

SOURCE

Industrial processes powered by coal, oil, or natural gas **release CO₂**.

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Deforestation leads to **greater concentrations of CO₂** in the atmosphere.

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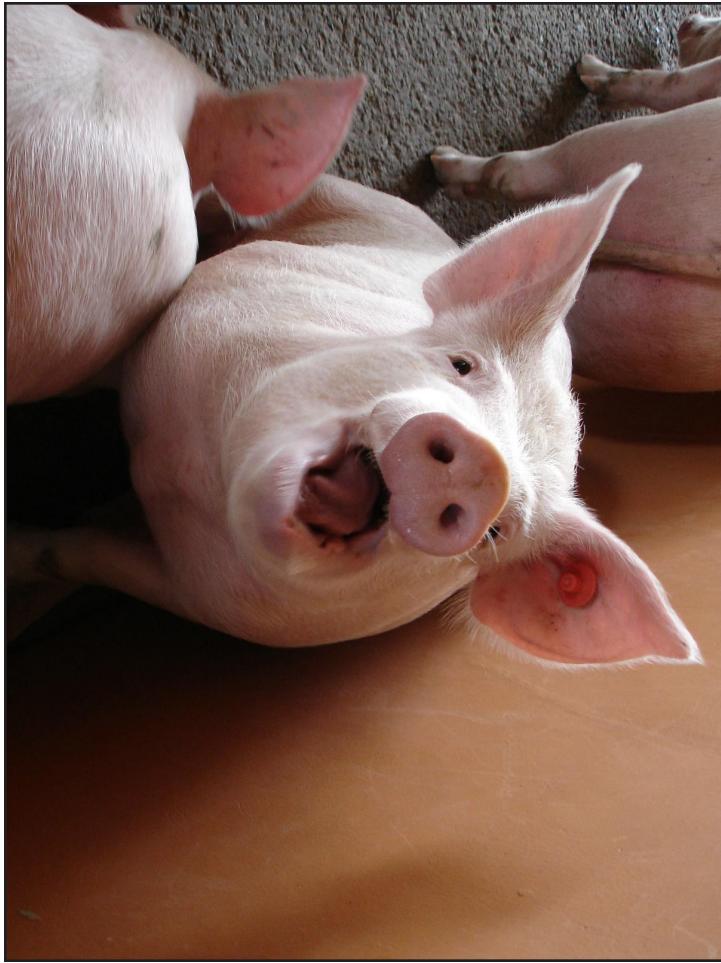
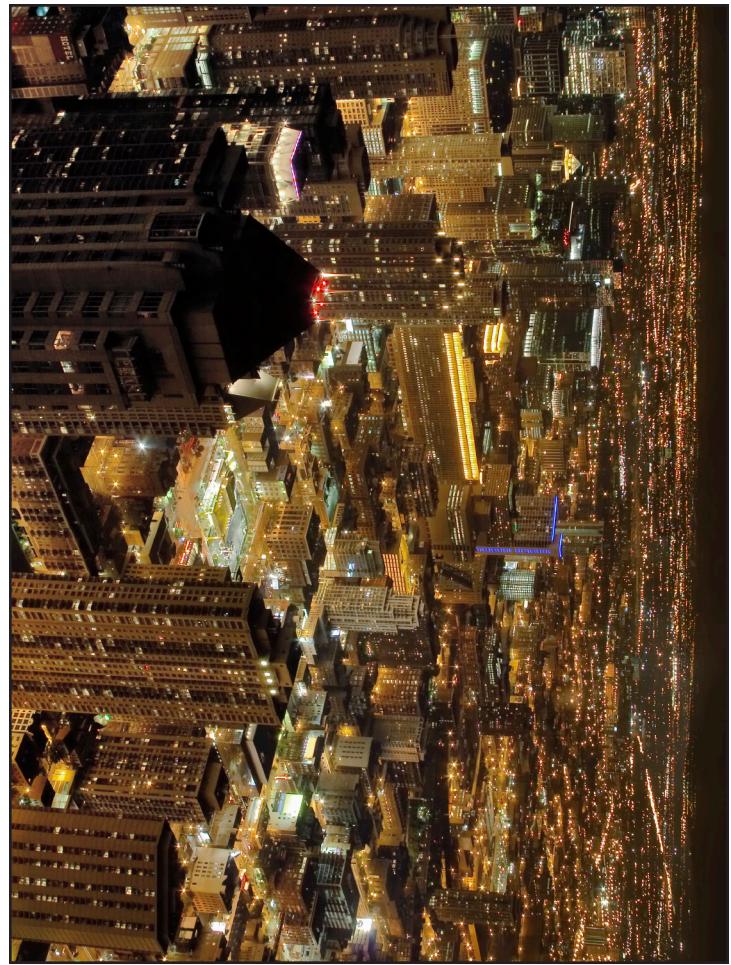
Gasoline is made from oil and **releases CO₂** when it is burned.

