



Carbon Offsetting
Paving the Way for a
**Greener
Future**



INVESTMENTS

Greenhouse gases (GHG) are known to trap heat in the Earth's atmosphere, an effect that contributes to global warming.



Of these gases, Carbon Dioxide (CO₂) is the most prevalent.

Breakdown of U.S. GHG Emissions



As significant emitters of CO₂, businesses can play a large part in reducing global emissions.

A company's carbon footprint can be broken down into three scopes:

Scope 1

Direct emissions from company operations



Company vehicles



Factories

Scope 2

Indirect emissions from company operations



Emissions from purchased electricity

Scope 3

Indirect emissions from company supply chains



Raw material extraction



Business travel



Shipping

In most cases, completely eliminating these emissions is not yet possible.

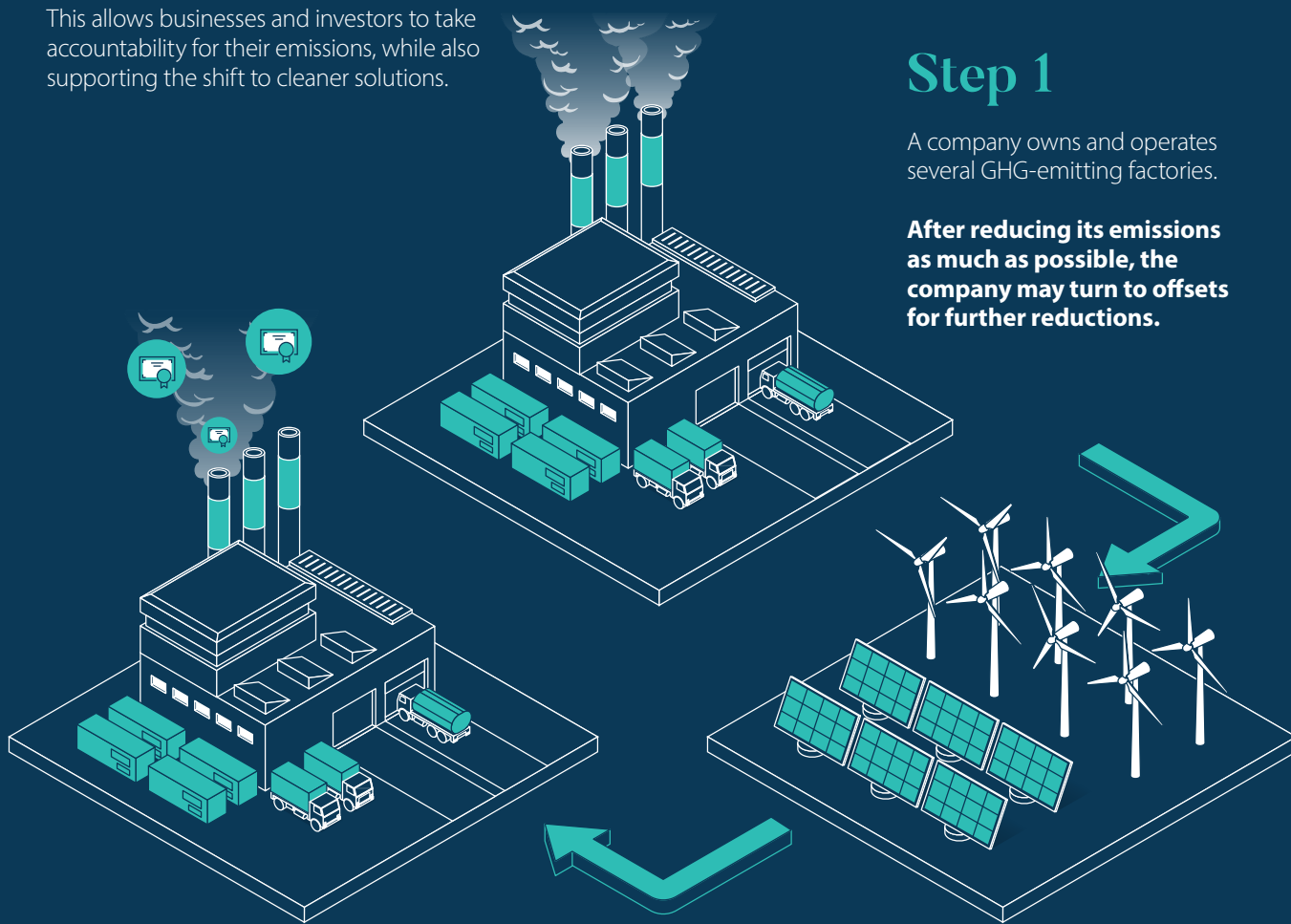
Instead, a company can opt to neutralize its emissions through an activity known as **carbon offsetting**.



