

Summary of tribal renewable energy installed capacity and generation potential by technology.

Technology	Tribal Capacity Potential <sup>1</sup> (MW)	Tribal Generation Potential <sup>1</sup> (MWh)	% of National Capacity	% of National Generation
Wind (100m ht, >30% GCF)	408,690	1,544,174,253	3.2%	3.3%
Solar PV (Utility-scale, Rural)	4,445,369	9,259,278,339	3.1%	3.4%
Solar PV (Utility-scale, Urban)	7,224	15,372,684	0.6%	0.7%
Solar CSP	1,930,248	6,500,916,429	5.1%	5.4%
Geothermal (EGS)	763,252	6,017,487,000	19.2%	19.2%
Geothermal (Hydrothermal)	32	252,000	0.4%	0.4%
Biomass (Solid)	551	4,340,642	1.1%	1.1%
Biomass (Gaseous)	85	673,465	0.8%	0.8%
Hydropower <sup>2</sup>	844	7,390,196	3.2%	3.2%
Total <sup>3</sup>	7,556,294	23,349,885,006	3.8%	4.9%

<sup>1</sup> Technical potential generated using assumptions and exclusions outlined in NREL's draft technical report, "U.S. Renewable Energy Technical Potentials: A GIS-based Analysis" (Lopez et. al., draft version April, 2011)

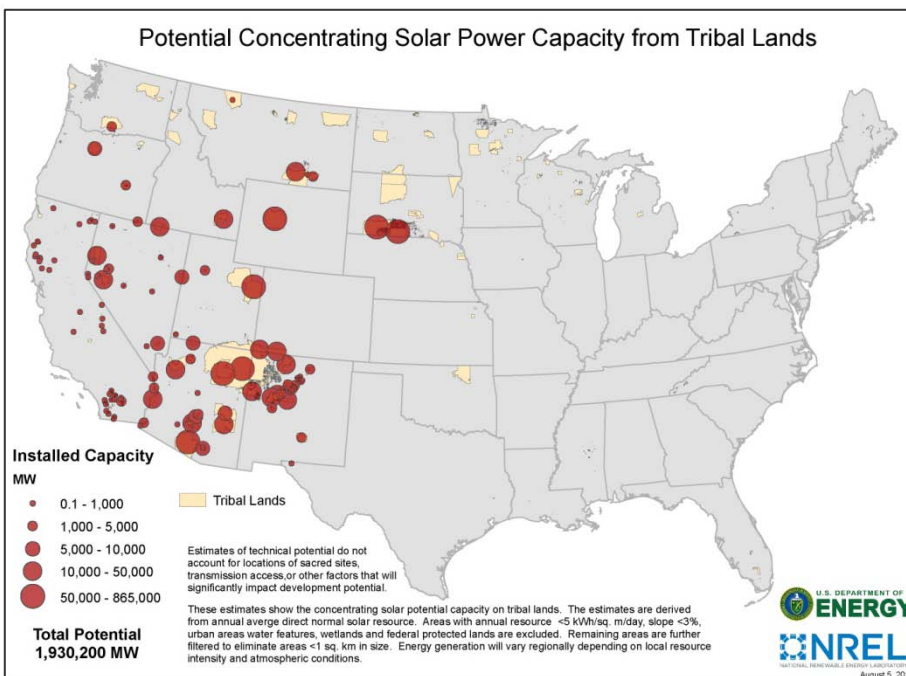
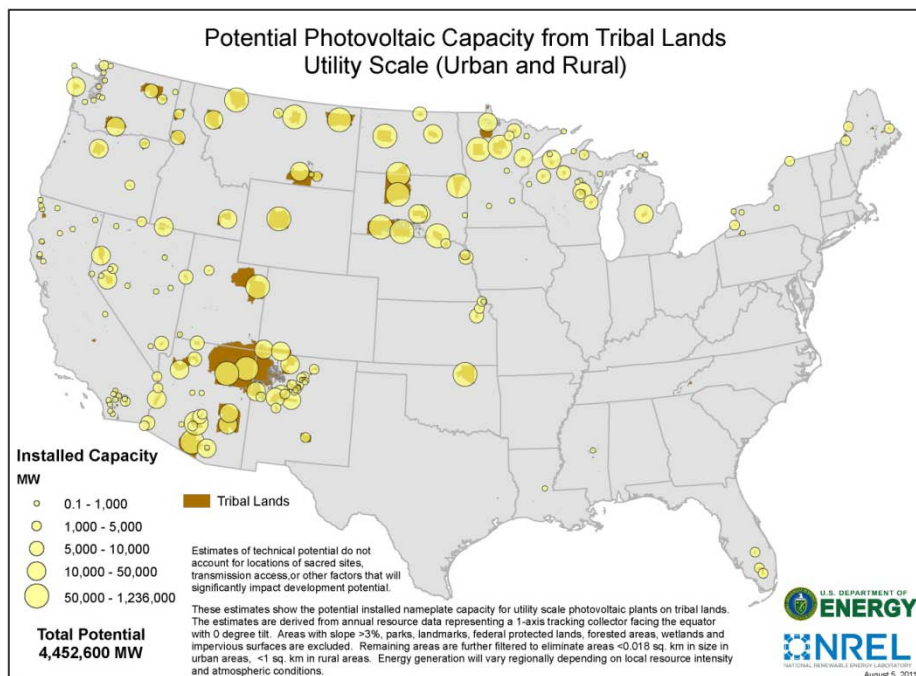
<sup>2</sup> Information was not available to calculate installed nameplate capacity for hydropower, so capacity shown is average capacity (Mwa)

