

Jim Ramey, The Wilderness Society
Lindsay Bourgoine, Protect Our Winters
October 2016







## Interactive Polling



#### How to participate in poll questions

- 1) text the message TWSCO to the number 22333
- 2) send a second text indicating your answer to the question (A, B, C...)
- 3) at the end of tonight's event, send a final text with the message LEAVE so that you logout of the poll

## Your poll will show here

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## Snowboarding



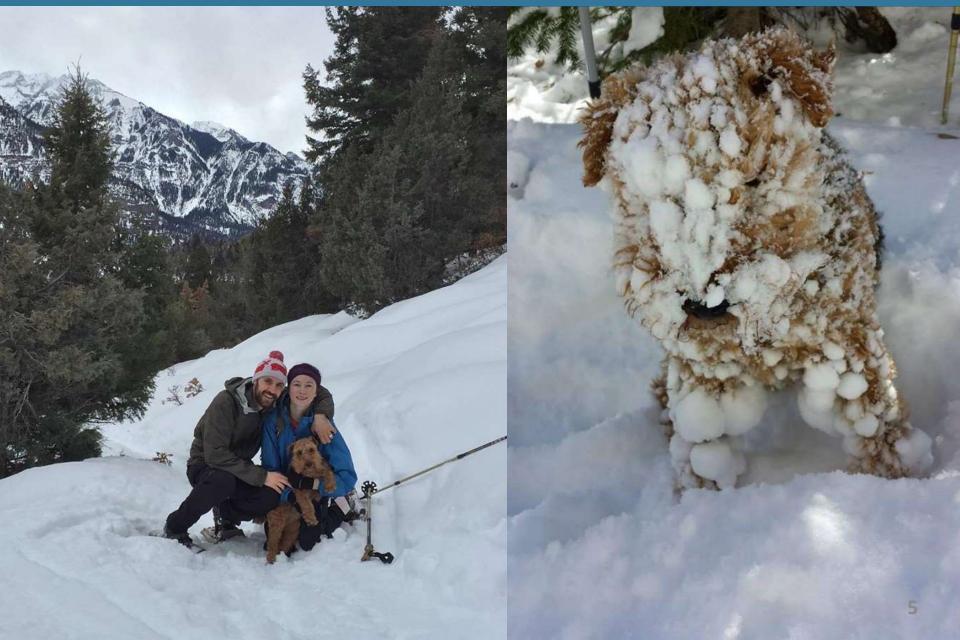




## Also, Snowshoeing

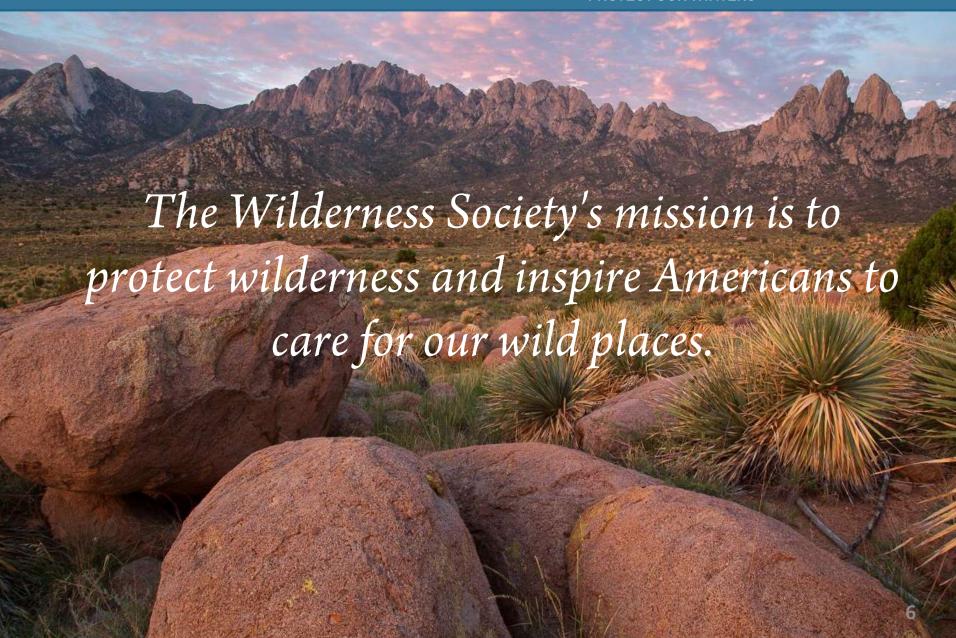


















Founded in 1935, The Wilderness Society has led the effort to permanently protect 109 million acres of wilderness and to ensure sound management of our shared national lands.





