Bringing Life to Solar Farms

Alt Technica
Solar Design
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AMERICAN SOLAR ENERGY SOCIETY

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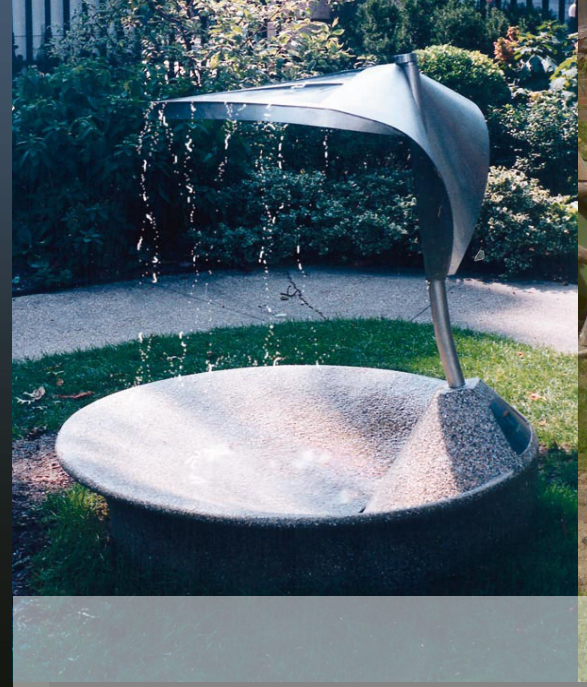

the Aesthetics of Energy

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75% of all fruits, nuts, & vegetables
(flowering plants) are pollinator-dependent

Bird, butterfly, & beneficial insect populations are in sharp decline due in large part to loss of habitat & native plant species

Fresh Energy

Community acceptance is crucial & a solar developer's competitive advantage for an estimated 6-8 million acres *

RICHARD BEAVEN FOR THE WALL STREET JOURNAL

Energy from more than 1,200 solar panels powers Benjamin Freund's 650-acre dairy farm and home in East Canaan, Conn.

Solar Projects Sow Tension

As panels supplant crops on more farms, states weigh limits on big renewable fields

tion of Counties.

The pressure in rural areas stems, in part, from simple economics. Some farmers are installing solar panels on a patch of their land to help offset energy costs. Other farm-

