



DOE Office of Indian Energy: Leveraging Tribal Resources to Support Department of Defense Strategic Energy Goals

The U.S. Department of Defense (DoD) has announced several strategic energy goals including obtaining 25% of its energy from renewable energy and promoting energy security. Indian Tribes are uniquely situated to help the DoD achieve these goals. According to DoD, there are more than 50 Tribes located adjacent to or near military installations.

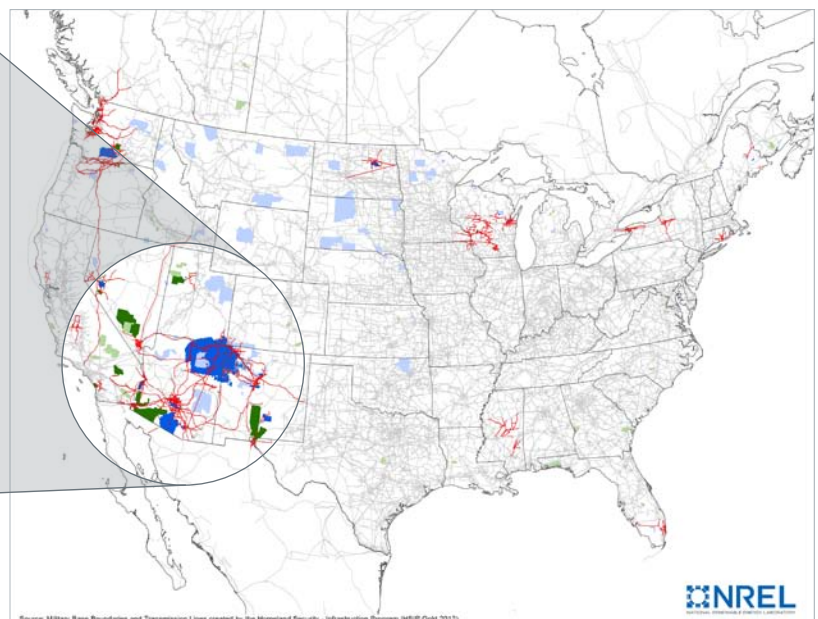
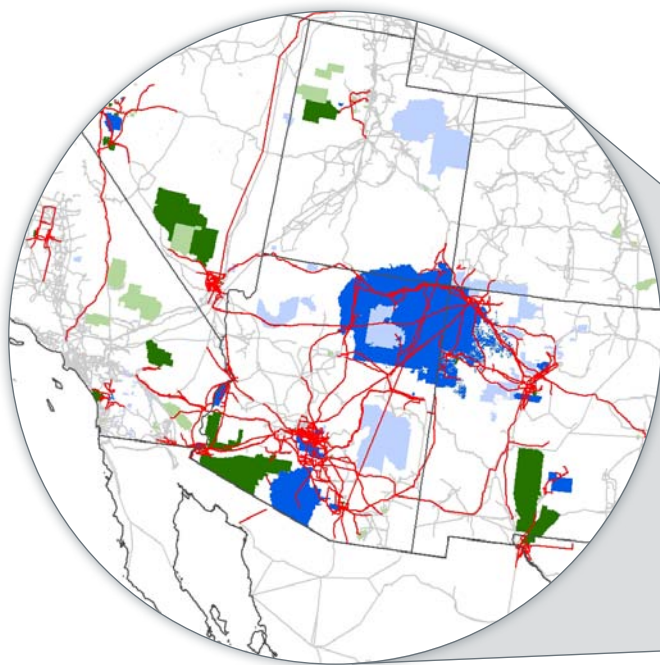
The DOE Office of Indian Energy has begun exploring how to leverage the considerable renewable energy resources in Indian Country to help the DoD achieve some of its strategic energy goals, including educating tribal leaders and military leaders on energy development partnerships on Indian lands, analyzing and mapping the most promising partnership opportunities, and working with the National Renewable Energy Laboratory (NREL) to provide technical assistance to Tribes on working with local military installations. NREL estimates that Indian lands have the following amounts of renewable energy generation potential:

Tribal Technology Generation Potential ¹	Megawatt Hours (MWh)
Wind	26,059,675
Solar: Photovoltaic (PV) (Utility-Scale, Rural)	4,372,566,050
Solar: PV (Utility-Scale, Urban)	8,432,273
Solar: Concentrating Solar Power	4,293,336,157
Geothermal: Enhanced Geothermal System	2,007,195,000
Geothermal: Hydrothermal	1,805,368
Biomass: Solid	675,136
Biomass: Gaseous	592,238
Hydropower	2,605,585

¹ Based on methodology from Lopez, A. et al. (2012). Forthcoming report to be published by the National Renewable Energy Laboratory.

Analysis assumes development of single technology across all available land.

Of the Tribes identified as being located in close proximity to military bases, 54% are located in the West, 18% in the Pacific Northwest, and 12% in New England and New York.



- Transmission Lines
- Military Bases
- Tribal Lands

Source: Military Base Boundaries and Transmission Lines created by the Homeland Security - Infrastructure Program (HSIP Grid) 2012.



