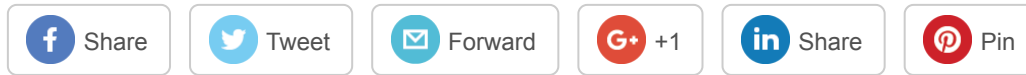
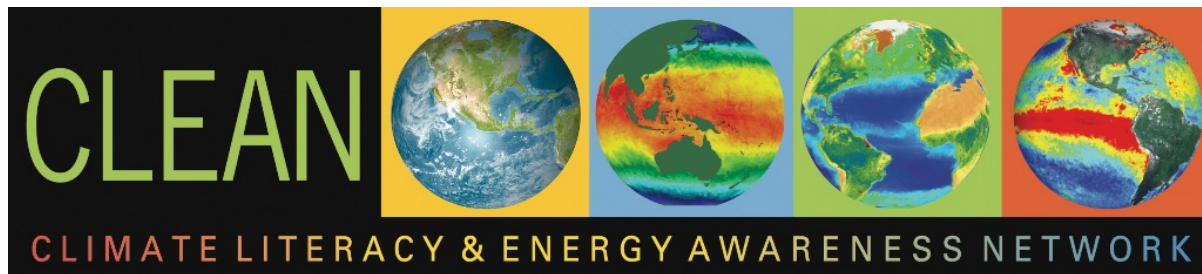


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Topic: Phytoplankton

Your guide to the "base" of the marine food web and its connection to climate and energy.

[The Ocean's Green Machines Video](#) | [Algal Biofuels Activity](#) | [Phytoplankton in the News](#)

CLEAN Resource Feature

Video: [The Ocean's Green Machines](#)

This video gives students an overview about phytoplankton, its environment, and describes the technology used to monitor ocean phytoplankton levels.

Length: 5:34 min.

Explore more resources about [the ocean as a carbon sink](#) at CLEAN.

What are phytoplankton and why do they matter to us? This NASA video illustrates the importance



well as Earth's
atmosphere.

CLEAN Resource Feature

Class Activity: [Algal Biofuels: An Emerging Renewable Energy](#)

With this hands-on activity, students investigate what algal biofuels are, how they are made, where they can grow, and the importance of this emerging renewable energy source.

Audience: Middle and high school students

Look for more resources for teaching about [stored energy from sunlight](#) here!

In this activity from the Kellogg Biological Station, students learn about the basic living requirements of phytoplankton and how it can be used to create algal biofuels. With an in-class game included at the end, this lesson is both informative and engaging.



Climate & Energy in the News

Climate change warms the ocean surface, reducing oxygen levels and impacting phytoplankton populations and the animals that rely upon this food source. This [article](#) from Pacific Standard discusses how increasing sea surface temperatures affect phytoplankton species, including toxic red tides.

rose and fell over the last decade.



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