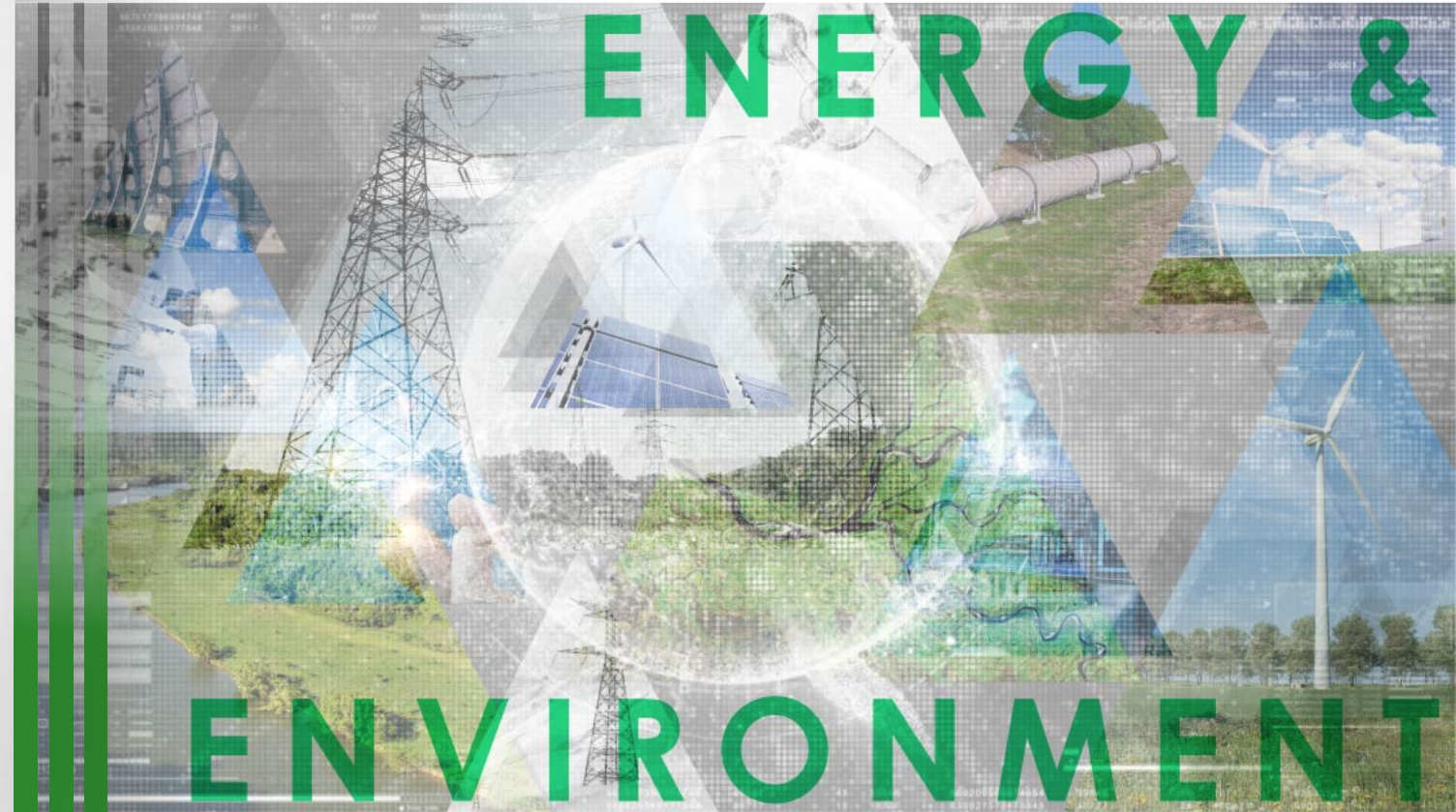


EPRI Pollinator Research

Jessica Fox
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Power-in-Pollinator Initiative



Looking beyond company fence lines, there is an opportunity for electric utilities to work together on pollinator research and conservation that can result in greater measurable benefits than would be possible working alone.



