

Solar 101



Isabelle Creek Solar contact information

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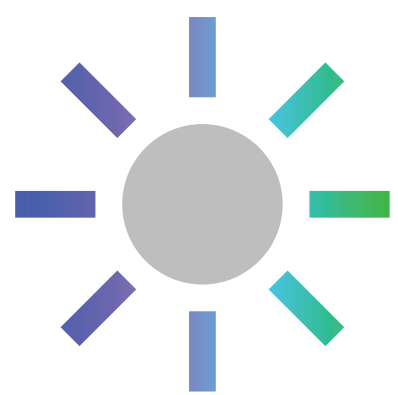
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AES is leading the clean energy transition in the US

About AES

Founded in 1981, The AES Corporation (AES) is a Fortune 500 global energy company accelerating the future of energy. Headquartered in Arlington, Virginia, AES delivers innovative clean energy solutions that are flexible and tailored to meet the specific needs and objectives of our customers.



Solar



Wind



Storage



Hybrid



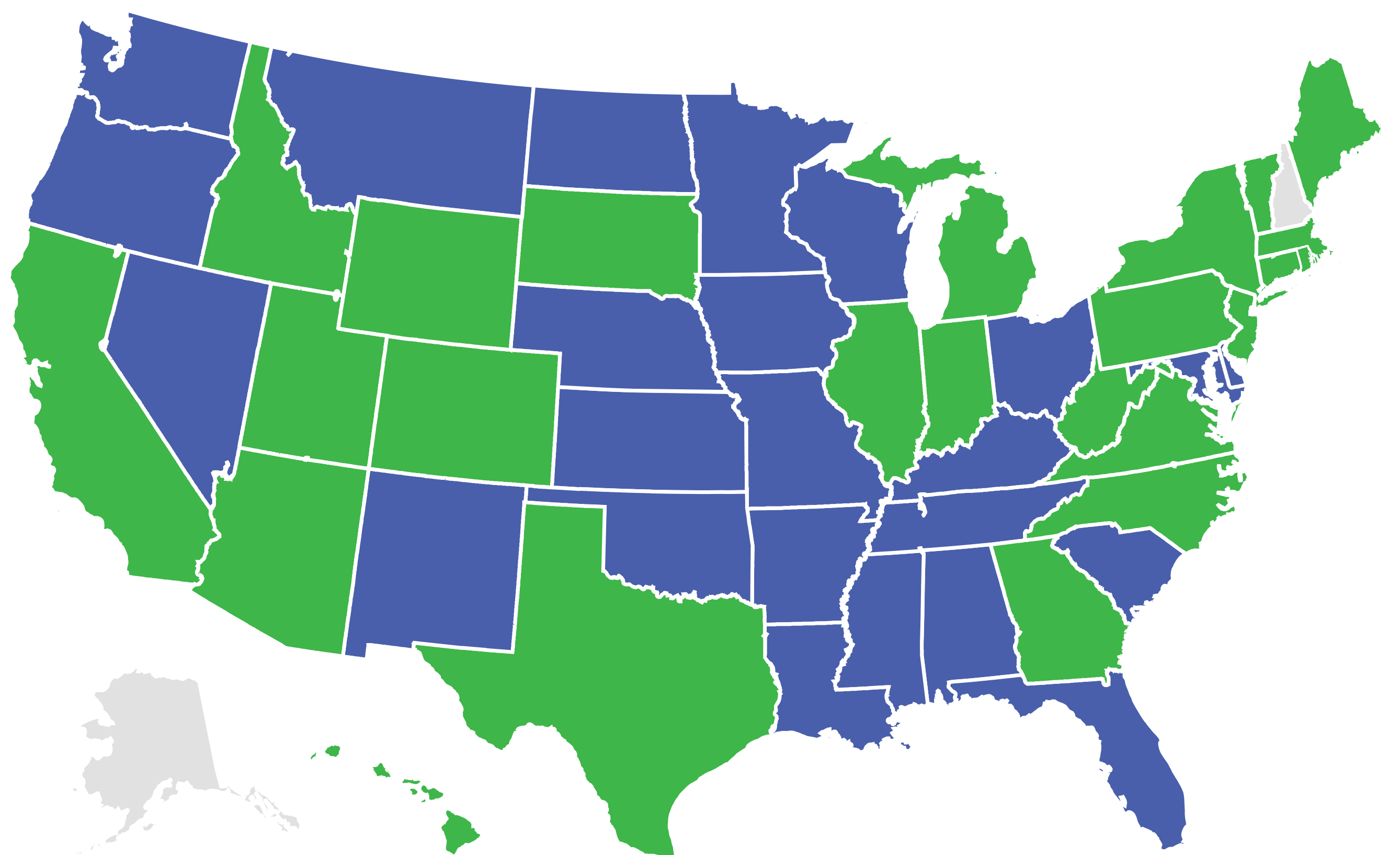
Green
Hydrogen

Our work

AES owns and operates more than 540 utility-scale and community solar, wind, energy storage and hybrid projects across 24 states in the US. We deliver cost-competitive clean energy to utilities, communities, corporations, and organizations to meet their clean energy and sustainability commitments both today and into the future.

8.6 GW
in operation

51 GW
in development



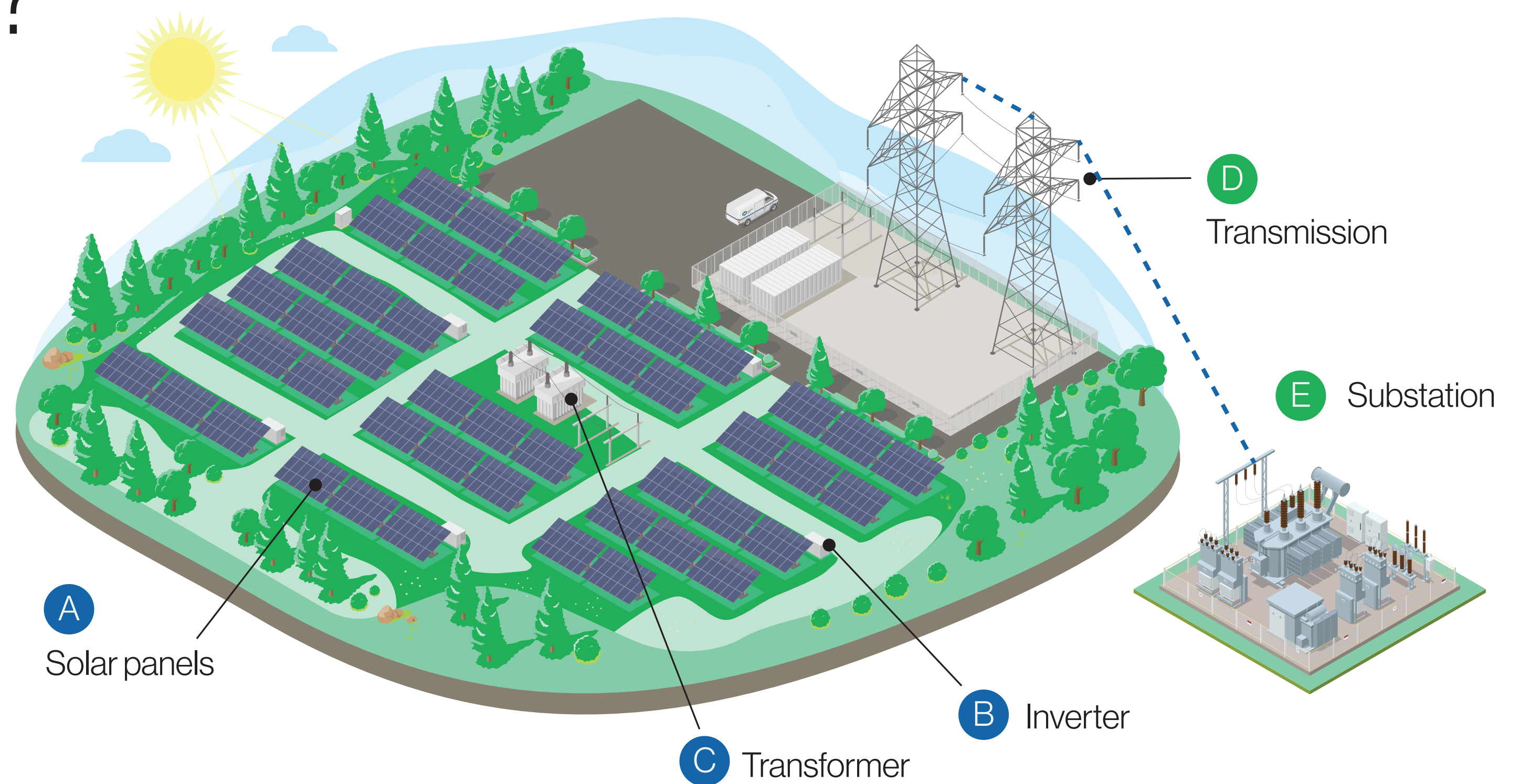
 Operating

 Developing

Isabelle Creek solar project



How does solar power work?