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Burning organic matter, like wood, **releases CO₂**.

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As once-living things decay,
CO₂ is released.

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Burning fossil fuels, a process
that **releases CO₂,** produces
most electricity.

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Animals **release CO₂**
when they exhale.

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Volcanoes **release CO₂**
when they erupt.

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Fossil fuels are burned both to grow and transport food to stores.
This **releases CO₂**.

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Heating and air conditioning use fossil fuel-based energy.
Burning fossil fuels **releases CO₂**.

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Plants **use CO₂** from the air to make carbon-based food for growth during photosynthesis.

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Appliances use electricity, most of which is produced by burning fossil fuels.
This **releases CO₂**.

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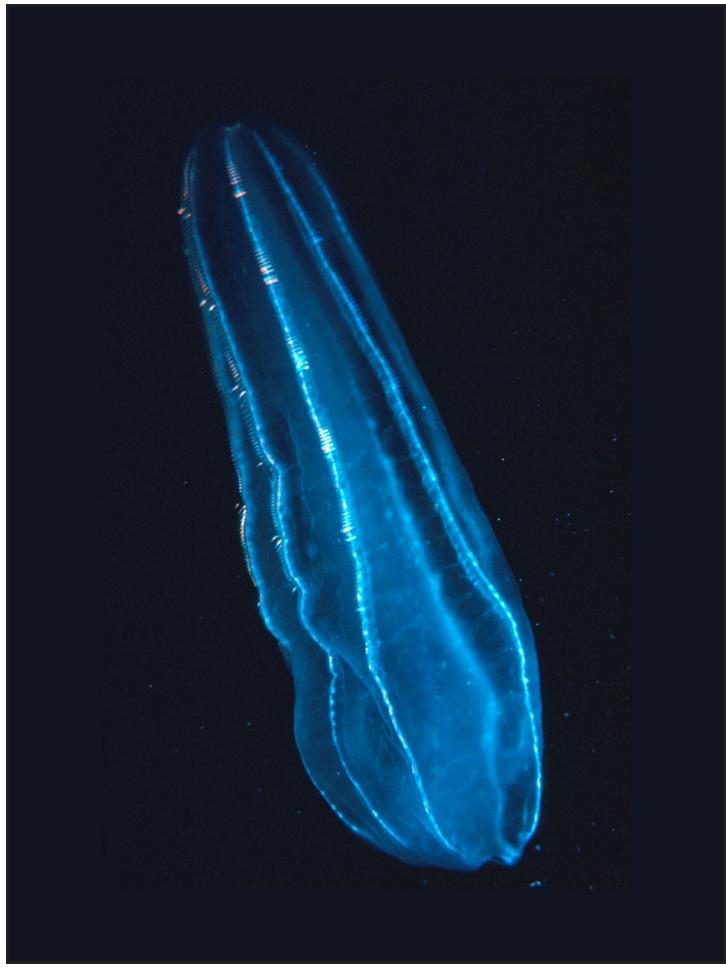
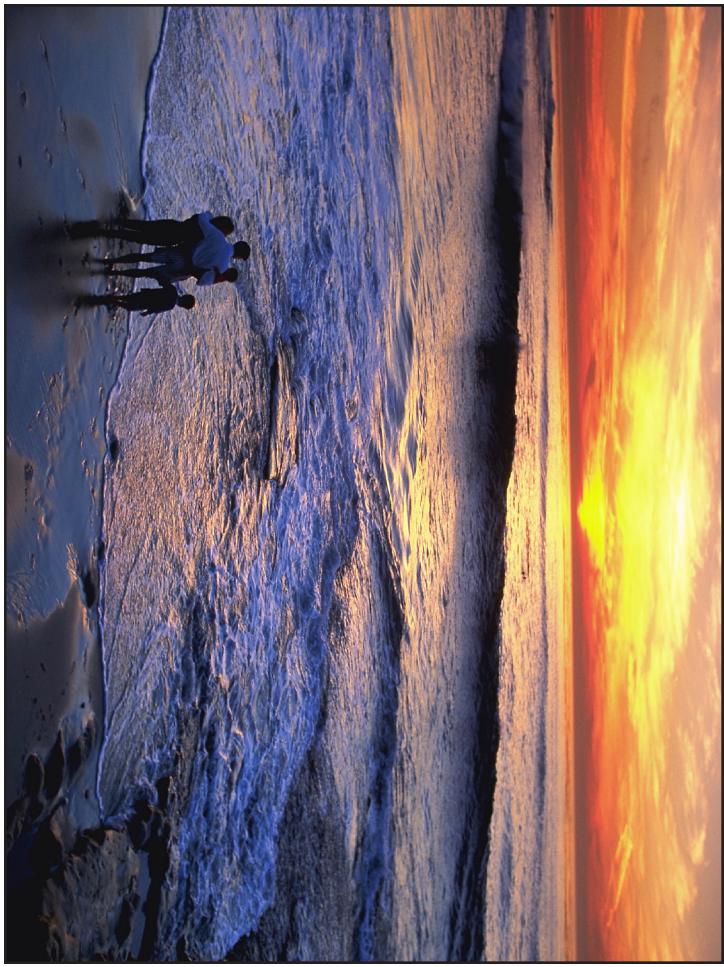
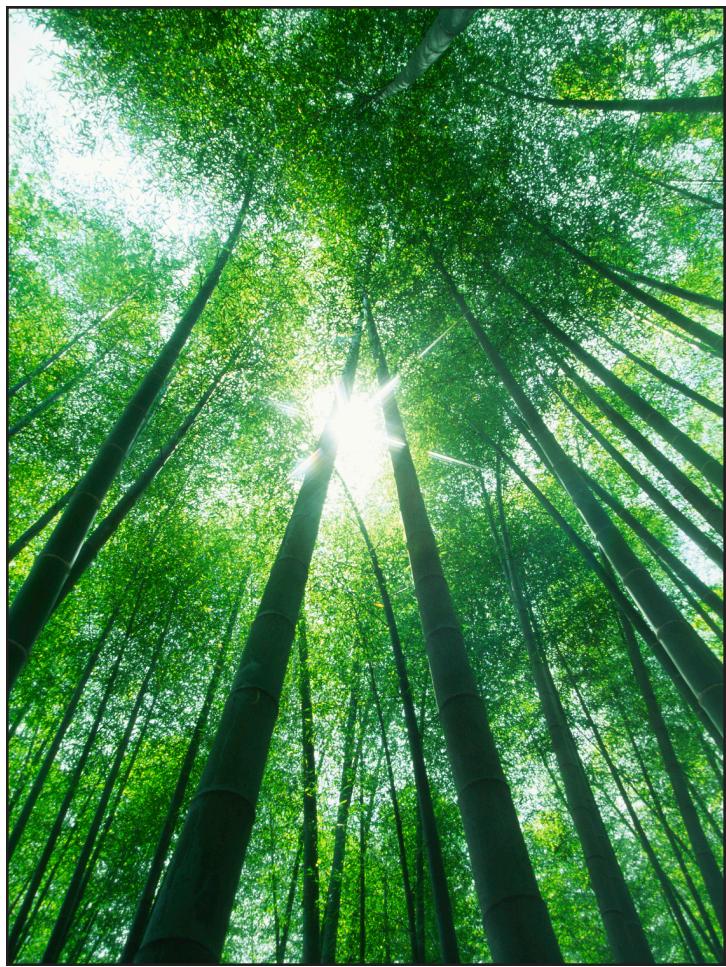