Board Strategic Development Committee and Special SMUD Board of Directors Meeting

Public comment may be submitted via e-mail to PublicComment@smud.org

Power-in-Pollinators Initiative 2021



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As electricity flows through the landscape, power companies can help pollinators flow through the ecosystem.



Narrated by

CARRIE-ANNE MOSS

Cinematographer

HARUN MEHMEDINOVIC

Written, Directed & Produced by

MATHEW SCHMID

Executive Producers

JESSICA FOX & GEORGE
DICAPRIO



Board Strategic Development Committee and Special SMUD Board of Directors Meeting

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Communication and Awards



MAKING AN IMPACT

2020: Reached 1.2 Million people

2021: Reached **2.2 Million** people

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PublicComment@smud.org

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Technical Work

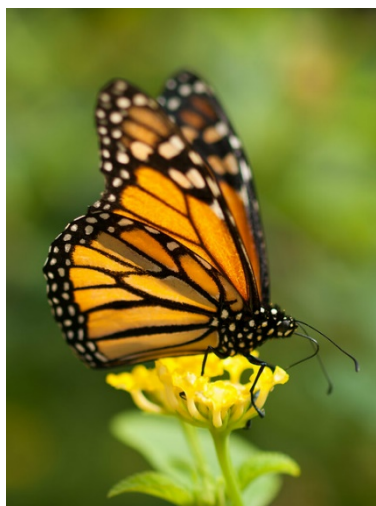
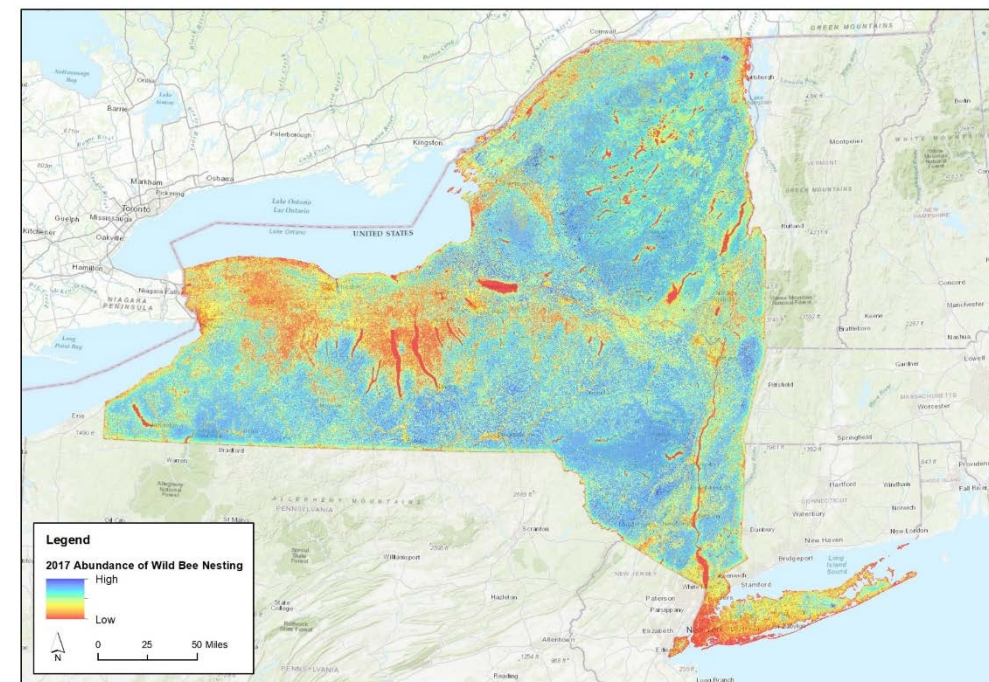
Wild Bee GIS Tool