A

The sun shines on the solar modules, which are made up of photovoltaic cells. These cells harness the sunlight and turn it into direct current (DC) electricity.

This project's solar panels have a tracking system and follow the path of the sun to maximize solar energy production.

B

An inverter converts DC electricity into alternating current (AC) electricity.

AC electricity is what standard household appliances use.

C

The AC electricity is gathered in a large switchgear called a transformer. It "steps up" the power to match the high voltage of the utility grid.

D

The AC electricity travels through the utility transmission lines to the regional power grid.

E

The AC electricity reaches the nearby substation where it is converted to a lower voltage. This "step down" is required to adjust the voltage to appropriate levels to power neighborhoods and businesses.

Blue = Project equipment
Green = Existing infrastructure

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What's in a solar panel?

More than 95% of the materials used in solar panels are commonly recyclable materials. This recyclable percentage is significantly higher than other electronic waste from consumer products like cell phones, television screens and computers.

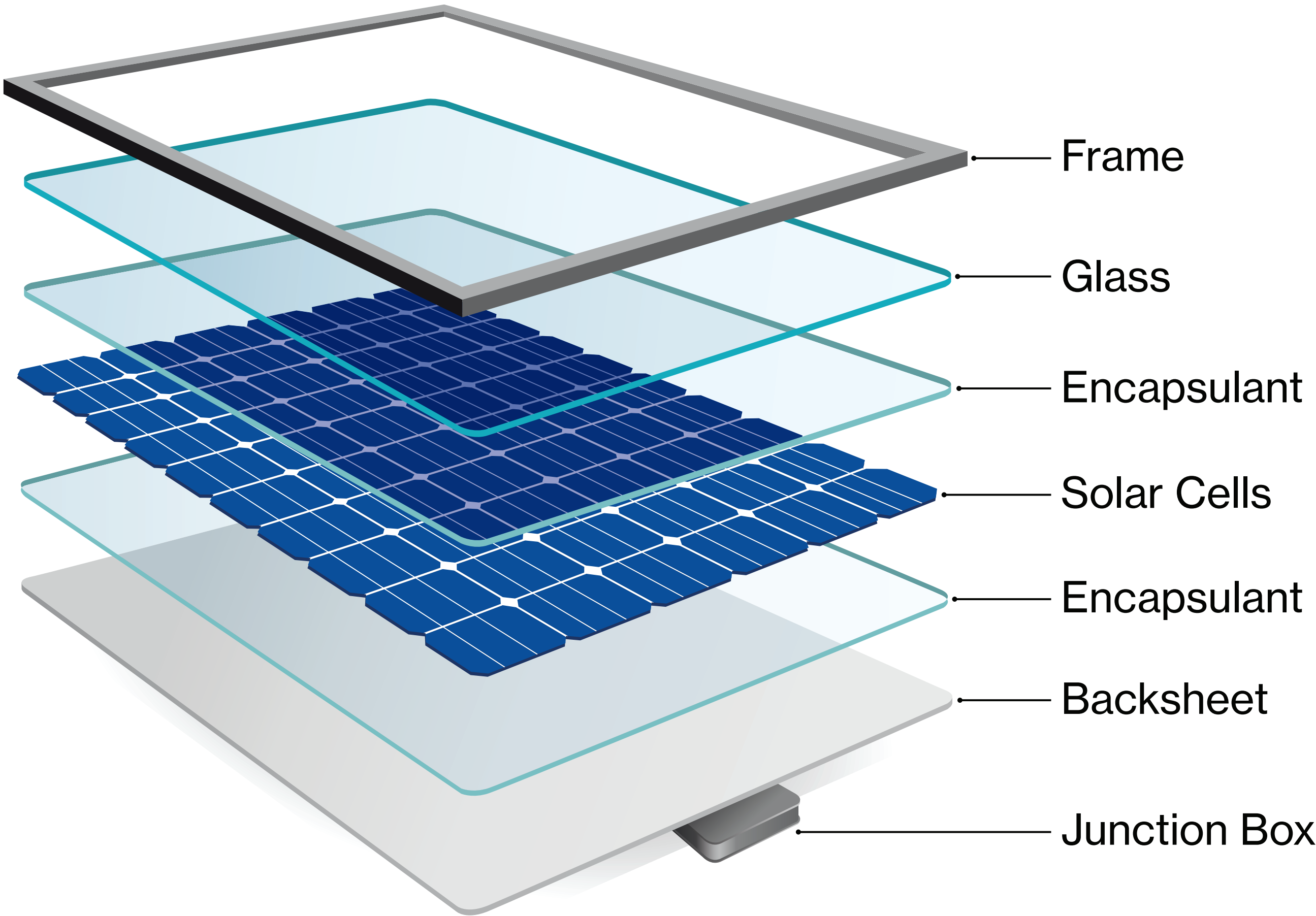
Recyclable materials
in a solar panel (panel
percentage range):

