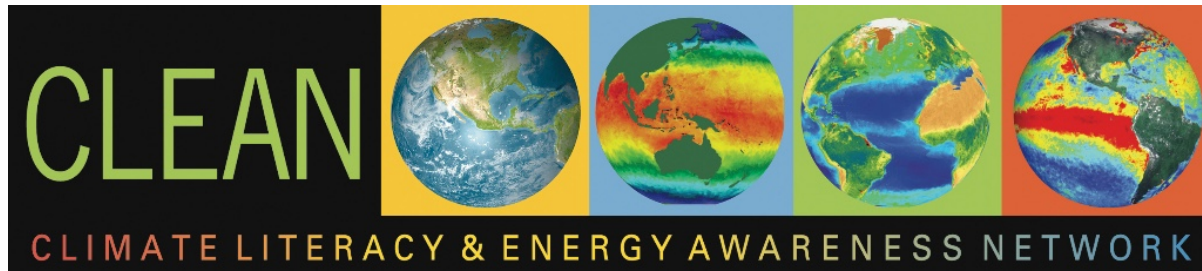
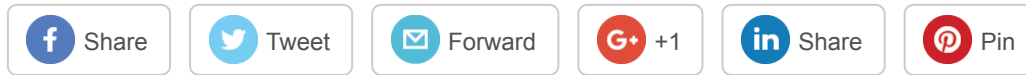


[Subscribe](#)[Past Issues](#)[Translate ▾](#)[View this email in your browser](#)

[Pine Beetle Video](#) | [Feedback Loop Activity](#) | [Invasive Species in the News](#)

CLEAN STEM Flash

A Timely Climate and Energy E-Learning Series to Use and Share

Topic: Invaders from Planet Earth

Help your students understand the intricacies of invasive species and their impact on various ecosystems.

CLEAN Resource Feature

Video: [Dr. Susan Prichard and Pine Beetles](#)

What effect does the pine beetle have on western forests?

Video length: 4:47 min.

Audience: Middle School, High School

Take a look at the CLEAN collection of resources pertaining to [pine beetles](#).

Learn all about this infamous invasive species from Dr. Susan Prichard from the University of Washington. She specifically discusses how climate change and rising

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

CLEAN Resource Feature

Activity: [Climate Feedback Loops](#)

This activity on climate feedback loops covers the ways that invasive species can create a positive feedback loop to destroy an ecosystem.

Activity length: 1 to 2 fifty-minute class periods.

Audience: High School

Browse more activities related to [invasive species](#).

This activity is the seventh of a nine-part lesson on "Visualizing and Understanding the Science of Climate Change." This activity is useful in understanding how negative feedback loops create stable climate systems, while positive feedback loops create unstable systems.



Climate & Energy in the News

Have you ever considered how rat populations could affect coral reefs? This story from [BBC News](#) examines one study in *Nature* that indicates rats have a more substantial negative impact on marine ecosystems than previously thought.

[Subscribe](#)[Past Issues](#)[Translate](#) ▼

Explore the **CLEAN** collection of climate & energy learning resources

CLEAN supports teaching and learning about climate and energy with 700+ free peer-reviewed, scientifically accurate, and classroom-ready resources.

[Browse](#) the CLEAN collection by NGSS topics.

Check out the [CLEAN STEM Flash Library](#) of past issues.

Received this as a forward? [Sign up](#) to get future issues sent to your inbox.



U.S. DEPARTMENT OF
ENERGY



Science Education
Resource Center @ Carleton
College

Copyright © 2018 CIRES Education Outreach. All rights reserved.

clean@colorado.edu

CLEAN is funded by grants from the [National Oceanic and Atmospheric Administration](#) (NA12OAR4310143, NA12OAR4310142), the [National Science Foundation](#) (DUE-0938051, DUE-0938020, DUE-0937941) and the [Department of Energy](#).

Subscribe

Past Issues

Translate ▼

the author(s) and do not necessarily reflect the views of the National Science Foundation.

[unsubscribe from this list](#) [update subscription preferences](#)

