

WILD PLACES, CLEAN ENERGY

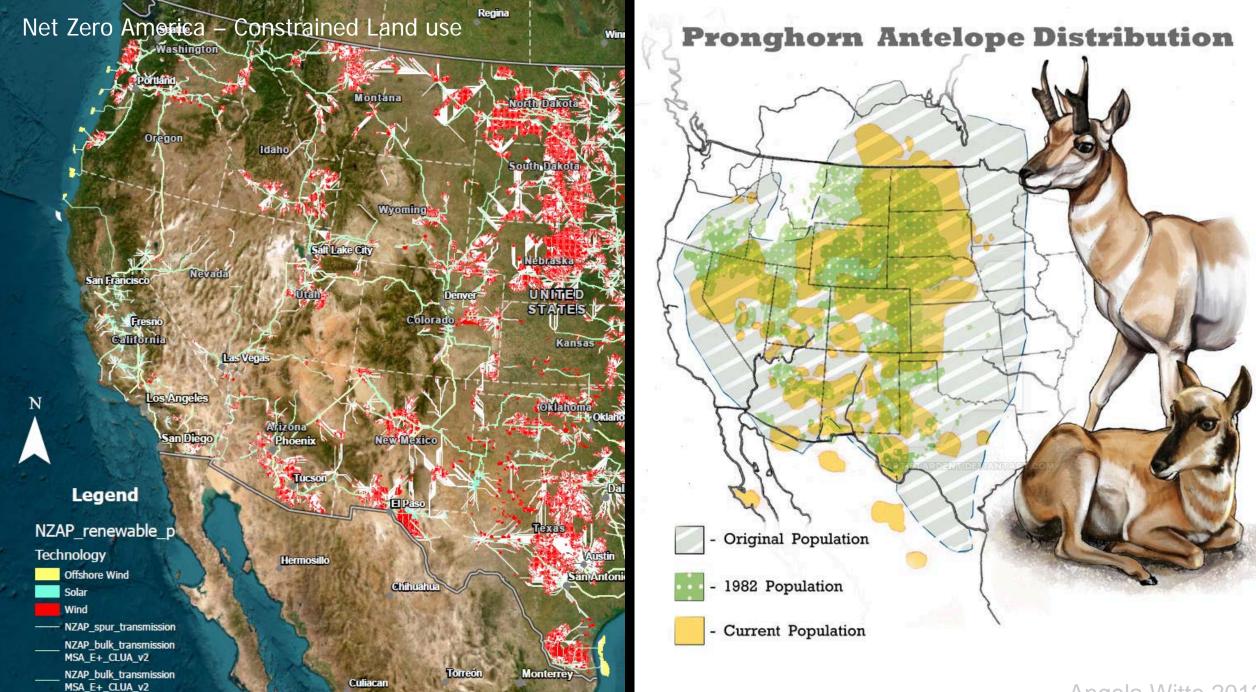
## The Planet Needs Solar Power. Can We Build It Without Harming Nature?

Today's decisions about how and where to set up new energy projects will reverberate for generations.



## ambitous sustainability goals around

clean energy, but integrating rising amounts of renewables, minimizing environmental impacts, and achieving carbon reduction targets can be challenging.