On the Bright Side

U.S. solar power generation in thousand megawatt hours

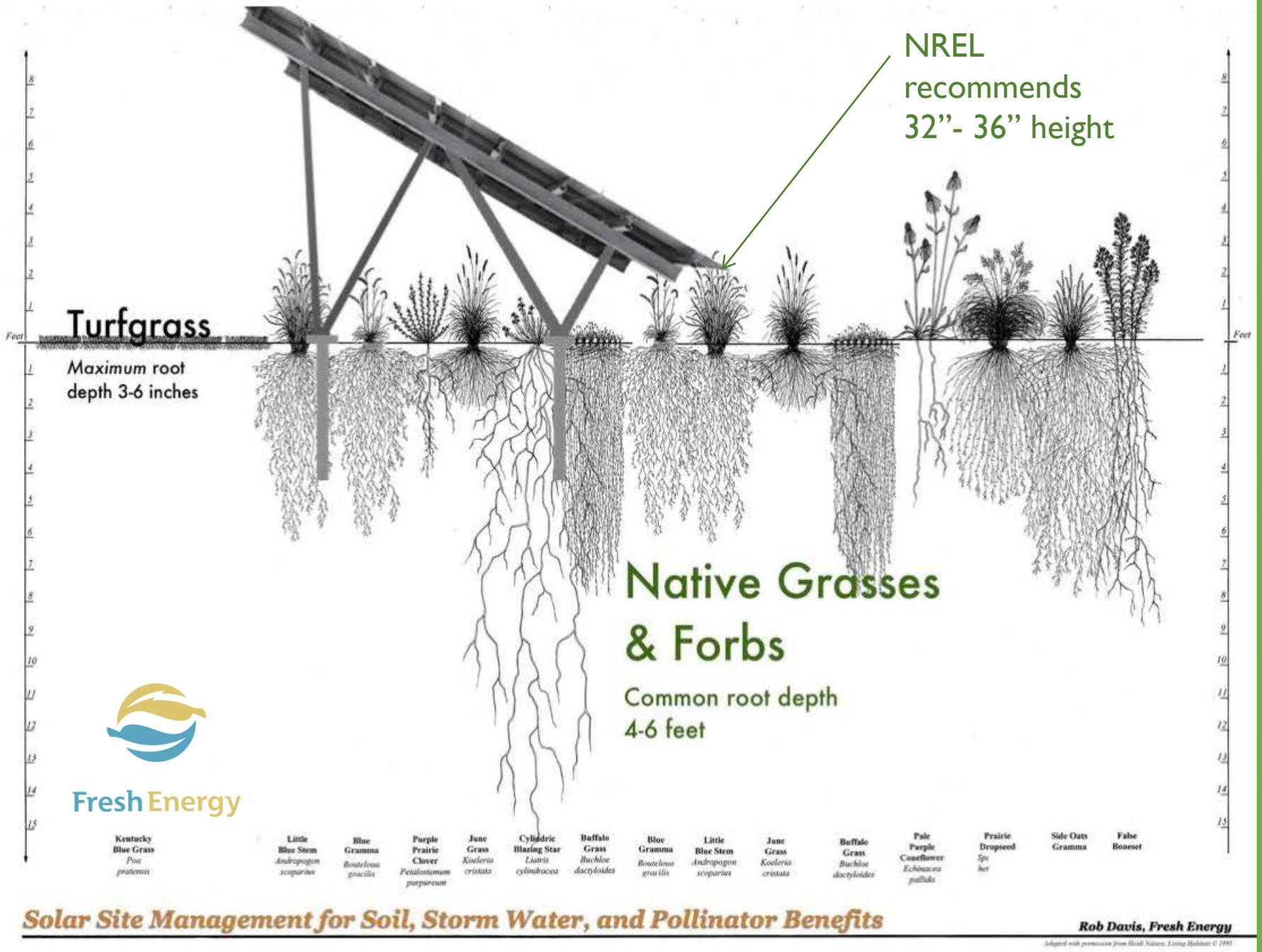
2016: 36,755

30,000

whelming opposition," said Mr. Scanlon. The county denied the application.

Benjamin Freund, who has a dairy farm in East Canaan, Conn., in recent years installed more than 1,200 solar panels on a patch of his land and on top of his dairy barn. The gen-

