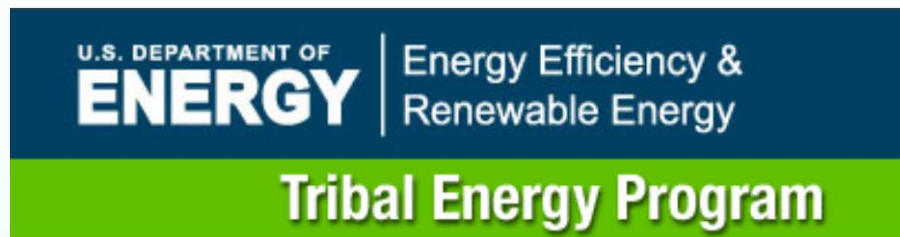




Pascua Yaqui Tribe



DOE Solar Energy Feasibility and Deployment Study

Pascua Yaqui Tribe

- The reservation is located in Tucson, Arizona
- Reservation population approximately 4,000
- Total tribal enrollment 18,000



History

- In 1978, the Pascua Yaqui Tribe of Arizona became federally recognized and in 1994 the designation was converted to that of a historical tribe. Today, Pascua Pueblo consists of 1,820 acres of trust land with an additional 436.18 acres of fee land surrounding the reservation.
- The Tribe also owns Tortuga Ranch, fee land of 6,455.59 acres west of Tucson.