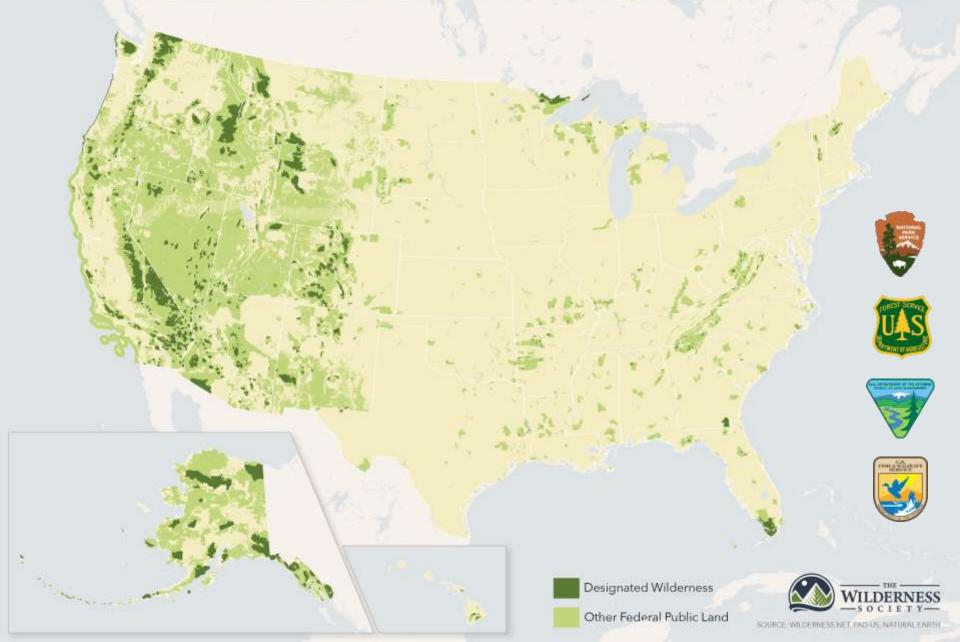
ACRES PERMANENTLY
PROTECTED, including more
than 1 million acres designated
as national monuments and
275,000 acres as wilderness.





**6.5 MILLION** people engaged through Facebook, Twitter and Instagram in 2015

## PUBLIC LANDS & WILDERNESS



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Fueling Climate Change: Our Broken Public Lands Energy Programs

## Energy Development on Public Lands





- 1. Coal
- 2. Oil
- 3. Natural Gas
- 4. Solar
- 5. Wind
- 6. Geothermal

Credits: Kentucky Photo File, flickr; Mason Cummings; Black Rock Solar, flickr; Credit Daniel Hoherd, flickr; U.S. Dept. of Energy.



#### BLM: Oil & Gas Above All Else





## NO EXIT:



How much land in your state is on the highway to oil & gas development?

## 

A staggering 90 % of public lands and minerals managed by the BLM are open to oil and gas leasing

### Natural Gas Leaks





## Flaring









#### Natural Gas Pollution Headlines





Study finds oil and gas industry largest contributor to 'hot spot'

Aug. 15, 2016



Air impacts from Utah projects hit BLM radar screen

Oct. 3, 2016

## THE DENVER POST

Ground-level ozone pollution alert issued for Denver, Front Range

Aug. 16, 2016

#### Coal from Public Lands







**ABOUT** 

41%

of American coal is produced on public lands.

**OVER** 

85%

of that comes from the Powder River Basin in Montana and Wyoming.