Pollinator Metrics Database

Bee Better Certified for Power Companies

Corporate Pollinator Communication and Strategy

Monarch Landholding Analysis



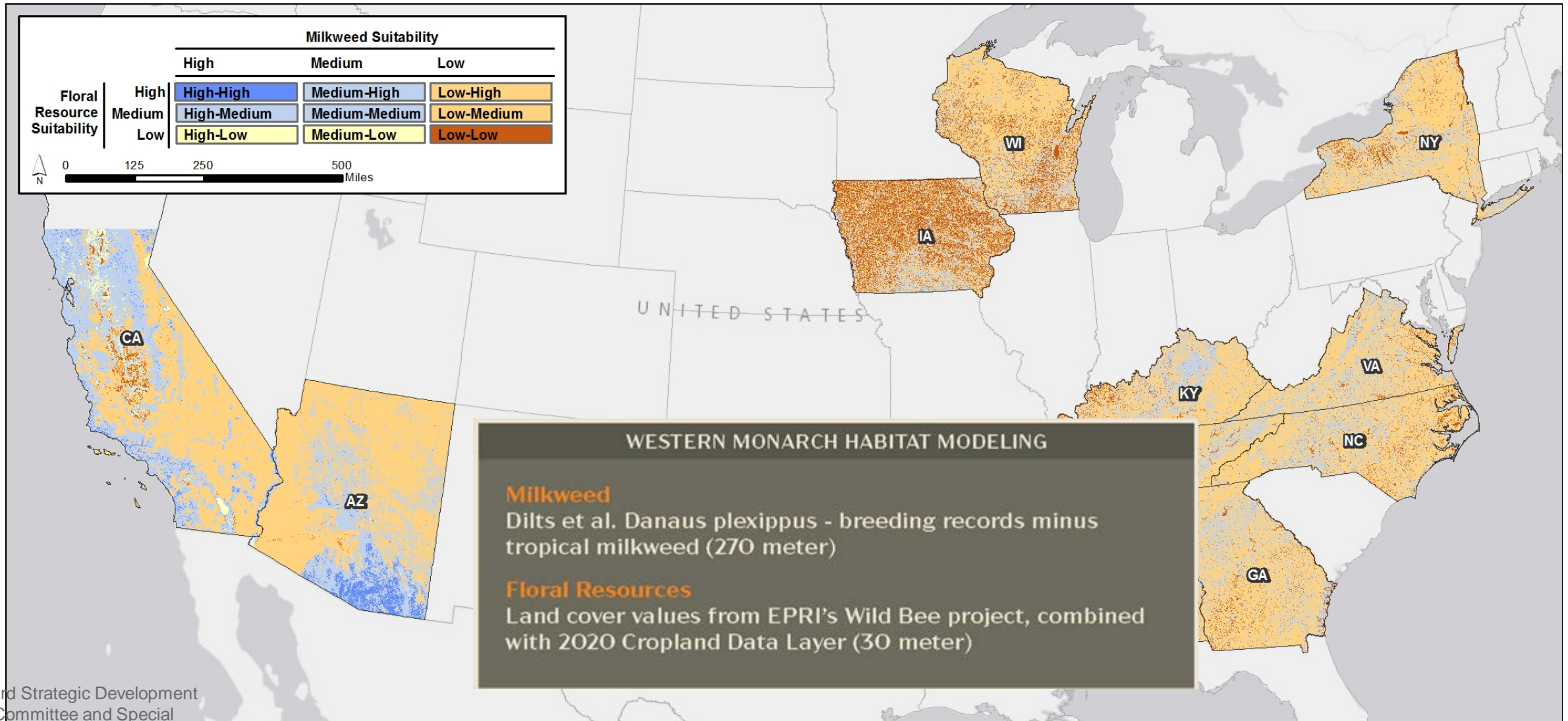
Pollinator Metric database to consider the “best” metrics for sustainability report and benchmarking.

Purpose	Priority Issues	Number of Metrics
<i>Pollinator Community</i>	2	23
<i>Pollinator Habitat</i>	11	76
<i>Communication</i>	3	35
<i>Planning</i>	4	25
Total	20	159

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Latest Monarch Habitat Suitability Map



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A Review of Solar-Pollinator Scorecards

- Analyze scoring elements and attributes,
- Consider if they are protective of pollinators,
- Identify improvements for usability and effectiveness.