What is carbon offsetting?

Carbon offsetting is the method of counteracting emissions by funding GHG reduction projects.

This allows businesses and investors to take accountability for their emissions, while also supporting the shift to cleaner solutions.



Step 1

A company owns and operates several GHG-emitting factories.

After reducing its emissions as much as possible, the company may turn to offsets for further reductions.

Step 3

The company receives carbon credits in return for its investments, which it uses to counteract its emissions for the year.

An important aspect for any carbon offsetting transaction is the effectiveness of the underlying project.

Step 2

The company makes investments in several GHG reduction projects.

The environmental benefits of these projects, expressed in tonnes of CO₂ equivalent (CO₂e), are certified by carbon credits.



One carbon credit

=



One metric ton of carbon emissions

GHG reduction projects focus on several areas:



1 Energy efficiency

These projects reduce our current energy consumption.

Project example

Replacing firewood and charcoal with fuel-efficient stoves reduces emissions and improves living conditions.

Examples of eligible projects:



Installing efficient light bulbs and cookstoves in households



Generating sustainable electricity from wastewater biogas



2 Nature-based Projects

These projects involve the conservation, restoration and management of natural ecosystems.

Project example

Protecting California's redwood forests to maintain their environmental integrity while sustaining the local timber economy.

Examples of eligible projects:



Planting, regenerating, and protecting forests



Transition to sustainable farming practices



Protect and restore mangroves, wetlands, and peatlands



3 Renewable energy

These projects reduce our reliance on fossil fuels.

Project example

Building wind farms in Taiwan can improve Taiwan's national security and future prosperity.

Examples of eligible projects:



Powering countries with wind, solar, and geothermal energy



Capturing methane from landfills and converting to electricity

Businesses aren't the only entities that can offset their GHG emissions.

Consider a sustainably managed strategy that wishes to neutralize the carbon of its investments.

Portfolio holdings

Associated emissions

Company A



20% ownership
stake in Company A



The company emits **10,000 metric tons of CO₂** annually



The fund is seen as "emitting" **20% of the company's emissions**



The fund would require **2,000 carbon credits** to offset its associated emissions

Company B



5% ownership
stake in Company B



The company emits **50,000 metric tons of CO₂** annually



The fund is seen as "emitting" **5% of the company's emissions**



The fund would require **2,500 carbon credits** to offset its associated emissions

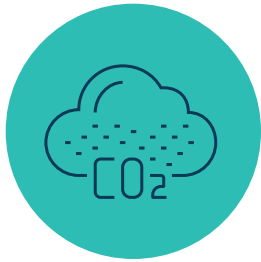
Carbon offsetting can allow an investment strategy to neutralize its associated emissions.

How is offsetting regulated?

The market for carbon offsets is not regulated by a sole entity.

Instead, verification is provided by third-party organizations such as Verra, Gold Standard, or American Carbon.

Carbon credits are only issued after a project has undergone a verification process covering four broad criteria:



Measurability

The GHG savings of the project must be measurable.



Verifiability

The results of the project must be verified by an independent auditor on an annual basis.



Sustainability

Each project should have a minimum lifespan of seven years.



Additionality

The GHG reductions of the project must be considered in reference to a baseline scenario.

Carbon offsetting in the U.S. is primarily a voluntary activity, but several states have made it mandatory for significant polluters.