<sup>3</sup> Technical potential calculated for each technology individually, and does not account for overlap (i.e. the same land area may be identified with potential for wind and solar, and would be counted twice in the total). Some technologies may be compatible with mutual development.

**Tribal Lands contain  
~4% of the U.S.  
renewable energy  
potential**

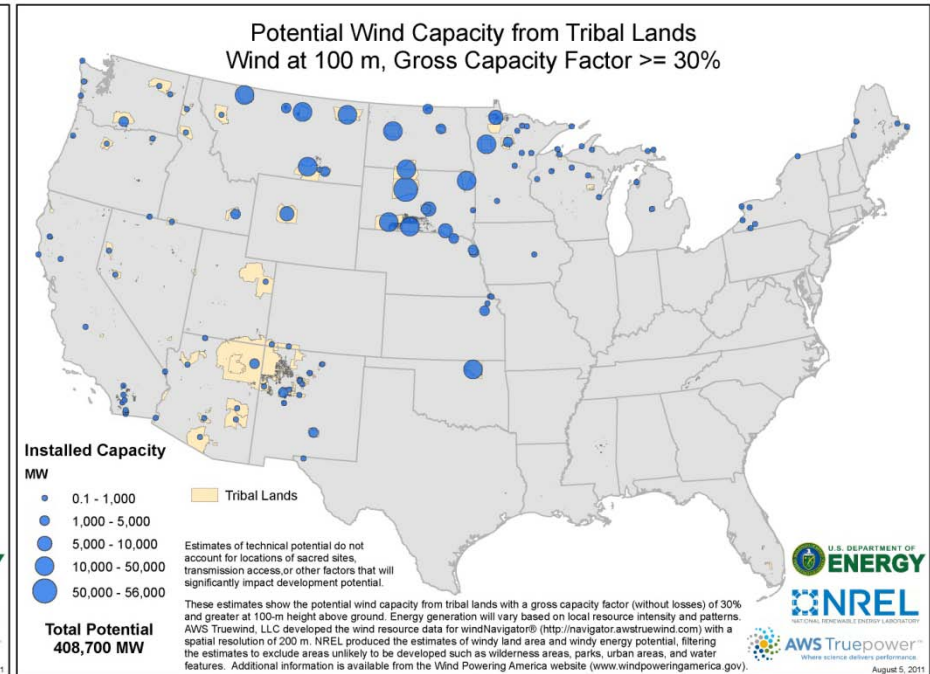
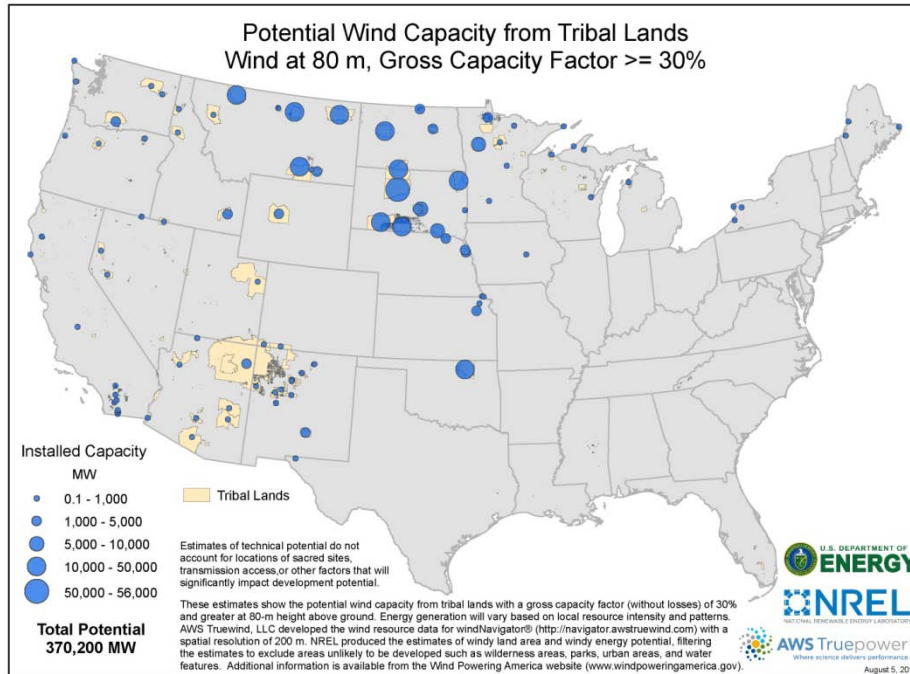
- **Varies significantly by technology**
- **Generation values reflect capacity factor of intermittent resources**