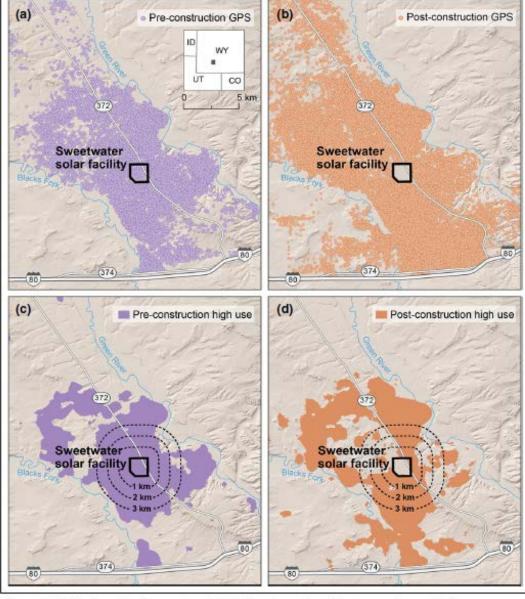
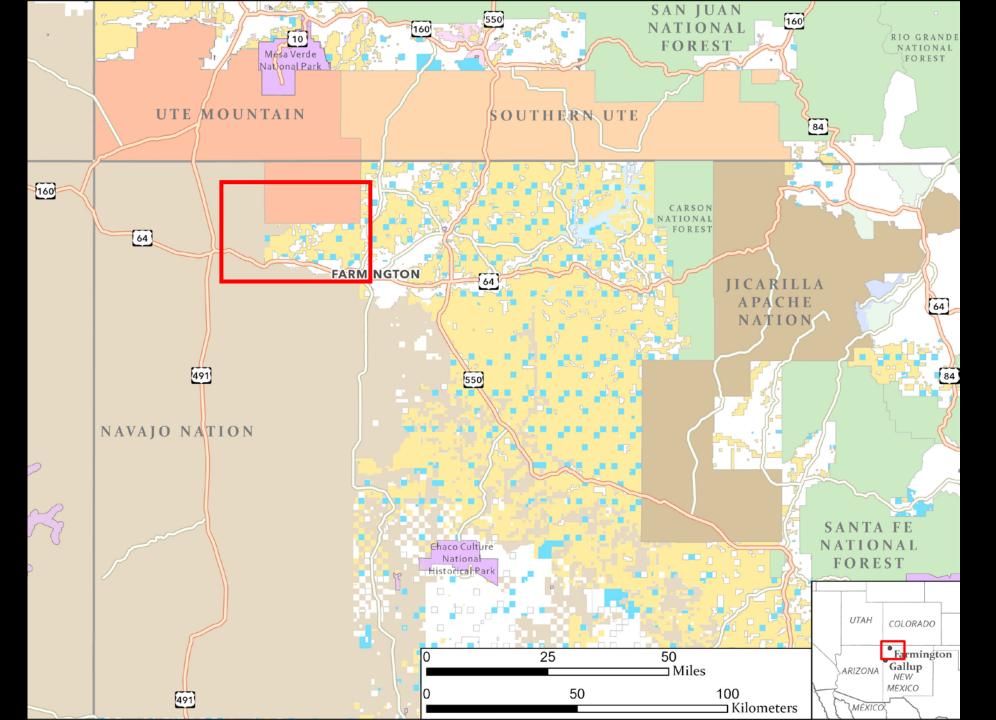


Figure 1. Global positioning system (GPS) locations of resident pronghorn (*Antilocapra americana*; n=11) (a) before and (b) after construction of the Sweetwater Solar Facility, a utility-scale solar energy (USSE) project in southwestern Wyoming. High-use range of resident pronghorn (c) before (01 May-30 Sep 2018) and (d) after (01 May-30 Sep 2019 and 2020) the USSE facility was built.