Number*	Scorecard	Year Released
1	Minnesota	2016
2	Vermont	2016
3	Maryland	2018
4	Wisconsin	2018
5	Ohio	2018 (March)
6	Michigan	2018 (June)
7	North Carolina	2018 (October)
8	Massachusetts	2019
9	Florida	2019
10	Missouri	2019
11	Virginia	2019 (December)
12	Illinois	2019 (December)
13	South Carolina	2020 (June)
14	Northern California / Oregon	2020
15	Indiana	2020
16	National: Fresh Energy	2020

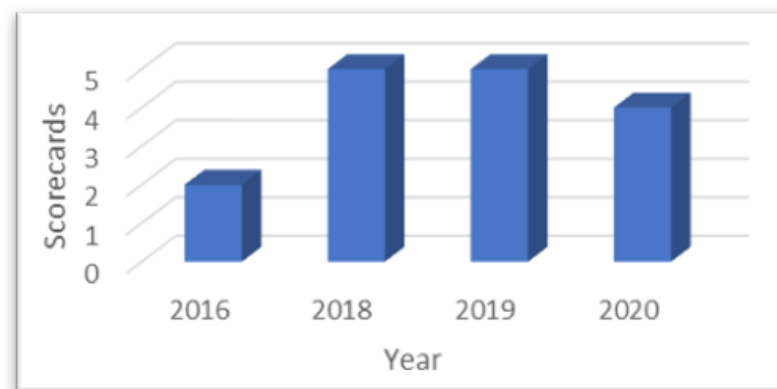



Figure 4-1
Scorecards Released per Year, 2016–2020



Northern California / Oregon Pollinator-friendly solar scorecard

The entomologist-approved standard for what constitutes "beneficial to pollinators" within the managed landscape of a PV solar facility.

1. PERCENT OF PROPOSED SITE VEGETATION COVER TO BE DOMINATED BY POLLINATOR-FRIENDLY WILDFLOWERS

☐ 31-45 % +5 points
☐ 46-60 % +10 points
☐ 61+ % +15 points

Total points

Note: Projects may have "array" mixes and diverse open area/ border mixes; forb dominance should be averaged across the entire site; seeds (from all seed mixes) to be planted.

6. SITE PLANNING AND MANAGEMENT

☐ Detailed establishment and management plan developed with funding/ contract to implement. +15 points
☐ Signage legible from a distance of 40 feet or more stating "pollinator friendly solar habitat" (at least 1 every 20ac.). +5 points

Total points

7. RE-VEGETATION

☐ Seed is applied at 50 PLS (Pure Live Seed) per square foot +5 points
☐ 20% or more of the native species' seed has a local genetic origin within 175 miles of the site +5 points
☐ For sites located 5 miles or further east of the coastline, re-vegetation includes 1% native milkweed +10 points

Total points

8. PESTICIDE RISK

☐ Planned on-site insecticide use or use of plant material pre-treated with +40 points

