HIGHLIGHTING ENVISION CREDITS

NW2.3 Reduce Pesticide and Fertilizer Impacts

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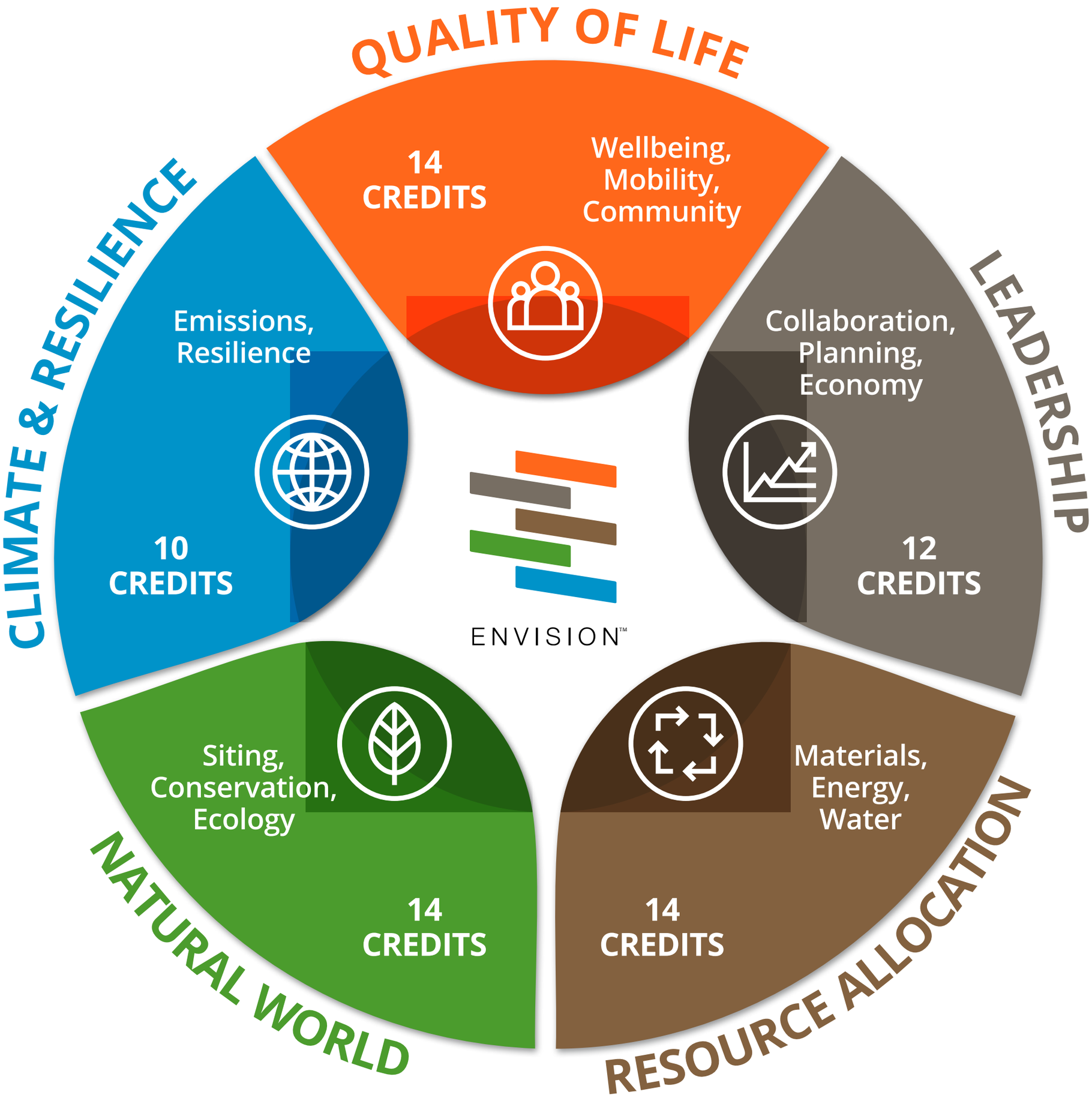
ENVISION™



Envision includes 64 sustainability and resilience indicators, called ‘credits’, organized around five categories.

CREDIT HIGHLIGHT

NW2.3

Reduce Pesticide and Fertilizer Impacts

CREDIT INTENT

Reduce non-point-source pollution by reducing the quantity, toxicity, bioavailability, and persistence of pesticides and fertilizers.

METRIC

Reductions in quantity, toxicity, bioavailability, and persistence of pesticides and fertilizers used on site, selection of plant species, and use of integrated pest management techniques.

NATURAL WORLD: CONSERVATION

WHAT DOES THIS CREDIT ADDRESS?

Reducing the quantity, ***toxicity***, bioavailability, and persistence of pesticides and fertilizers used on site, including the selection of plant species and the use of ***integrated pest management*** techniques.

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WHY IS THIS IMPORTANT?

- Overapplication of pesticides and fertilizers can ***contaminate runoff*** and pollute streams, rivers, lakes, and groundwater.

- Improper application of pesticides can pose risks to ***human health***.

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Project teams should consider:

- How better suited plants can be chosen to grow ***without fertilizers*** and to resist pests.
- Using integrated pest management as a ***low-impact approach*** to addressing pests that includes the selection of hardier pest-resistant plants and natural prevention and control measures.
- The ***socioeconomic benefits*** of reduced fertilizer and pesticide use.

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Guides project teams to:

1. Determine if ***operational policies*** and programs have been put in place to control the application of fertilizers and pesticides.

2. Put ***runoff controls*** in place to minimize contamination of groundwater and surface water.

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Guides project teams to:

3. Design landscaping to require ***fewer pesticides*** and fertilizers.

4. Select pesticides and fertilizers that have ***lower toxicity***, persistence, and bioavailability.

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IN PRACTICE

LEARN MORE

The Creston Solar Project in Creston, Iowa, is a 50-megawatt (MW) solar energy generation initiative that includes a solar array spanning approximately 300 acres, a collector substation, and a 69 kilovolt (kV) overhead transmission line, allowing it to generate clean, renewable energy for customers and the community. The project team designed a pollinator-friendly vegetation management plan to control invasive species and limit the use of herbicides, fertilizers, and pesticides. Alliant Energy has committed to expanding pollinator-friendly habitats in their renewable energy projects to encourage habitat diversity that supports wildlife and to help address an unsustainable global decline in pollinators.

Learn more at sustainableinfrastructure.org