## Solar Electric Potential on Tribal Lands could produce ~3 times the Total U.S. Nameplate Capacity (1,121,700 MW in 2009)



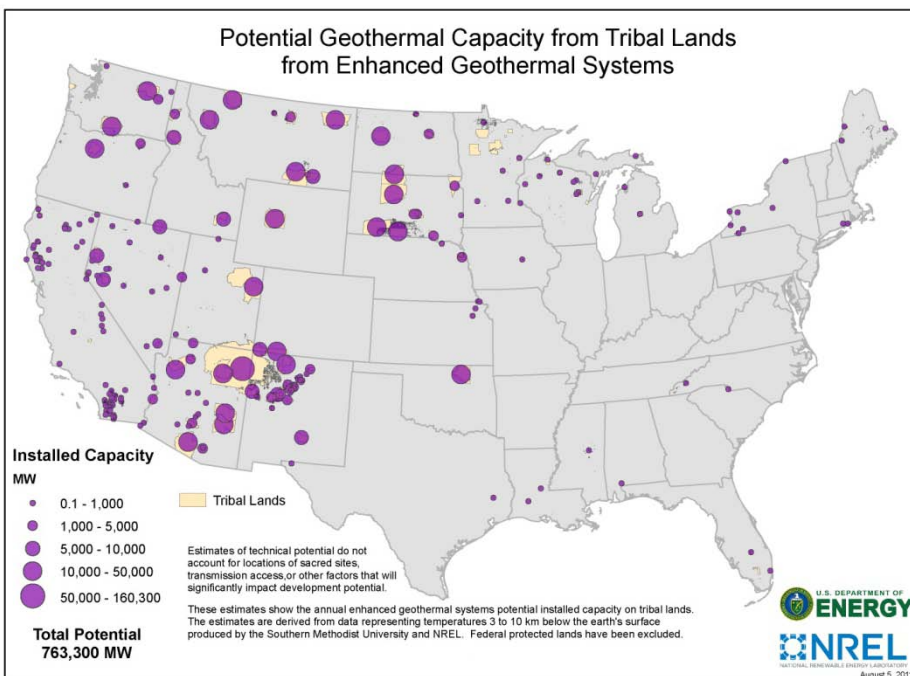
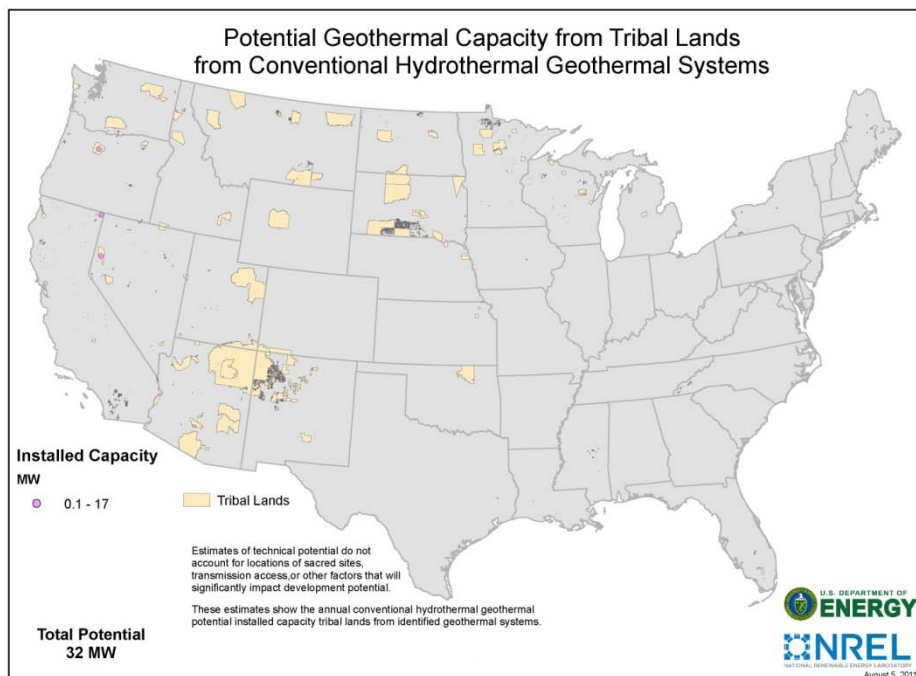
## Solar Electric Potential Capacity of 4.5 Million MW on Indian Lands (PV) or 2 Million MW (CSP)