9. SPECIES DIVERSITY (total # of species in n, including native grasses)


☐ +5 points
☐ +10 points
☐ +15 points


Total points

10. % OF SITE DOMINATED BY NATIVE SPECIES

☐ +5 points
☐ +10 points
☐ +15 points

Total points





Feasibility of Co-locating Solar PV and Pollinator Habitat

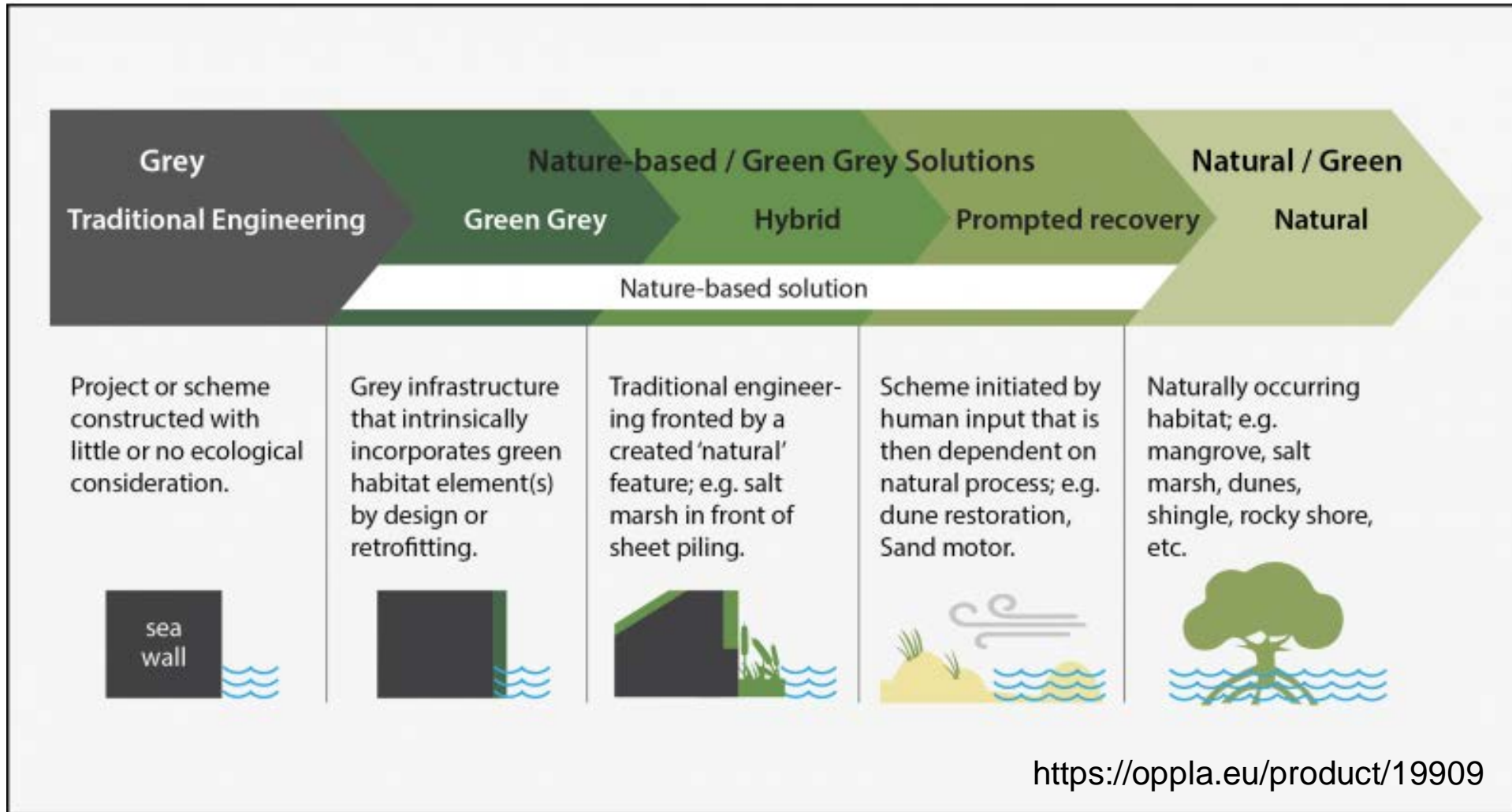
This project aims to understand the value of pollinator-friendly solar through a techno-economic analysis that considers owner/operator, ecological and sustainability perspectives.

Industry Steering Committee:

- Kathleen Ave, Sr. Climate Program Manager, Energy Strategy, *Sacramento Municipal Utility District*
- Janine Crane, Environmental Services Project Manager, *NextEra Energy Resources*
- Suzanne Fisher, Sr. Program Manager, River & Resource Stewardship, *Tennessee Valley Authority*
- Brian Kortum, Director, Environmental Permitting, *NiSource*
- Marcus Krembs, Head of Sustainability, *Enel North America*
- Douglas Meneghel, Engineering Leader, *Enel North America*
- Bill Skalitzky, Manager, Environmental Services, *Alliant Energy*
- Christina Svoboda, Plant System Owner, *American Electric Power*

The analysis will objectively present various viewpoints, challenges, and opportunities related to pollinator-friendly solar, including the costs for installation and maintenance, and the non-monetary value of the projects from sustainability and ecological perspectives.

Natural Infrastructure vs. Traditional Engineering



Pollinators
and
Water
and
Carbon
and
Solar

and

Aligns with CA
ARB's Natural &
Working Lands
strategy

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Together...Shaping the Future of Electricity

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