76-97%
Glass

7-10%
Aluminum

5-7%
Silicon

2-10%
Polymer
(coatings)



Isabelle Creek solar project



Project overview

- Title: Isabelle Creek solar project
- Location: Pierce County, Wisconsin
- Point of Interconnection: Herbert Substation
- Project footprint: 969 acres
- Nameplate capacity: 75 MW
- Environmental benefits: Enough energy to power nearly 18,000 Wisconsin homes
- COD: Spring 2031

Project economic benefits

<div>\$8 million</div> <div>Pierce County over the life of the project</div>	<div>\$6 million</div> <div>the Town of Hartland over the life of the project</div>
<div>220</div> <div>jobs during construction</div>	<div>8</div> <div>Long-term jobs</div>

Community engagement

AES is committed to strengthening positive impact through mutually beneficial partnerships in the communities where we work

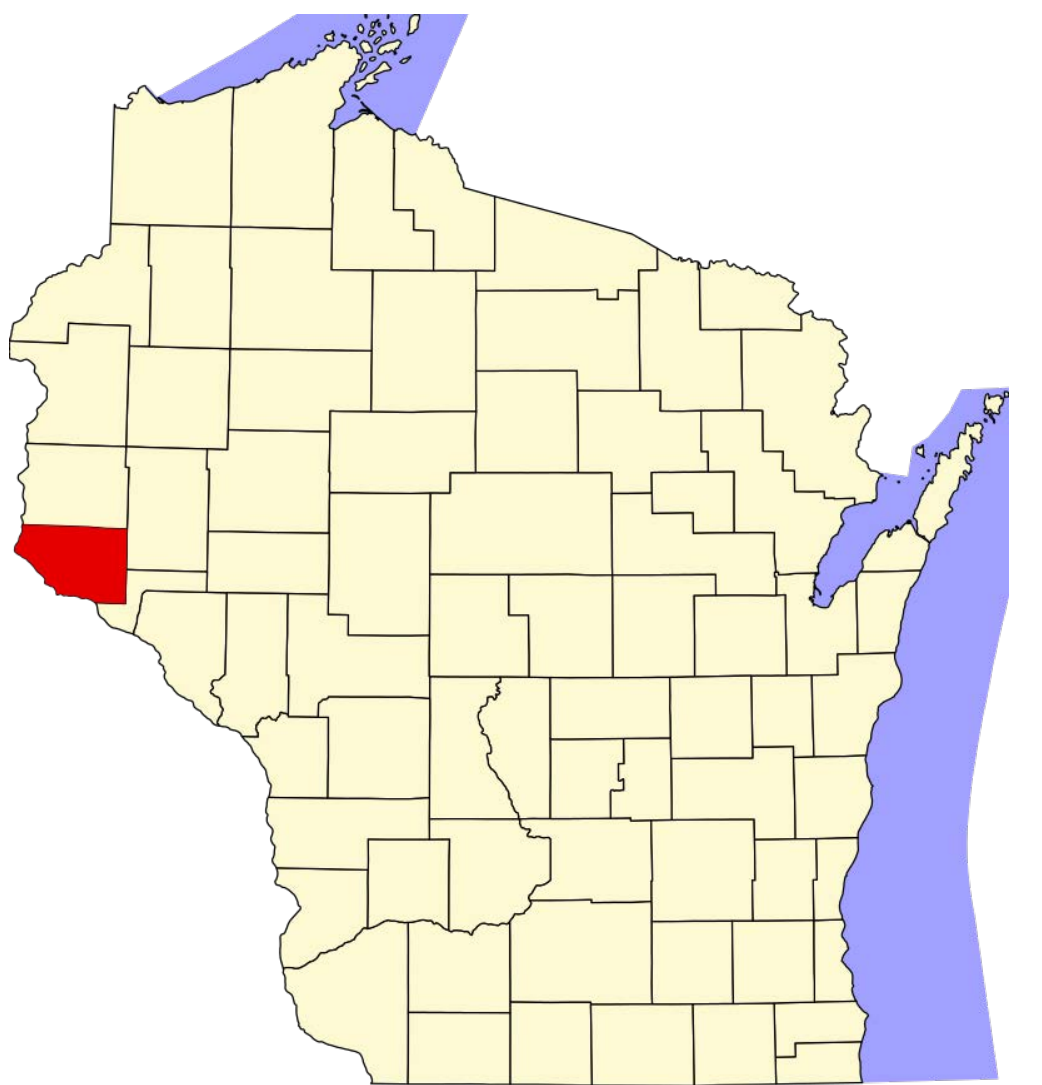
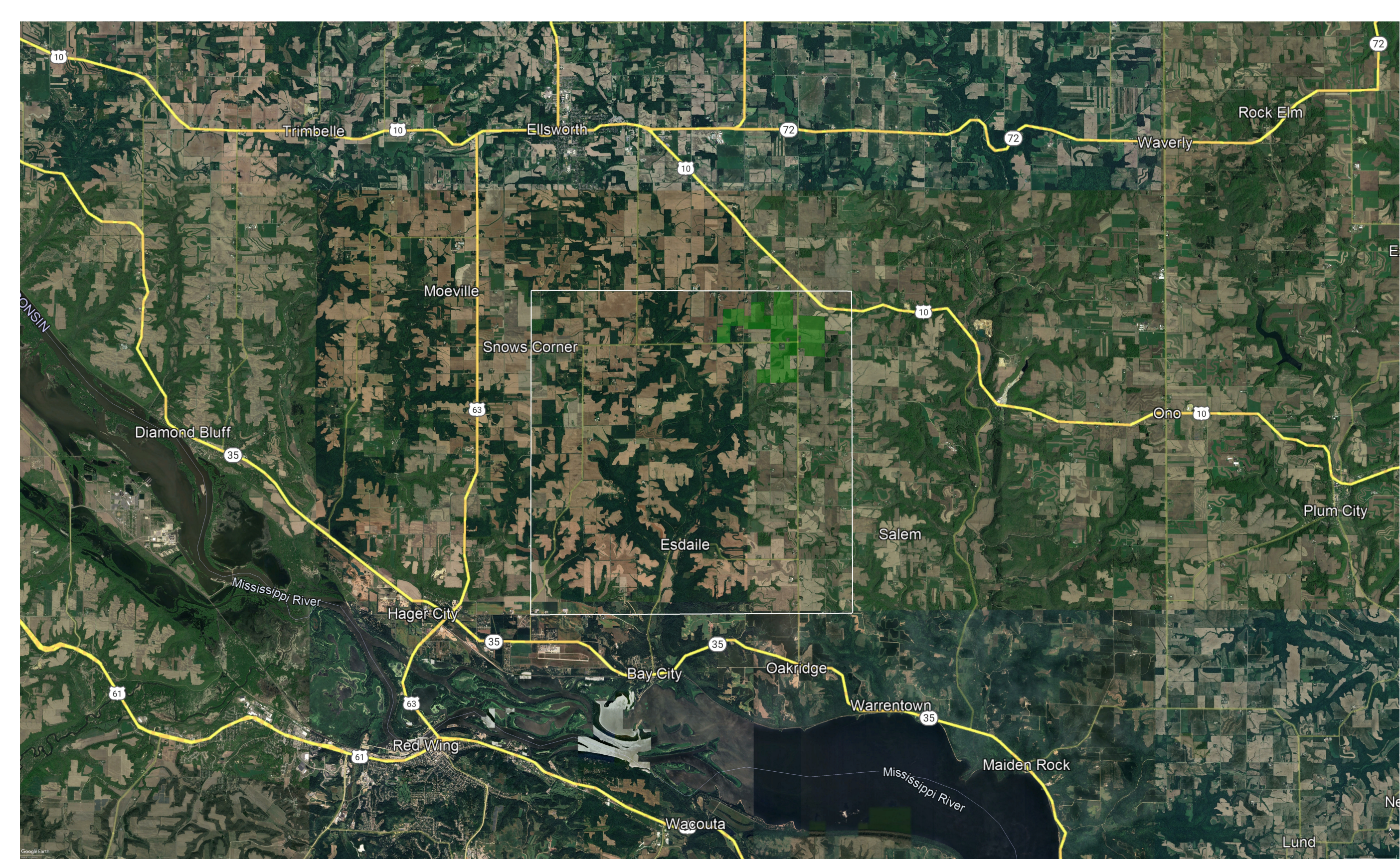
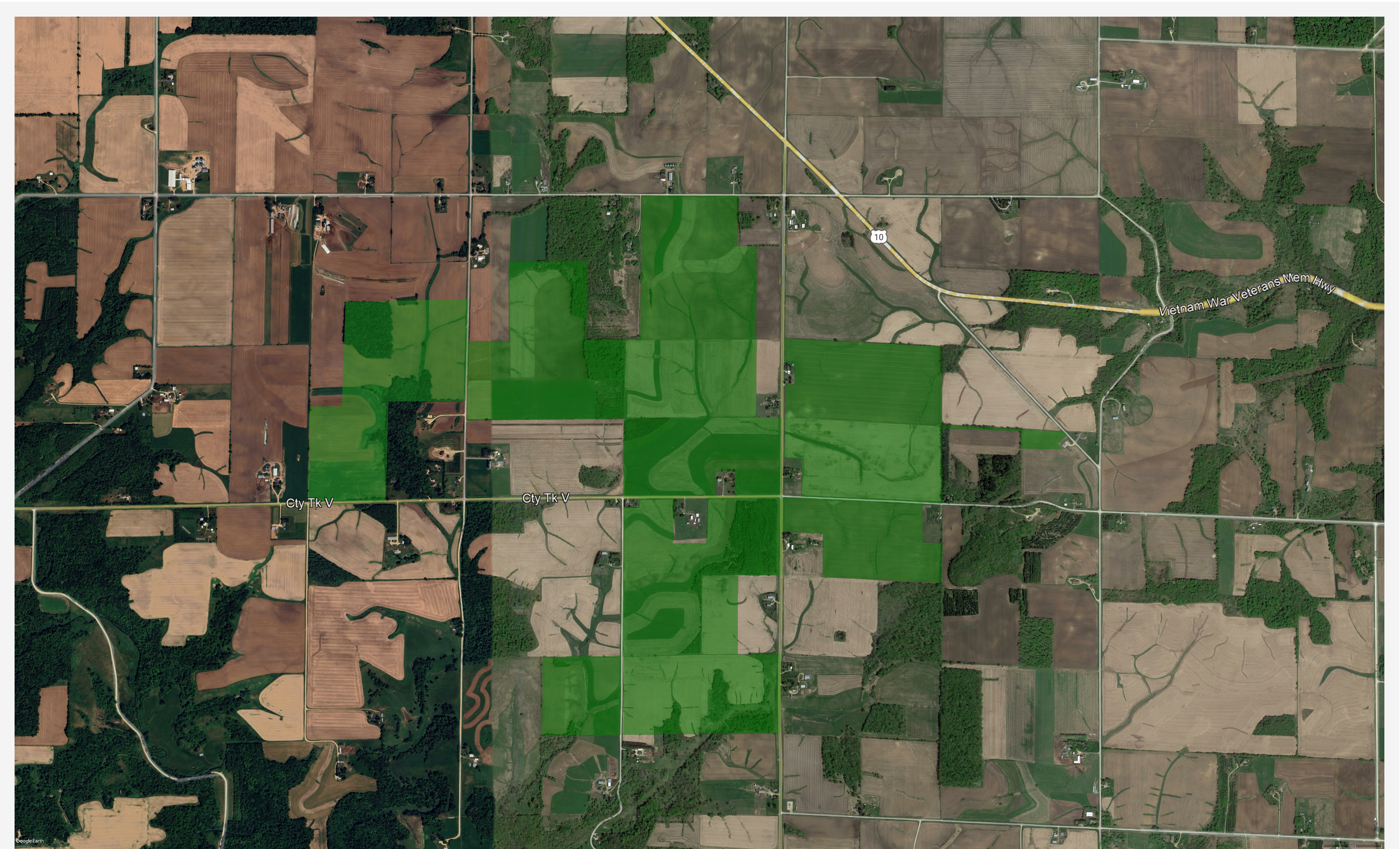
Our focus pillars include the following:

-  Partnering for access to **safe, efficient, and affordable** energy and basic services
-  Partnering for **inclusive** economic growth & education
-  Partnering for the **environment**
-  Partnering for community **health & well-being**

For more information, please contact Wstakeholderrelations@aes.com



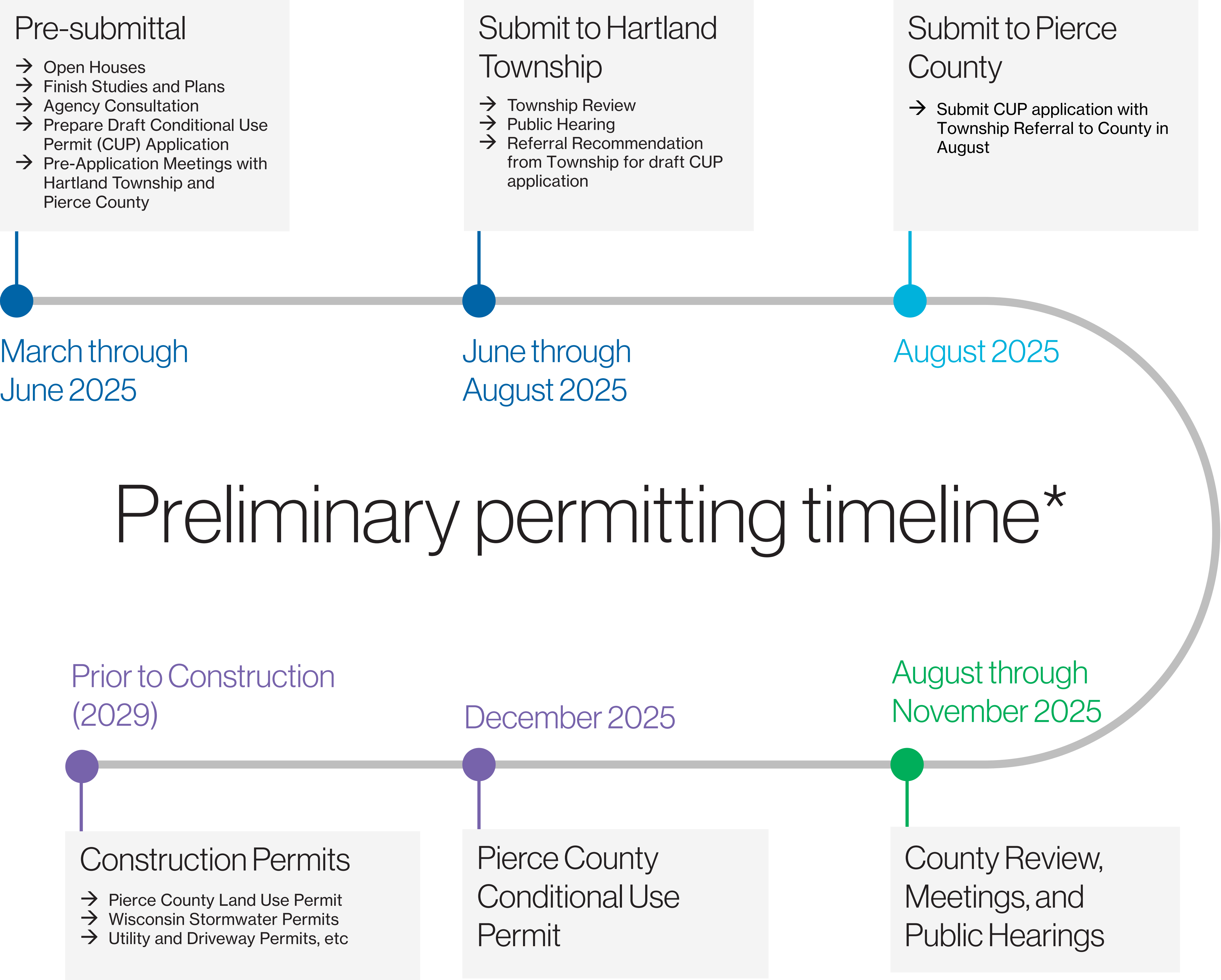
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*Maps depicting participating parcels not site design.



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* Subject to change