# Wind Potential on Tribal Lands could produce about 36% of Total U.S. Nameplate Capacity (1,121,700 MW in 2009)



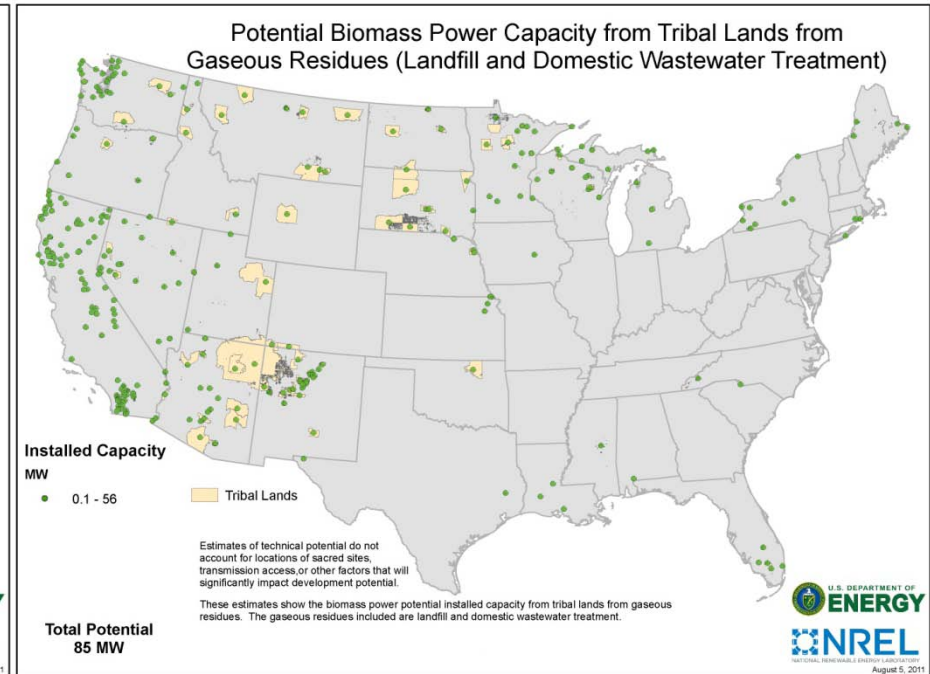
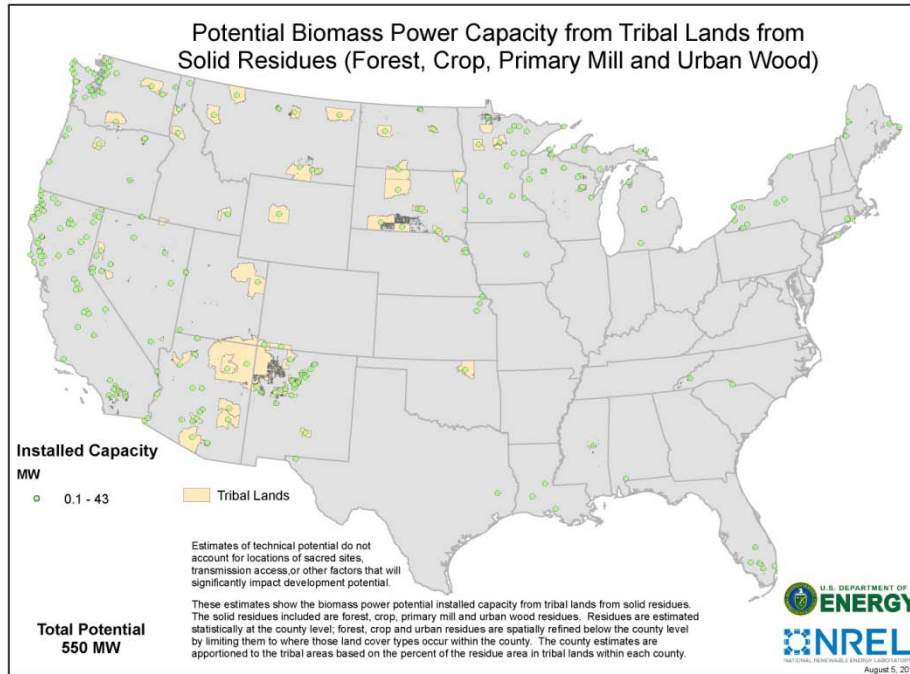
## Wind potential installed capacity of 370,200 MW on Indian Lands (80m ht) or 408,700 MW (100m ht)