image credit: Shane Anderson

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Phytoplankton in oceans and lakes **use CO_2** dissolved in the water to conduct photosynthesis.

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Trees **absorb CO_2** from the atmosphere during photosynthesis.

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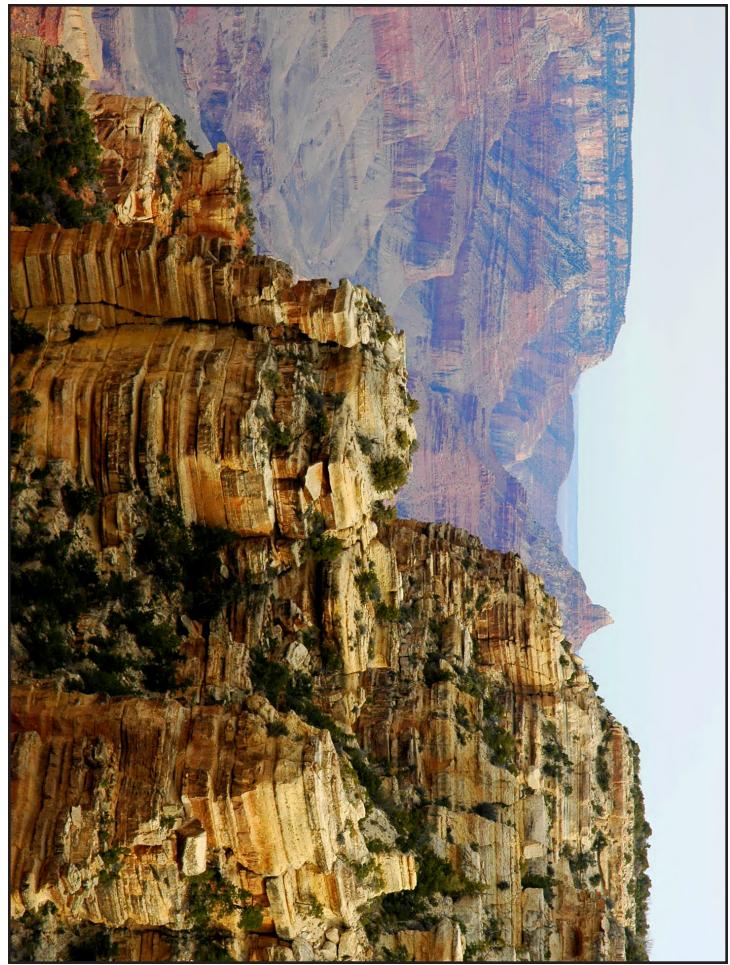
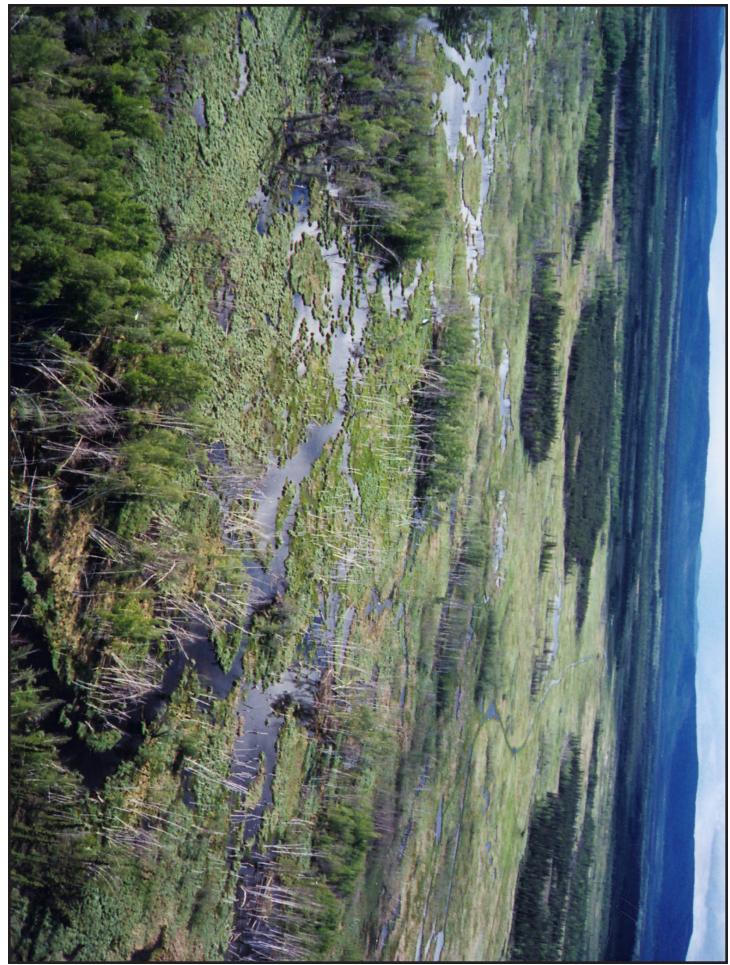
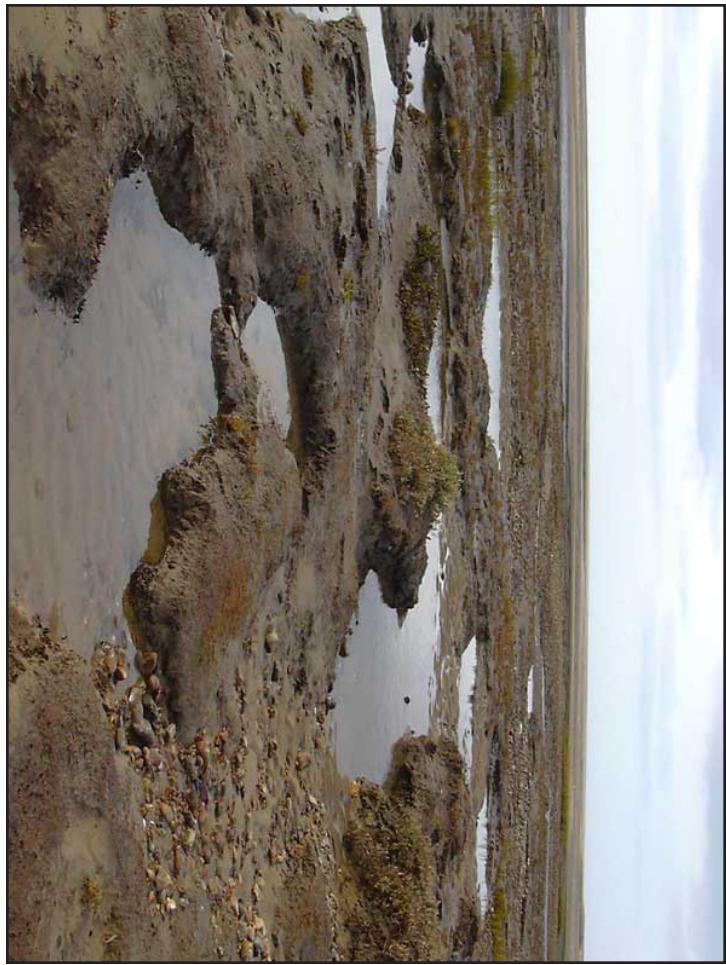
Oceans **absorb CO_2** directly from the atmosphere.