Tribes Located Near Military Bases

There are 53 reservations located within 10 miles of 65 military installations. There are 20 reservations located near multiple bases. For example, the Mashantucket Pequot reservation is within 10 miles of the Coast Guard Academy and a Naval Submarine Base.

Tribes	Military Bases
Arizona	
Cocopah	Barry M Goldwater Air Force Range USMC Air Station-Yuma
Colorado River	Yuma Proving Ground
Fort Yuma (Quechan)	Barry M Goldwater Air Force Range National Guard Rifle Range USMC Air Station-Yuma Yuma Proving Ground
Gila Bend	Barry M Goldwater Air Force Range
Gila River	Casa Grande Military Reservation Florence Military Reservation Luke Air Force Base
Pascua Yaqui**	Davis-Monthan Air Force Base
Salt River	Papago Park Military Reservation
San Xavier	Davis-Monthan Air Force Base Sahuarita Air Force Range
Tohono O'odham*	Barry M Goldwater Air Force Range Casa Grande Military Reservation Florence Military Reservation
British Columbia	
Nooksack	CFB Esquimalt-Matsqui
California	
Manchester (Point Arena) Rancheria	Point Arena Airforce Station
Middletown Rancheria	
Pala	Camp Pendleton Marine Corps Base
Pechanga	Camp Pendleton Marine Corps Base
Santa Rosa Rancheria	Lemoore Naval Air Station
Twenty-Nine Palms	Marine Corps AGCC Twentynine Palms
Connecticut	
Mashantucket Pequot	New London Naval Submarine Base United States Coast Guard Academy S
Florida	
Hollywood	Navsea Warfare Center Fort Lauderdale U.S. Coast Guard Station Fort Lauderdale
Seminole Homestead Trust Lands	Navsea Warfare Center Fort Lauderdale U.S. Coast Guard Station Fort Lauderdale

Tribes	Military Bases
Maine	
Passamaquoddy Tribe of Indian Township**	Columbia Air Force Station
Mississippi	
Mississippi Choctaw	Navy Outlying Field Joe Williams
Nevada	
Carson Colony	Military Department Complex ANG
Fallon	Naval Air Station Fallon
Fallon Colony	Fallon Naval Air Station Bombing Range Naval Air Station Fallon
Las Vegas Colony	Clark County Army National Guard Nellis Air Force Base Nellis Air Force Range Nellis Small Arms Range
Walker River*	Fallon Naval Air Station Bombing Range Hawthorne Army Depot U.S. Naval Reservation-Target Area
Washoe	Military Department Complex ANG
New Mexico	
Cochiti Pueblo	New Mexico National Guard Armory
Isleta Pueblo	Kirtland Air Force Base
Mescalero Apache	White Sands Missile Range
Navajo*	Fort Wingate Military Reservation
Sandia Pueblo	Kirtland Air Force Base
Santo Domingo Pueblo	New Mexico National Guard Armory
Ysleta Del Sur Pueblo	Fort Bliss
Zuni Pueblo**	Fort Wingate Military Reservation
New York	
Oneida (East)	Stockbridge Research Facility Verona Research Facility
Onondaga	Hancock Field Ang Base USMC Reserve Training Center
Tuscarora	Niagara Falls Air Reserve Station
North Dakota	
Devils Lake Sioux	Camp Grafton
Ontario	
Tuscarora	Department of National Defense
Rhode Island	
Narragansett	Fort Nathaniel Greene

Tribes	Military Bases
Texas	
Ysleta Del Sur Pueblo	Fort Bliss
Utah	
Skull Valley	Dugway Proving Grounds
Washington	
Muckleshoot	Kent Army National Guard Armory
Nisqually*	Camp Murray National Guard Fort Lewis Military Reservation McChord Air Force Base
Port Gamble	Bangor Naval Reservation Naval Undersea Engineering Station U.S. Naval Reservation
Port Madison	Bangor Naval Reservation Camp Mckean Naval Recreation Camp Camp Wesley Harris Naval Reserve Fort Lawton Jackson Park Naval Reservation Middle Point And Orchard Point Military Reservation Naval Undersea Engineering Station Puget Sound Naval Shipyard U.S. Naval Reservation
Puyallup	Camp Murray National Guard Fort Lewis Military Reservation Kent Army National Guard Armory McChord Air Force Base
Swinomish	Whidbey Island Naval Air Station
Tulalip	U.S. Lighthouse Reservation U.S. Naval Station Everett
Yakama	Boardman Bombing Range
Yakama	Yakima Firing Center
Wisconsin	
Ho-Chunk	Badger Army Ammunition Plant Camp Williams Fort McCoy Madison Truax Field Army National Guard
Oneida (West)	Denis J Murphy Army Reserve



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Analysis conducted by the U.S. Department of Energy National Renewable Energy Laboratory using the 2012 Homeland Security Infrastructure Protection geospatial dataset.

*Tribe located adjacent to a military base. **DOE Office of Indian Energy Strategic Technical Assistance Response Team (START) Project