## Geothermal Potential on Tribal Lands could produce ~68% the Total U.S. Nameplate Capacity (1,121,700 MW in 2009)



## Geothermal potential capacity of 32 MW (conventional) and 763,300 MW (EGS) on Indian Lands

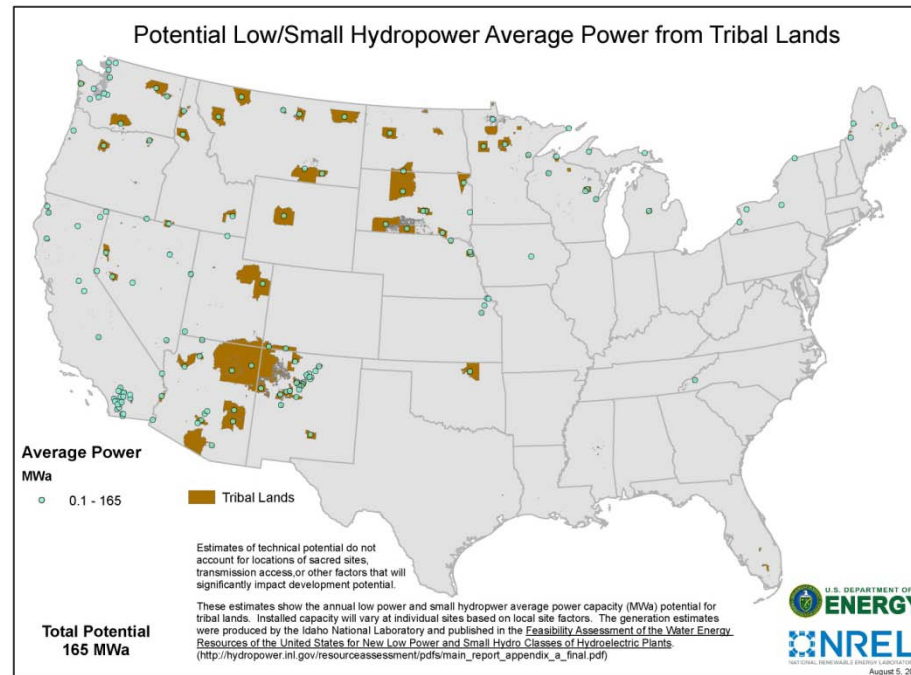
# Biomass Potential on Tribal Lands could produce <1% of Total U.S. Nameplate Capacity (1,121,700 MW in 2009)



## Biomass potential capacity of 550 MW from solid residues and 85 MW from gaseous residues on Indian Lands



## Hydropower Potential on Tribal Lands could produce <1% of Total U.S. Nameplate Capacity (1,121,700 MW in 2009)



## Hydropower average power potential of 165 MWa from low/small hydropower sources on Indian Lands