Photo: The Powder River Basin, Ecoflight

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#### Powder River Basin in 1984





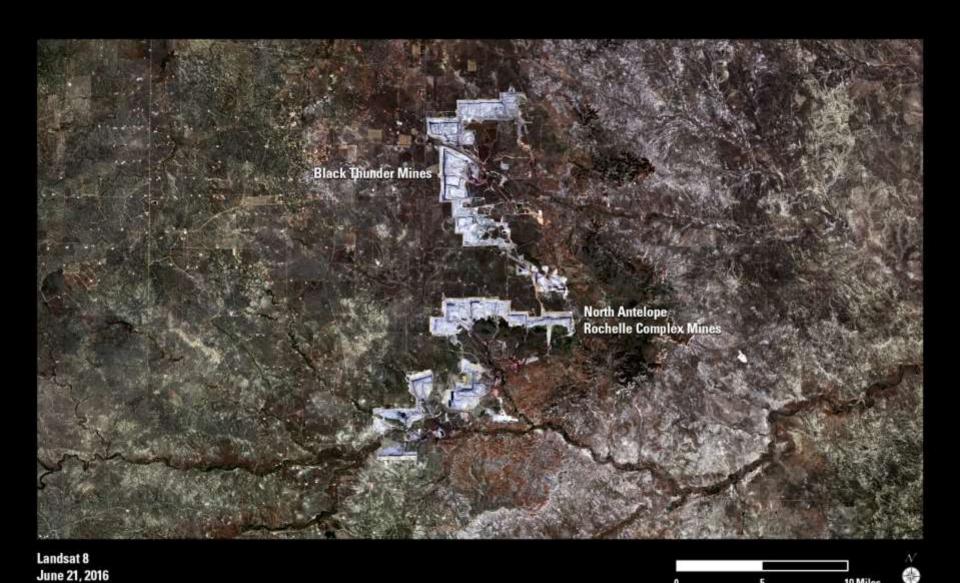


Credit: NASA, USGS.

#### Powder River Basin in 2016







## Public Coal Costs Less than a Big Mac







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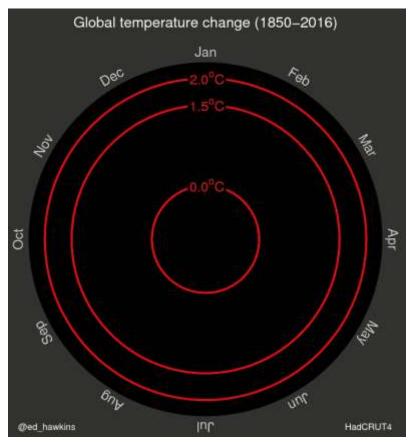
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## Breaking News: Climate is Changing









## We're Seeing the Impacts











## Climate Impacts on Winter & Outdoor Recreation













PROTECT OUR WINTERS

#### A POW OVERVIEW



130,000+ supporters globally

Chapters in:

- United States
- Canada
- Europe
- Australia

Partners:

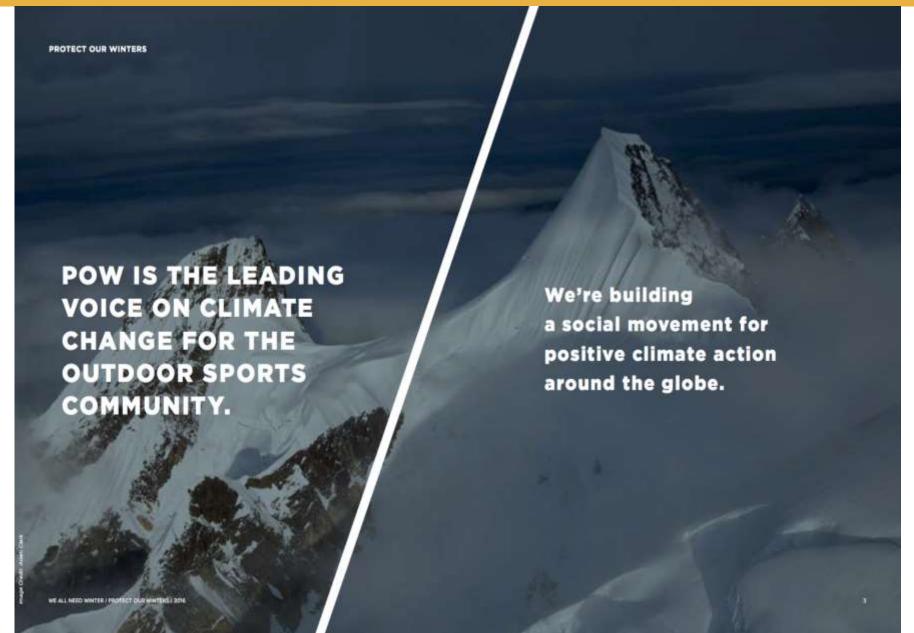






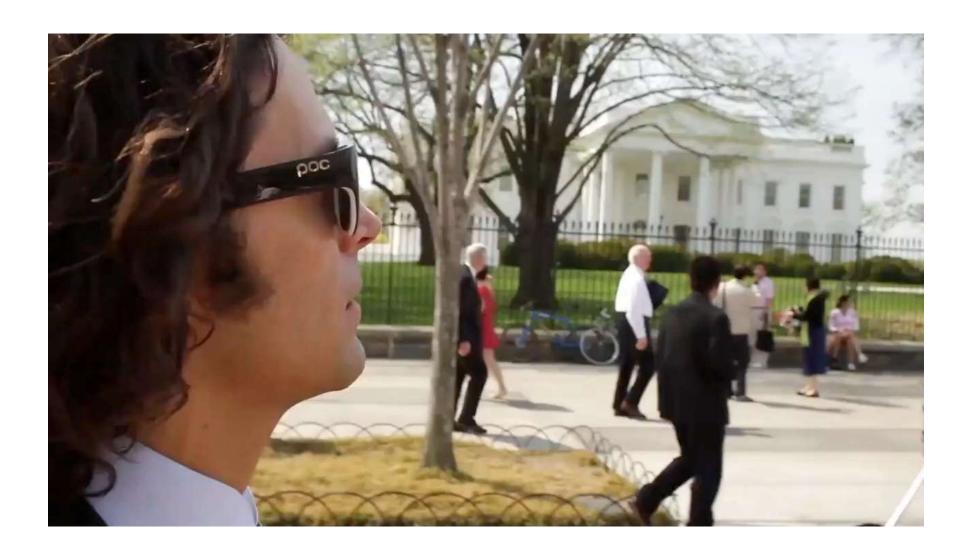














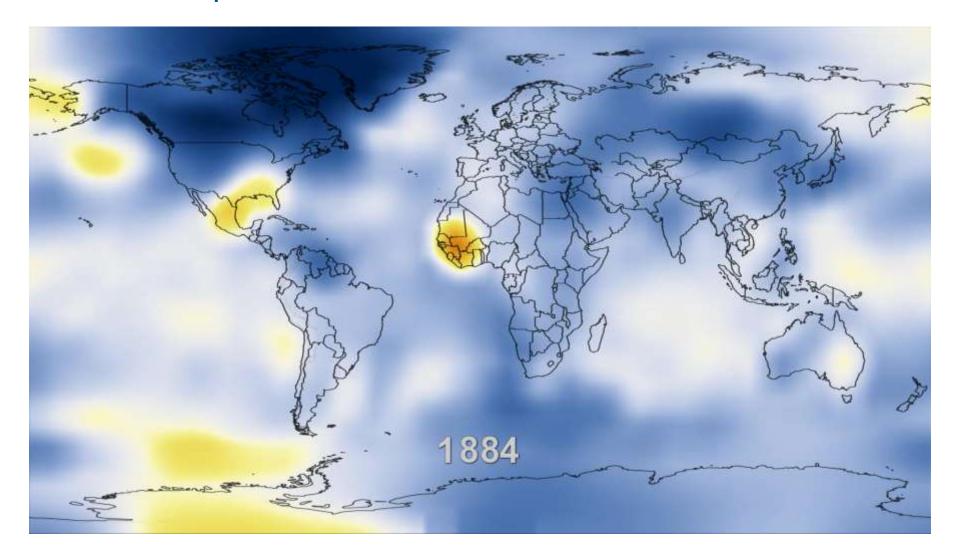
#### **Meet Jake Black**







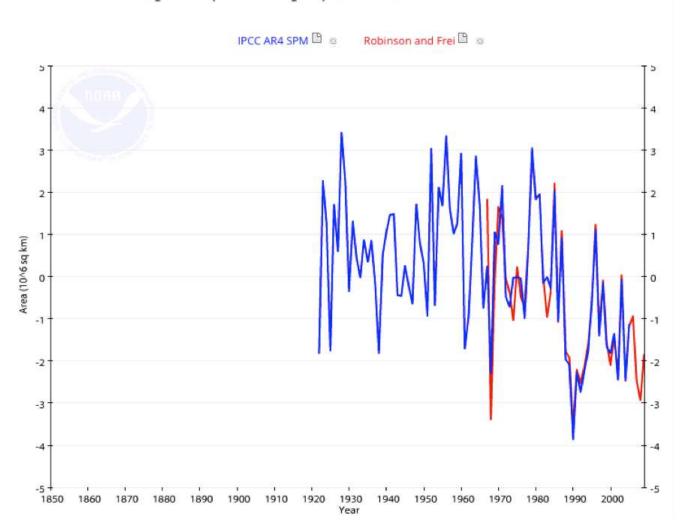
#### **Global Surface Temperatures 1884-2012**





















