



Integrating Pollinator Habitat in Solar Developments

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Pollinators are essential to ecosystems and agriculture. Together, pollinators and solar can help combat climate change and make renewable energy affordable for all.

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Who are our pollinators?



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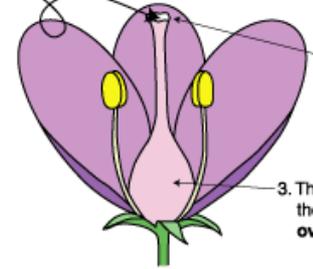
What is Pollination?

POLLINATION

1. The pollinator receives **pollen** from the **stamen** of the first flower.



2. And deposits it on the **stigma** of the next flower.



3. The pollen moves down the style to join with the **ovules** in the ovary.

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Importance of Animal Pollination

90% of all flowering plants on earth need animal pollinators

1/3 of the food we eat

Seeds and berries, plant material needed by wild animals

Pollinators provide pollination services to 180,000+ plant species and 1200+ crop species

87 of top 128 Global food crops

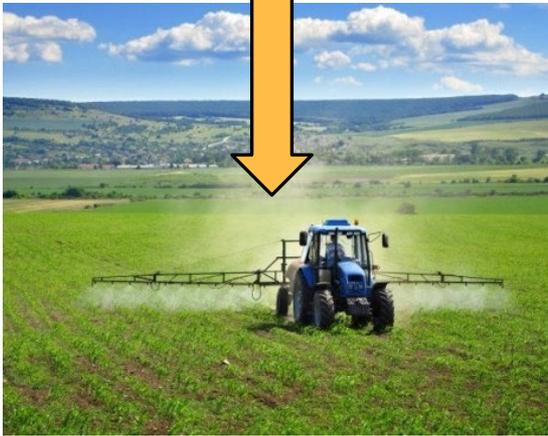
Pollinators add \$217 billion to the global economy

Pollinators provide ecosystem services & support healthy ecosystems

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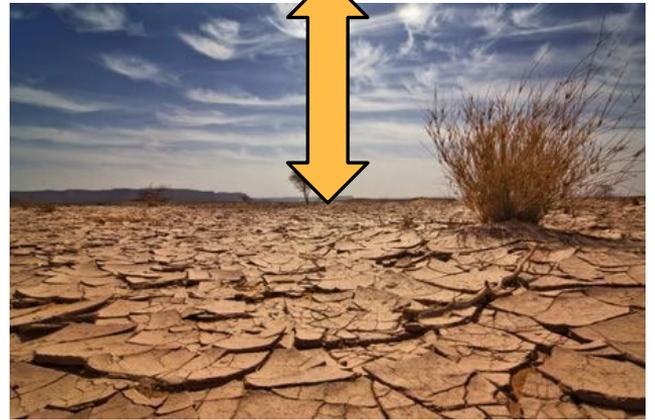
Habitat loss



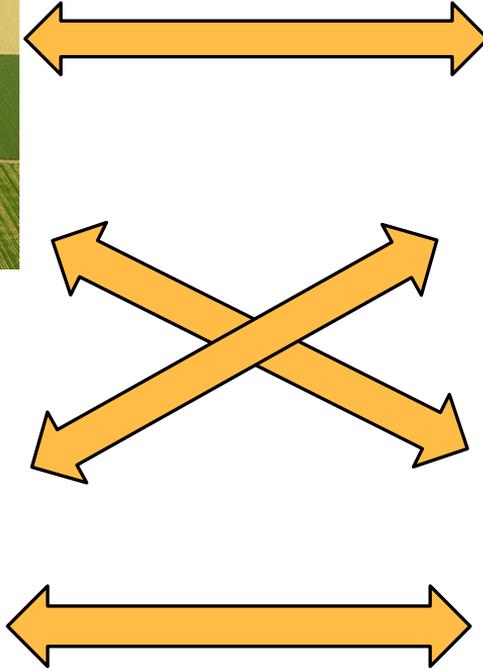
Pesticides



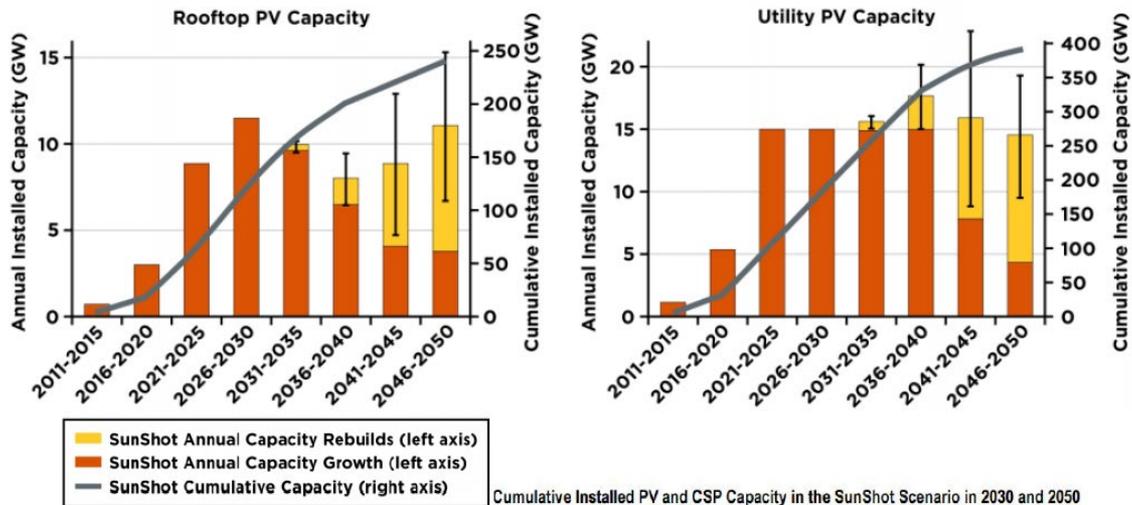
Parasites, Diseases



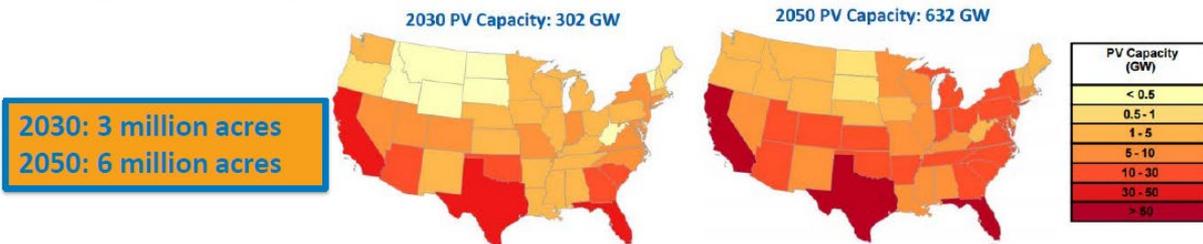
Climate change



Motivation: Department of Energy SunShot Solar Goals



Cumulative Installed PV and CSP Capacity in the SunShot Scenario in 2030 and 2050





Solar and Pollinators

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How do you go from this...



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...to this.



And why?

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