

# The Greenhouse Effect

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*Fast Facts Series*

## What is the greenhouse effect?



A “blanket” that warms our planet

Earth’s atmosphere naturally contains small concentrations of greenhouse gases. These gases prevent heat supplied by the sun from escaping to the upper atmosphere, warming the planet’s surface. This is known as **the greenhouse effect**.

## What drives warming?

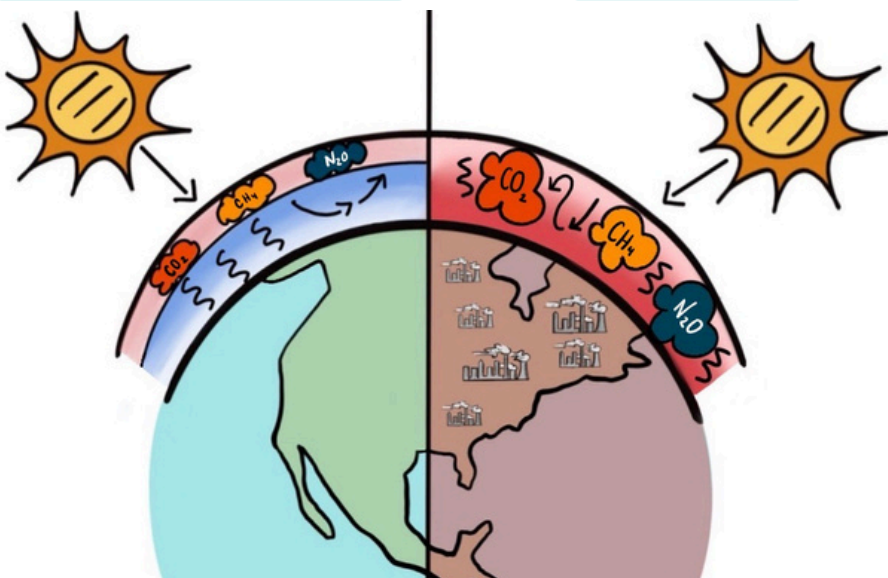


**Human activity exacerbates warming**

Human activity has increased the concentration of greenhouse gases in the atmosphere, resulting in an increased greenhouse effect and warming of the planet.

### Natural Greenhouse Effect

### Human Activity



Some heat passes through the atmosphere. Some is absorbed by greenhouse gases and re-emitted in all directions. The effect of this is to warm the planet’s surface and lower atmosphere.

## Common greenhouse gases

### Carbon Dioxide

Widely acknowledged as the most important greenhouse gas. It is produced naturally and by combusting coal, oil, and natural gas, among other human activities.



### Methane

Naturally occurs in wetlands and termite mounds. It is produced from human activities such as coal mining, natural gas production, waste in landfills, livestock, and agriculture.



### Nitrous Oxide

Emitted during combustion of solid waste and fossil fuels as well as other agricultural and industrial activities.



## SO Why should judges care



As cases involving climate science increase, it is important that judges have an understanding of what drives climate change.



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Providing judges with authoritative, objective, and trusted education on climate science and the law.