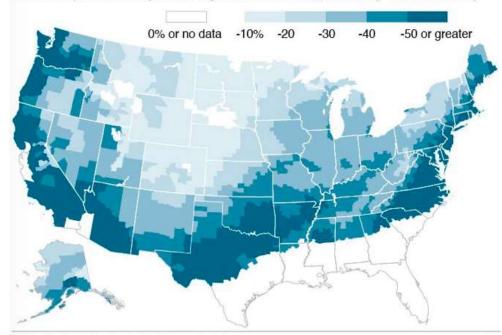
# How is climate change impacting winter?

- Diminished snowpack
- Glacial recession
- Snow levels rising
- Shorter season

#### Longterm snow dropoff predicted for the U.S.

Annual snowfall is likely to greatly decrease by the end of this century if carbon dioxide emissions continue to grow at a modest rate.

Simulated percent change in average annual snowfall, present day vs. end of century



SOURCE: NOAA Geophysical Fluid Dynamics Laboratory







# How is climate change impacting snowsports?

- Spring arrives in Lake Tahoe three weeks earlier now than it did in 1965
- Under a high emissions scenario, by 2100, Aspen's climate will be more like Texas today
- With a temperature rise of 4C, about 40% of precipitation that currently falls as snow will fall as rain at 7,000 feet, which is the base elevation at Canyons, Park City, and Deer Valley



# Why is the snowsports industry so important?

- The winter sports community generates \$66 billion annually and supports 965,000 jobs
- Outdoor recreation spending generates \$646 billion, supporting 6.1 million jobs
- What other industry has economic power to speak out on climate?







#### What is at risk?

- The downhill ski resort industry is estimated to have lost \$1.07 billion in revenue
- In a high emissions scenario:
  - In the Northeast, only 4 out of 14 major ski resorts will remain profitable by 2100
  - Park City will lose all mountain snowpack by 2100 while Aspen's snowpack will be confined to the top quarter of the mountain







#### Good News on Climate



### The New York Times

Can Economies Rise as Emissions Fall? The Evidence Says Yes
Apr. 6, 2016





Energy-related CO2 emissions for first six months of 2016 are lowest since 1991 Oct. 12, 2016

Paris Climate Change Agreement Set to Take Effect After Quick Ratification Process
Oct. 5, 2016



Paris climate deal a 'turning point' in global warming fight, Obama says Oct. 5, 2016

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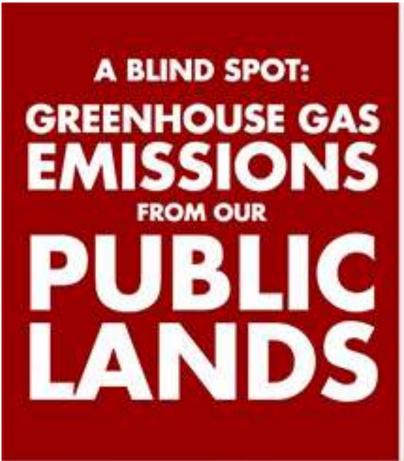