* Technical Report NREL/TP-6A20-56290
June 2013 www.NREL.gov



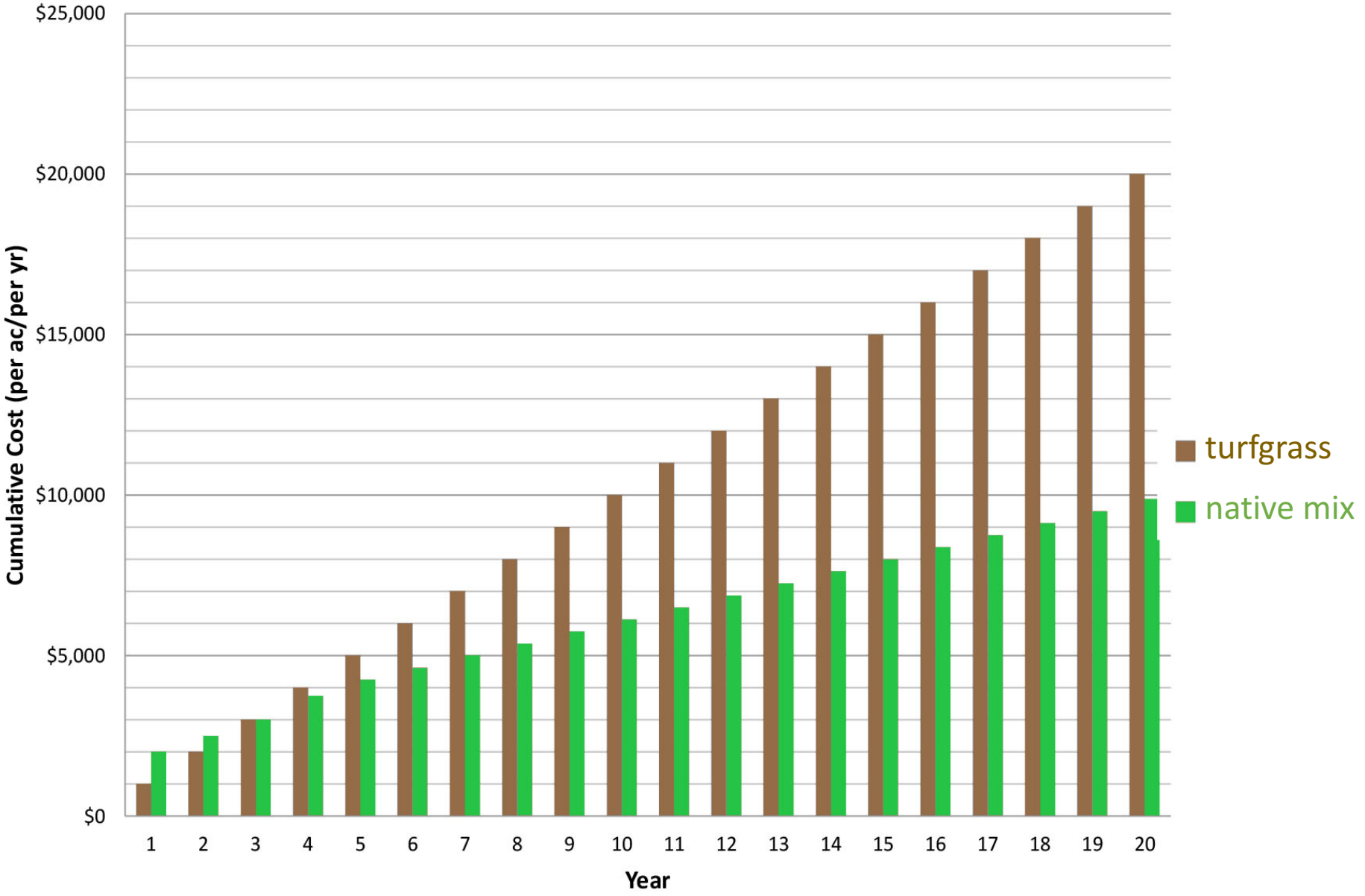
Deep roots increase carbon sequestration, along with drought, flood, & erosion resilience.

Cooling transpiration adds to module efficiency at 77°+

Center for Pollinators in Energy
BeesLoveSolar.org

"Fuzz & Buzz" seed mixes provide for animal grazing as well as pollinators, adding to overall productivity

