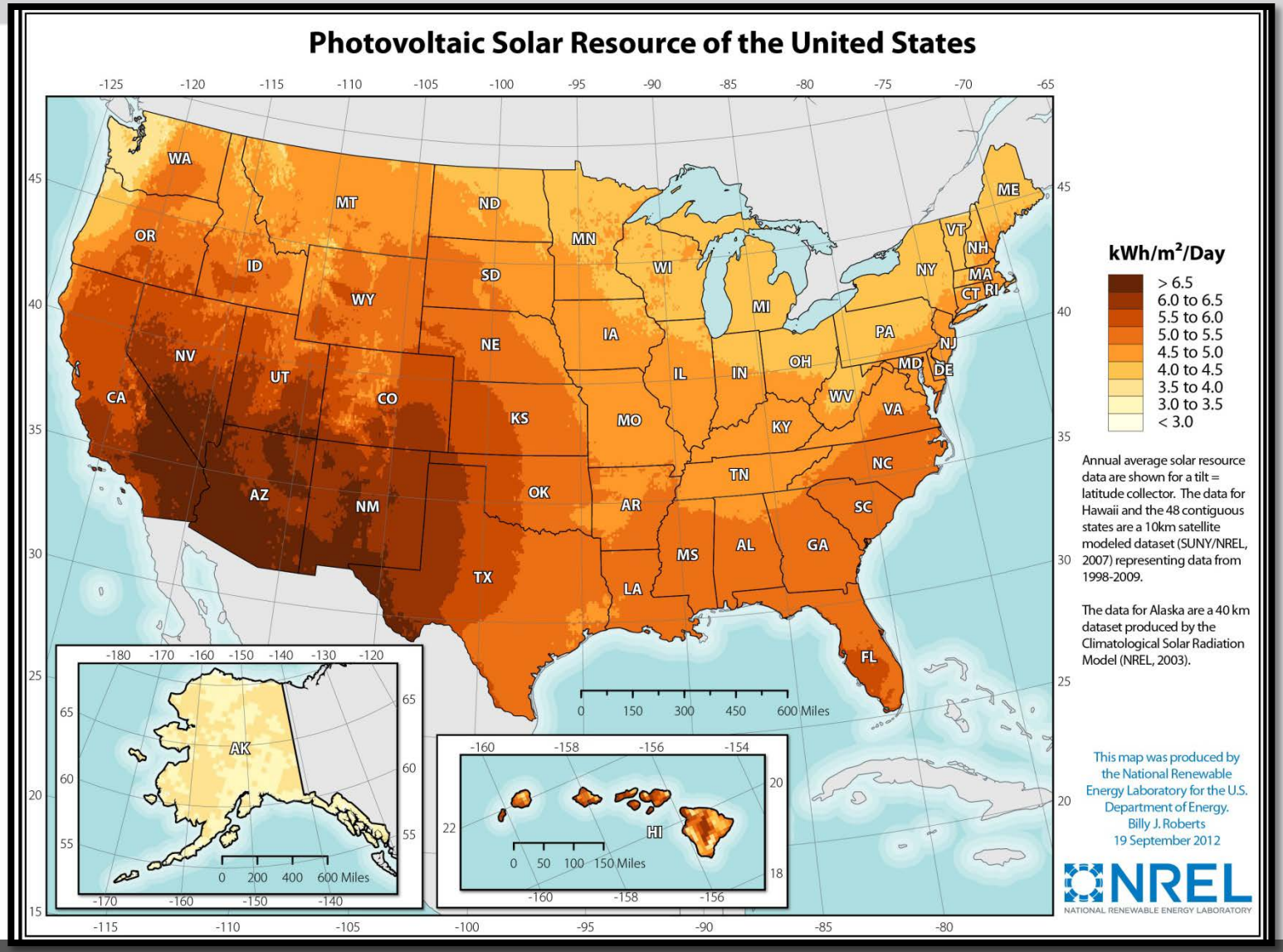
Solar Resource



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Interconnection Opportunities

Photo Courtesy of Joe Bourg, Millennium Energy

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Technology – Photovoltaic

Warren Gretz (NREL)

Photo Courtesy of Joe Bourg, Millennium Energy

Feasibility Study Results

Simple Land Lease

- Returns were not affected by technology
- Least risk but lowest return

Land Lease with Royalty

- Marginally better returns from single-axis tracking
- Band would receive rent and royalties for power generated
- Lower rent would be offset by royalties in later years

Land Lease with Buyout

- Significantly higher returns from single-axis tracking
- Most risk but greatest potential return

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Legal Analysis

- Coordinate the length of the lease with laws governing leasing of tribal lands
- New leasing regulations promote economic development of tribal lands and recognize role of tribal leadership in projects
- DOI likely will require NEPA and Section 106 Cultural Impact assessment
- Tribal business entities can provide additional opportunities but are not necessary to oversee a lease

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Recommendations

- Establish minimum land lease and royalty rates in the Request for Proposal (RFP)
- Increase available acreage to generate higher revenues for lease-only options
- Give preference to single-axis tracking for a royalty payment or buyout scenario
- Utilize legal counsel throughout the RFP process
- Ensure consistent comparison among proposals, but allow bidders flexibility and creativity

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Progress Toward a Solar Lease

Completed (Phases 1-3)	What Is Next? (Phase 4)
✓Engaged the Colony in the Project ✓Collected and Analyzed Data ✓Evaluated Barriers ✓Identified Opportunities ✓Reviewed Technologies ✓Reviewed Business Structures ✓Conducted Legal Analysis ✓Recommended Technologies and Operating Structures for a 5 MW Solar Lease	• Prepare Solicitation • Conduct Solicitation • Negotiate and Execute a Solar Lease with Buyout Opportunity

Ten Issues to Consider (Nahai, 2013)

Before Pursuing Renewable Energy Project, Consider:

1. **Resource**
2. **Market**
3. **Transmission & Distribution**
4. **Technology**
5. **Financing**
6. **Compensation**
7. **Approvals**
8. **Team**
9. **Employment & Training**
10. **Outreach Plan**

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Lessons Learned & Best Practices

- Always check the background and references of anyone who offers to write a grant for you.
- Be prepared to be involved every step of the way.
- Get training from DOE on how to track and submit reimbursements.
- Get grant writing training.

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Questions?

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Thank You

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