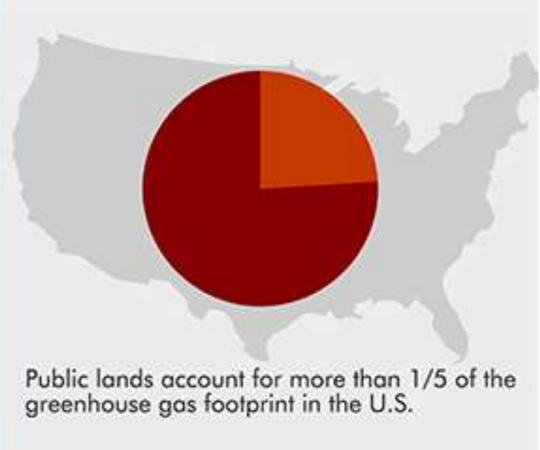








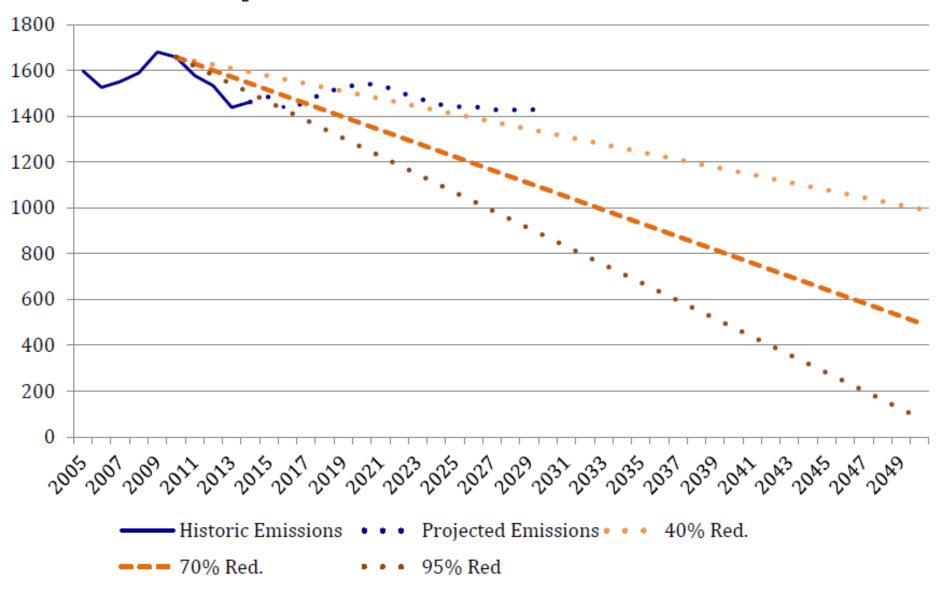




#### Carbon Budget



Federal Lifecycle CO<sub>2</sub>e Compared to IPCC 2°C and 1.5°C Reduction Goals (million tons)



#### Reform the System

























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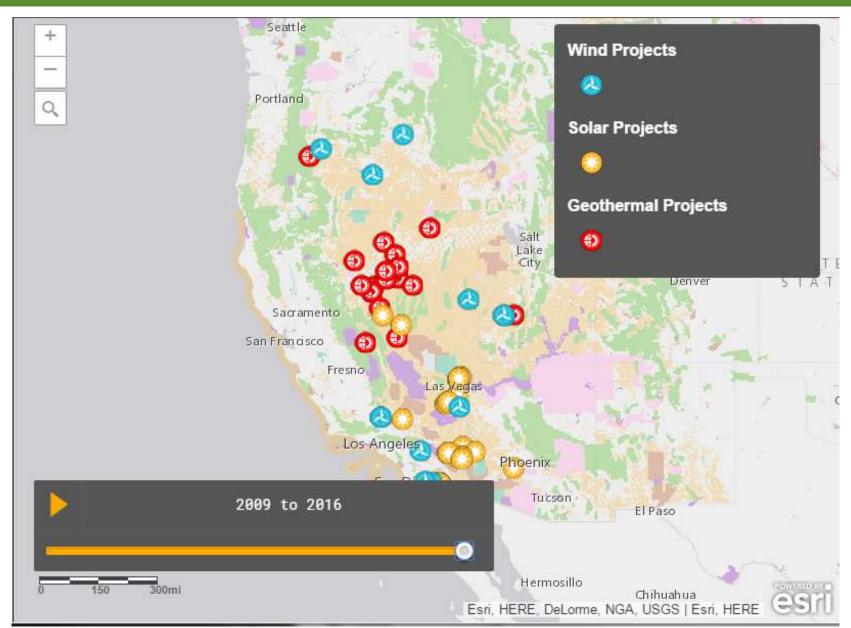
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### Renewable Energy on Public Lands







### Comanche Solar Project







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ALSO, HAVE A PINT!

#### #ActOnClimate



"In such moments of vulnerability, ambivalence, and detachment from one another, we must choose: Do we get involved with saving something bigger than ourselves or do we remain silent and watch it slowly disappear?" - Tom Bell

Credit: Wyoming Outdoor Council.

## #ActOnClimate







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