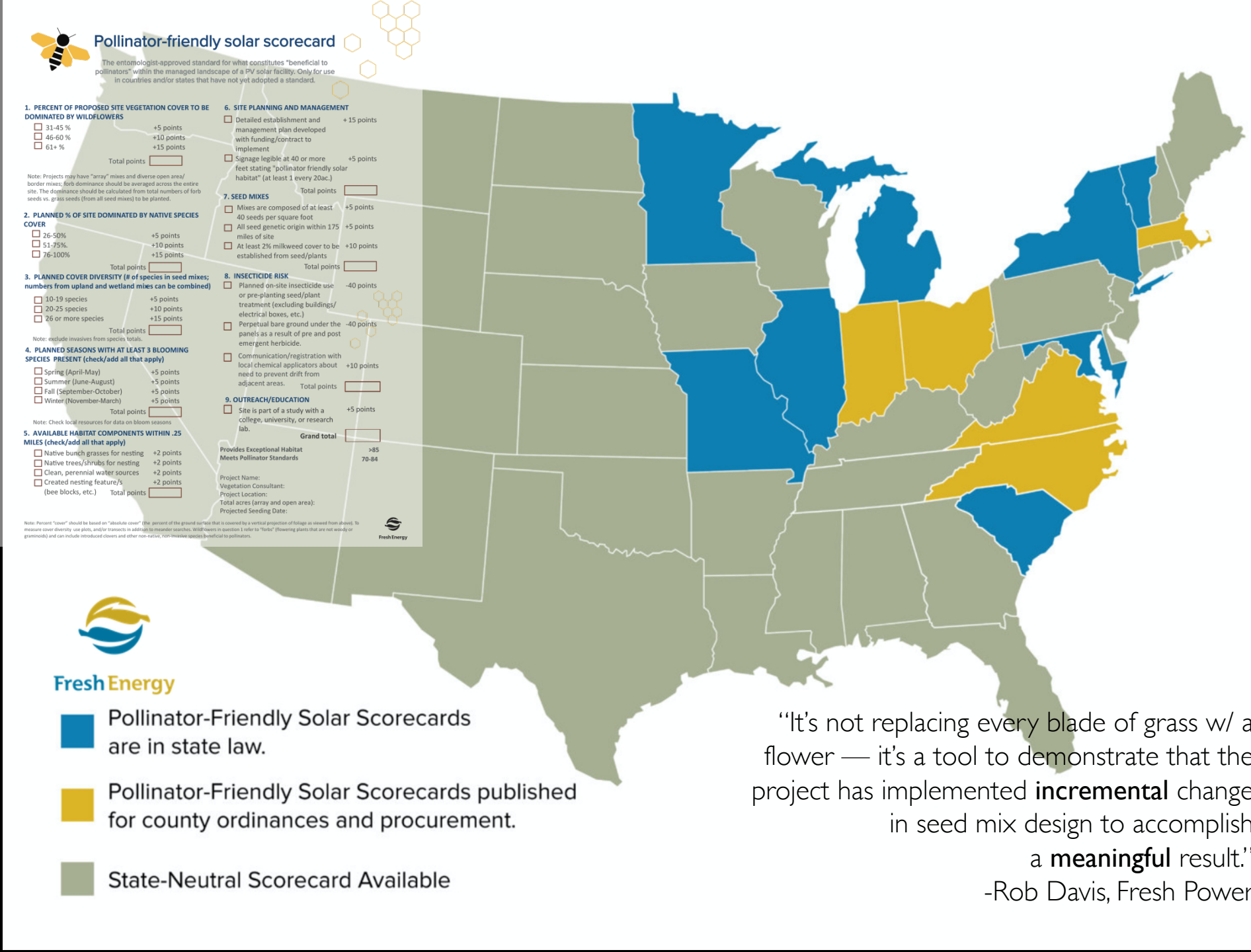
Comparison of cumulative costs of maintaining pollinator-friendly seed mix vs turfgrass*



Native seed mix results in cost savings on O&M over traditional turfgrass, with a break-even point at Year 3-8

