Solar Wildlife & Ecosystems RESEARCH MEETING

NOVEMBER 17-20, 2025 | SCOTTSDALE, AZ



Research Topics

Specific areas of interest for abstracts include, but are not limited to, the list below.

1. Solar-Wildlife Ecological Interactions

- a. Short- & long-term effects on habitat
- b. Population-level studies demography, behavior, & genetics
- c. Community Studies composition, diversity, abundance, species interactions, etc.
- d. Cumulative effects & landscape considerations
- e. Monitoring techniques, standardization, data management & accessibility

2. Studying Solar Farms through the Lens of Ecosystem Function & Service

- a. Ecosystem responses to different construction practices, vegetation establishment & management strategies
- b. Wildlife compatibility with dual-use solar & agrivoltaic systems
- c. Nutrient cycling, soil-plant interactions, & microclimates

3. Evaluating the Efficacy of Mitigation Strategies Associated with Solar Buildout

- a. Avoidance strategies avoiding impacts amidst constraints & multiple interests
- b. Minimization onsite practices & design features reducing impacts & providing benefits
- c. Compensatory strategies implementation, evaluation, & lessons learned

4. Water Resource Management

- a. Water use & conservation
- b. Short and long-term effects on hydrology, water quality, wetlands, & aquatic wildlife
- c. Stormwater best management practices & regulations
- d. Ecological effect of floating PV solar

5. Climate Change, Solar Energy, & Wildlife Ecology

- a. Counterfactuals to assess solar-wildlife interactions
- b. Modeling effects of climate change & solar buildout on wildlife populations
- c. Interactions among climate change, microclimates, & regional weather

6. Placing Science in Context

- a. Common community concerns re: solar-wildlife-ecosystem interactions
- b. Engaging community representatives in the full research process
- c. Disseminating research in a dialogue with community stakeholders
- d. Lessons learned/case studies/future needs