Fencing around solar installations excludes pronghorn and likely other



Sawyer et al. 2022















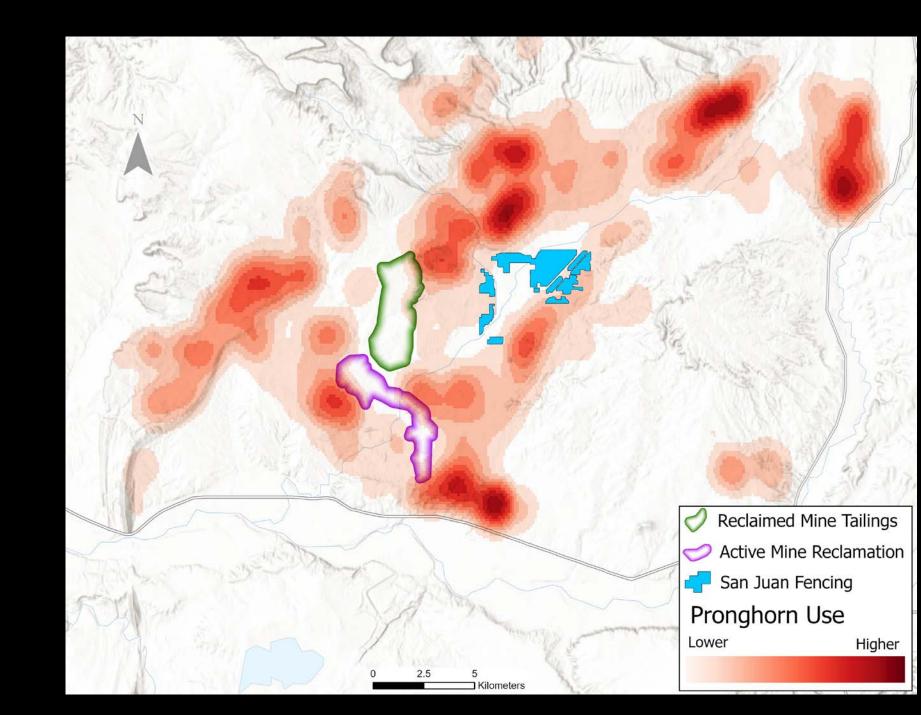


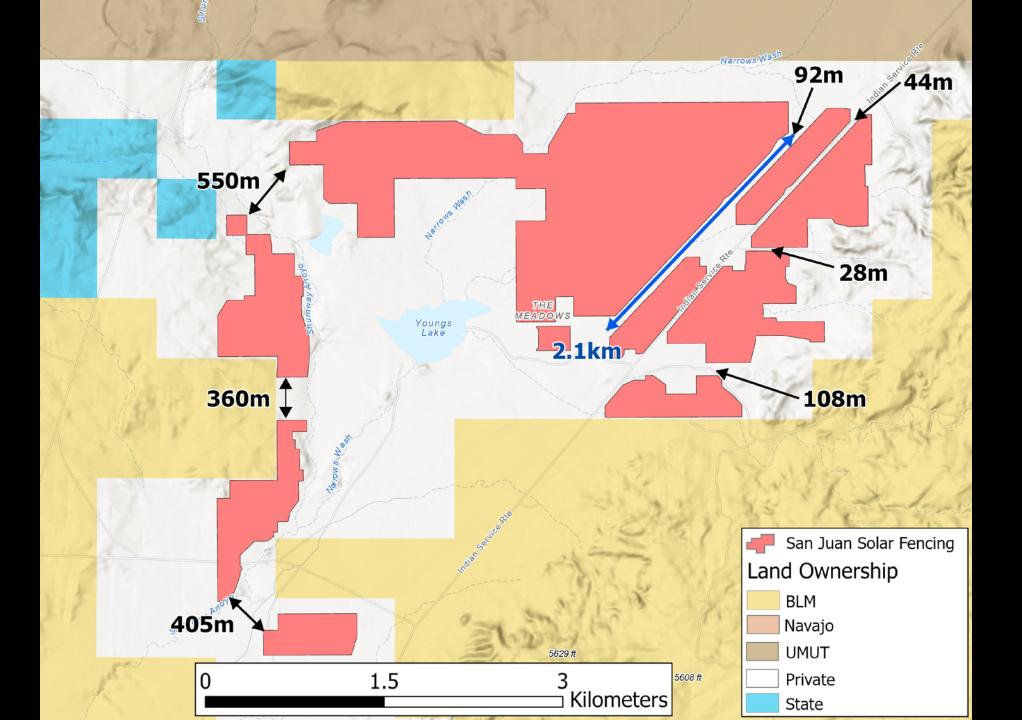


- 60 GPS collar (Lotek litetrack 420)
  - 30 North (around current solar)
  - 30 South (prospective solar)
  - All adult does
  - 1 hour fix rate all day



Since March 2, 2024: 72,960 locations 2,432 ± 468 SD Mean Habitat Quality: 959 ± 19.4 Range: 904-973





- 25 animals (83%) have come within 1 km of fencing
- More use around outside edges of fencing than inside
  - Use of foothills and 'badlands'
  - Lack of use in central portion with arrays on multiple sides
- Still only 4 months of data