*Applied Ecological Services, Inc. 2013

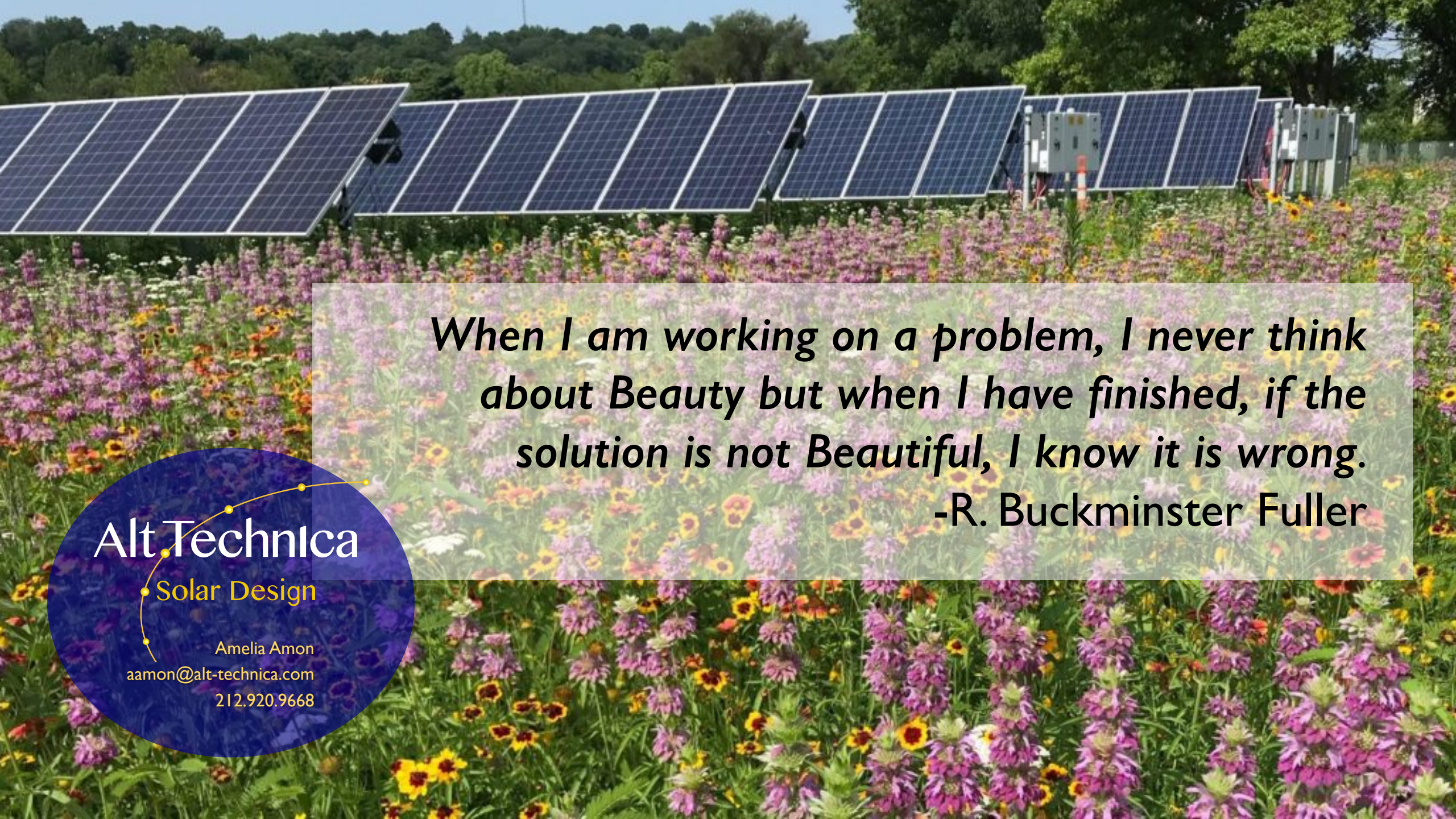
www.vcr.virginia.gov



"It's not replacing every blade of grass w/ a flower — it's a tool to demonstrate that the project has implemented **incremental** change in seed mix design to accomplish a **meaningful** result."
-Rob Davis, Fresh Power

State & National standards, vetted by **Entomologists**

- ❑ % wildflowers
- ❑ % native species
- ❑ # of species
- ❑ # seasons flowering
- ❑ Nearby assets
- ❑ Management plan
- ❑ Signage
- ❑ Insecticide risk



When I am working on a problem, I never think about Beauty but when I have finished, if the solution is not Beautiful, I know it is wrong.

-R. Buckminster Fuller

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