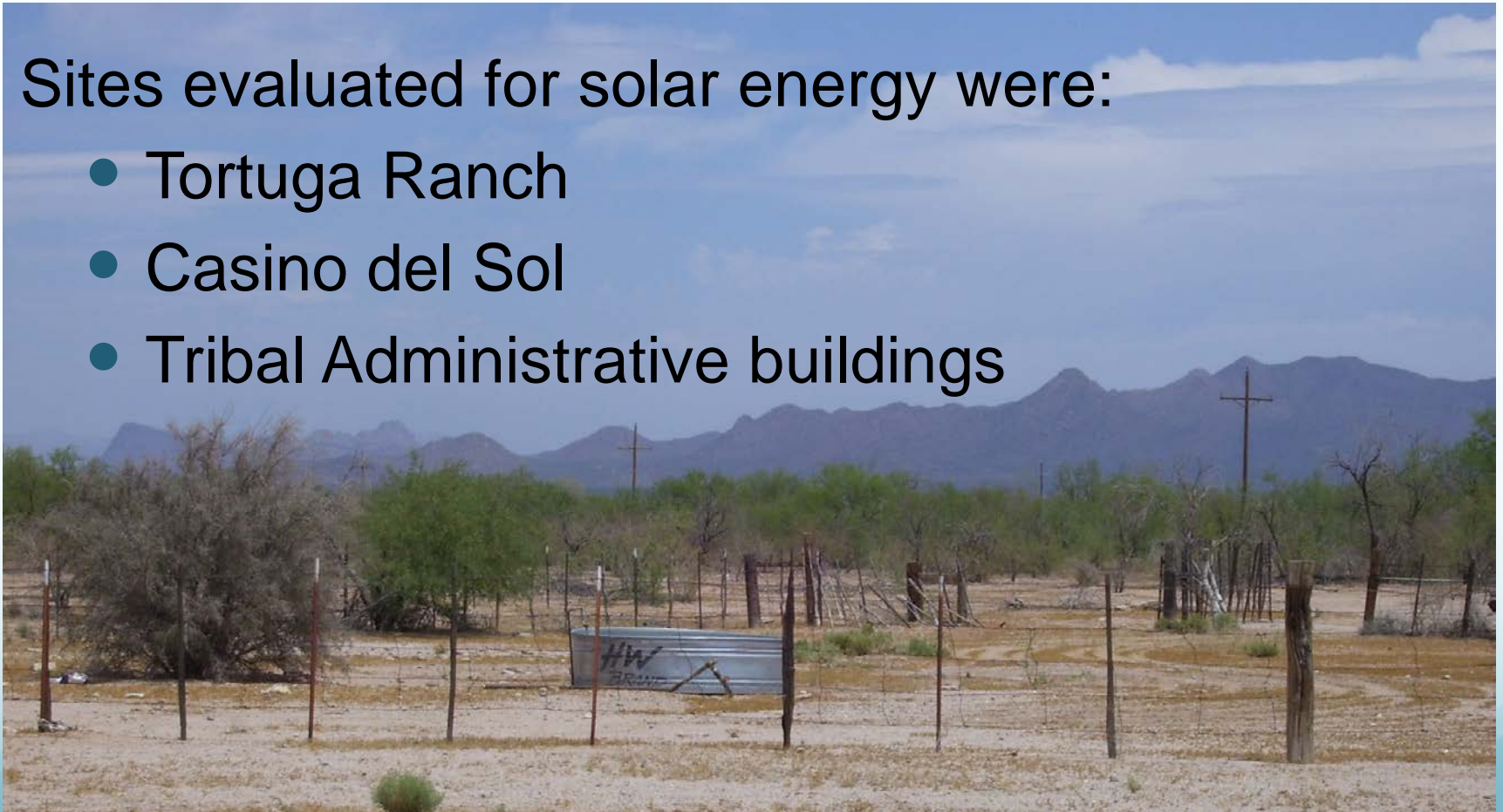
Feasibility & Deployment Study

- This study was initiated in 2013
- Red Mountain Energy Partners were hired to complete study

Project Area

Sites evaluated for solar energy were:

- Tortuga Ranch
- Casino del Sol
- Tribal Administrative buildings



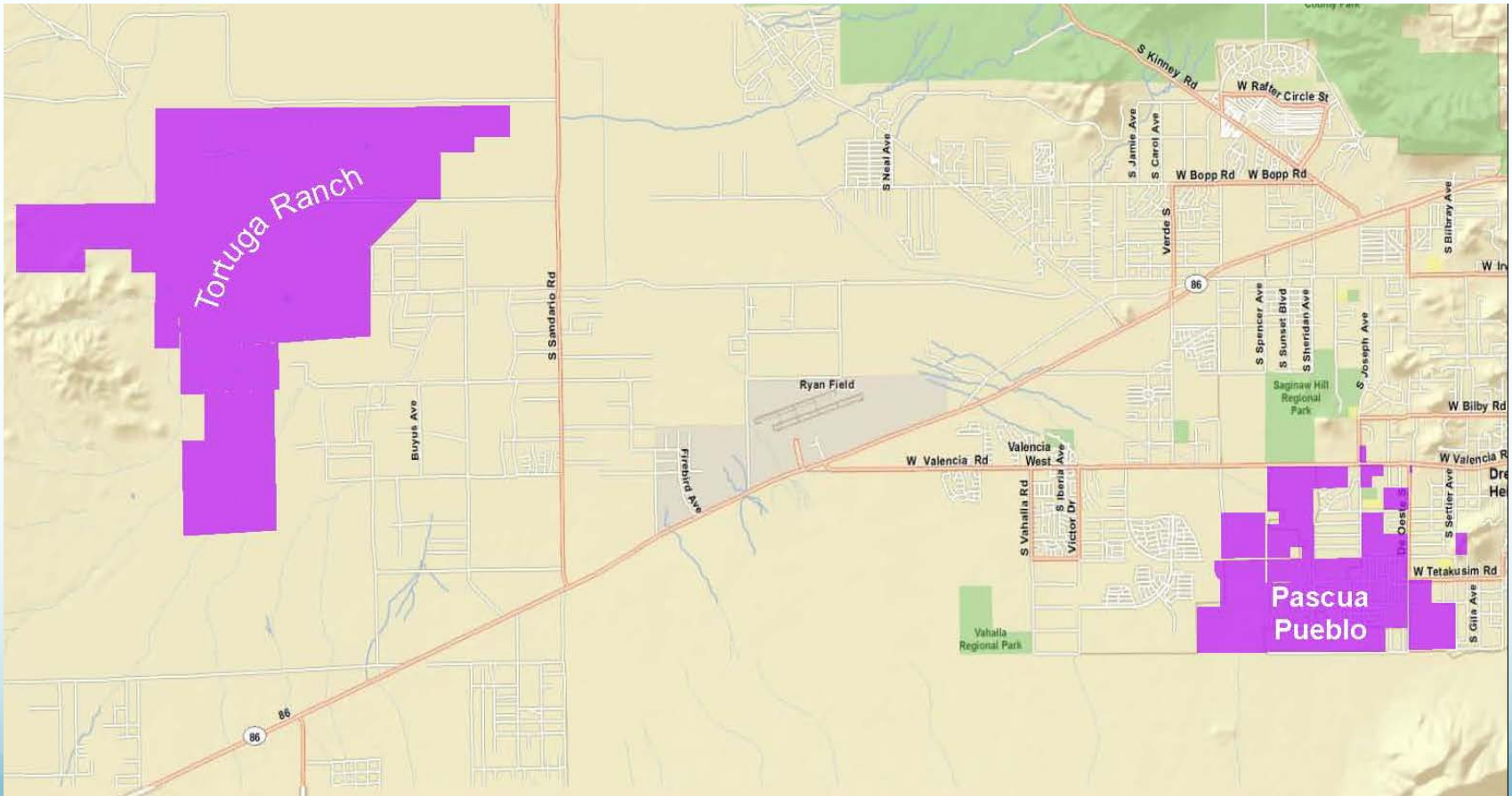
Casino del Sol



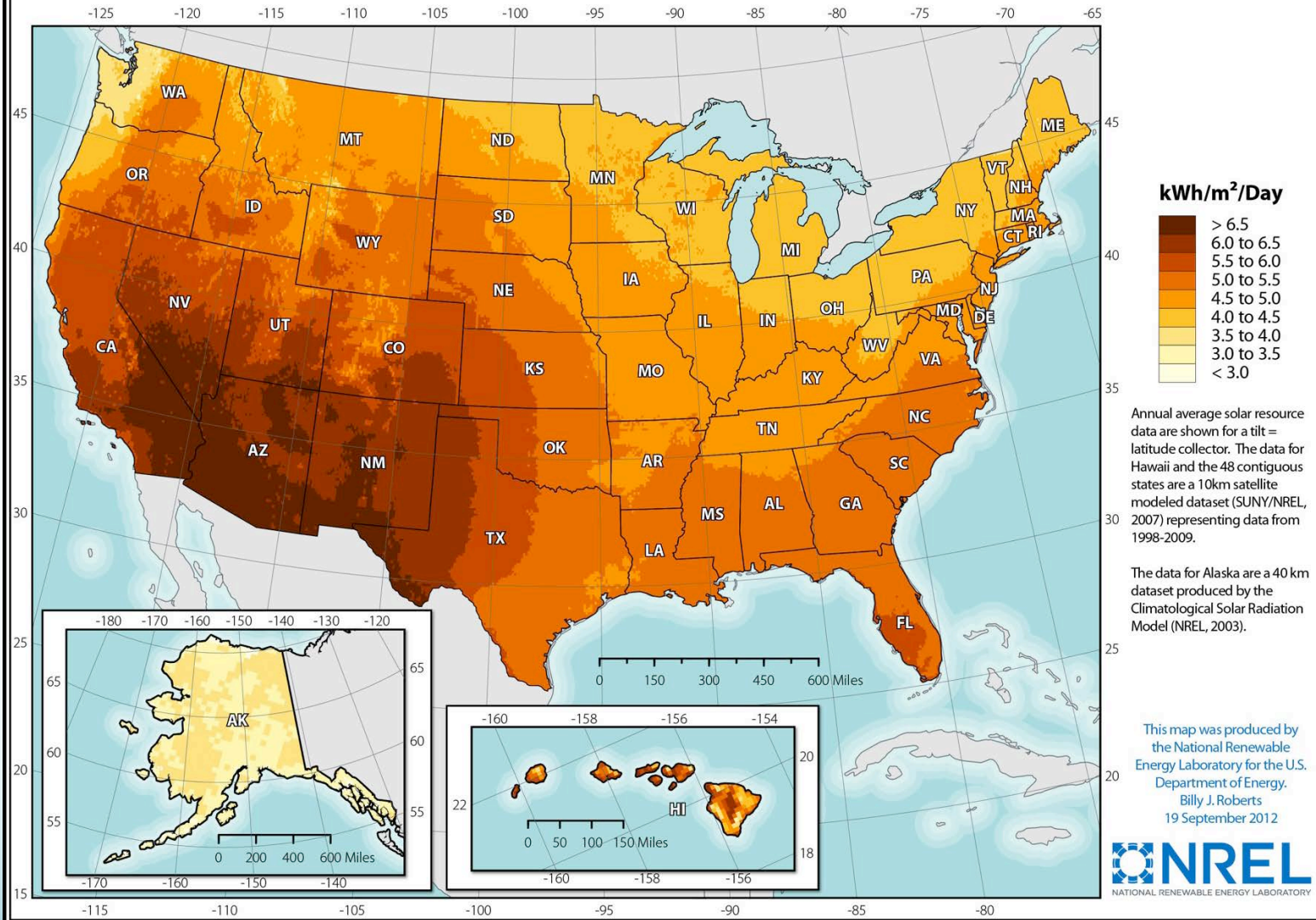
Casino Parking Lot



PYT Reservation & Tortuga Ranch



Photovoltaic Solar Resource of the United States



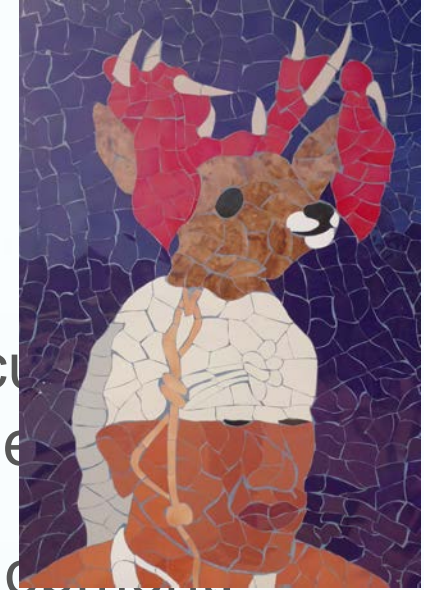
DOE START Grant

- Strategic Technical Assistance Response Team Grant, November 2012
 - Three day facilitated community workshop
 - NREL
- Developed an Strategic Plan to guide the development of a Tribal Energy Plan



Planning Process

- Looked at past accomplishments, current conditions, and future goals of the tribe
- Created a vision for future energy development, including solar, by the year 2023
- Created an Energy Task force to help drive future energy projects



Energy Plan

- Comprehensive energy plan to include the following in regards to future development:
 - Energy conservation
 - Alternative energy
 - Energy related building codes
 - Increase energy self-sufficiency

TA Outcomes

- Provided a framework for addressing future energy projects
- NREL staff provided specific technical data and resources
- Established partners and key players in the development of future energy projects: staff (government & casino), local energy provider (TRICO), community leaders, tribal council
- Community focus group developed strategies to present future energy projects to the community and to Tribal Council

Community Input

- Approximately 100 surveys were completed by community members demonstrating overwhelming community support for alternative energy projects



Results of Study

Red Mountain's study provides useful information on identified sites for solar development including:

- Potential production
- Estimated cost
- Energy users, Tribe or other

Lessons Learned

- Solar is becoming more affordable
- Most feasible projects would produce energy to offset current energy usage by tribal government or enterprises
- Solar projects may need to be phased in

Next Steps

- Currently working to gather more information from local contractors and solar energy developers to present energy opportunities to tribal council and develop an RFP
- Convening a sector strategy meeting in April to promote further alternative energy development in the region



Acknowledgments

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 - Red Mountain Energy Partners
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For support and collaboration

Questions?

Maria Arvayo

Community & Economic Development Services Director

Pascua Yaqui Tribe

Tucson, AZ

maria.arvayo@pascuayaqui-nsn.gov

520-879-6316