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Reef-building corals **use carbonate made from CO_2** dissolved in seawater to make their exoskeletons.

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Carbon is **fixed into rocks** over millions of years through organic processes on land and on the seafloor.

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Organic matter builds up at the bottom of ponds providing **long-term storage of carbon**.

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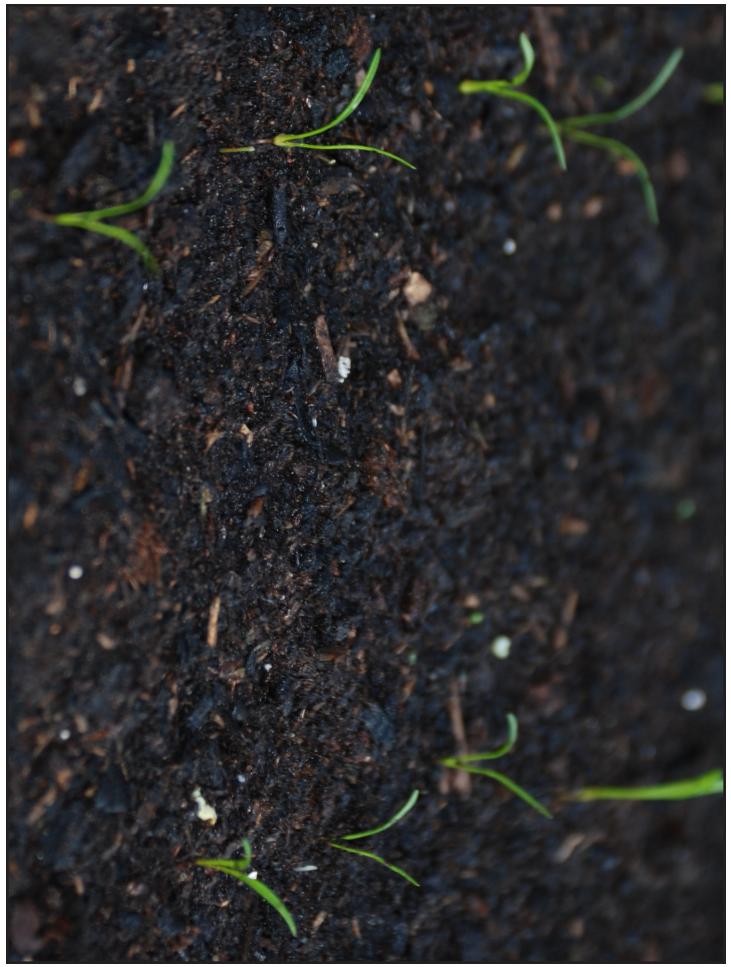
Many marine organisms **extract CO₂** from the ocean to build shells.

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Peat lands **absorb CO₂ from the air and store carbon** from decaying plants and other organisms.

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Diesel fuel is made from oil and **releases CO₂** when burned.

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Burning fossil fuels produces most of the energy that powers our electrical devices.
This releases CO₂.

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Soil **traps carbon left behind after plants decay and can lock it away** from the atmosphere for thousands of years.

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SURPRISE

Wind-powered energy generation is “carbon neutral,” neither a source nor a sink.
No CO₂ is produced or consumed.

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