Case study

California's Cap and Trade

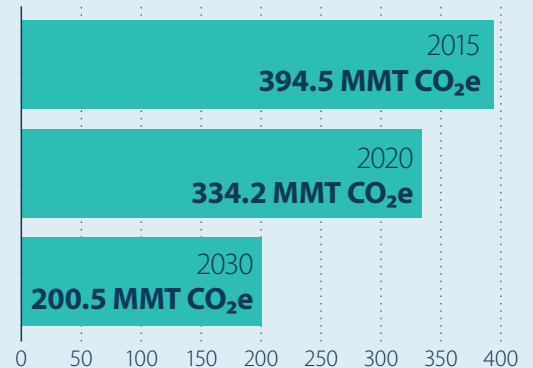
California's cap and trade program is one of the world's largest regulatory emissions programs.

What is it?

The program is overseen by the California Air Resources Board, which issues annual emissions allowances to significant polluters.

This allowance sets a "cap" on total GHG emissions, and is reduced over time.

California emission allowances, in million metric tons (MMT)



Who does it affect?

California's cap and trade program applies to significant polluters such as:



Power plants



Industrial facilities



Fuel distributors



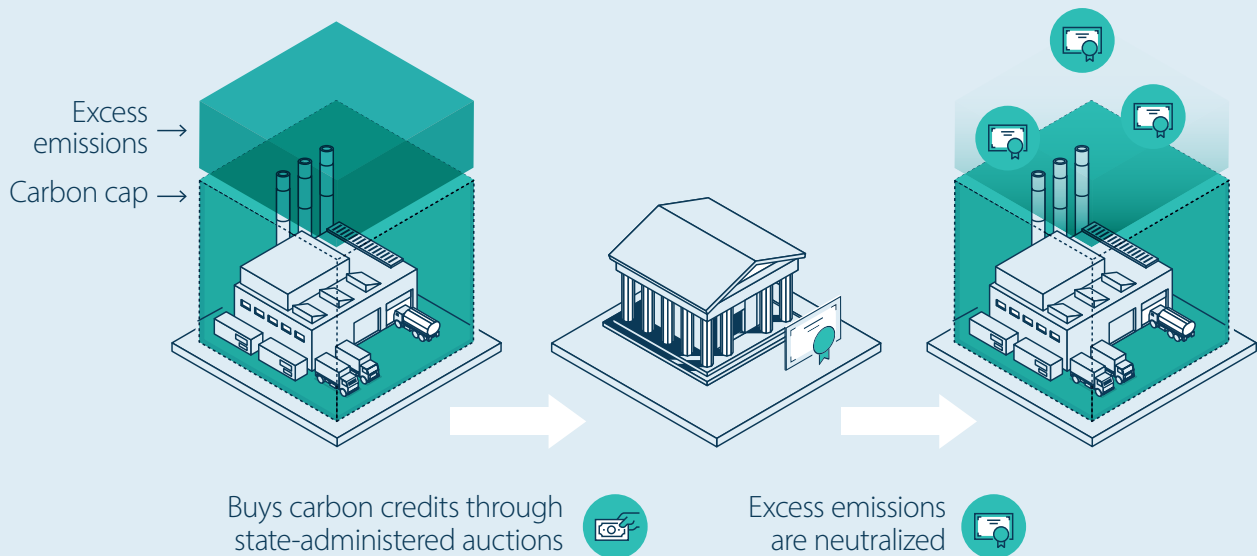
Businesses that emit more than 25,000 metric tons of CO₂e/year are subject to regulation.



Entities in-scope can offset 4% of their emissions with carbon offsets. Half of these offsets must directly benefit California.

How does it work?

Businesses must acquire carbon credits to offset any emissions in excess of the cap.



Benefits

California's carbon credit auctions have generated \$13.6B in revenues since the start of the program.

These revenues are used to fund various projects across the state:



1,069 transit agency projects funded



891,000 acres of land preserved or restored



201,125 urban tree plantings



10,399 affordable housing units under contract

Source: California Climate Investments, 2023

Investors are driving the shift to

carbon neutrality

Shareholder concern and regulation has pressured corporations to increase their sustainability efforts and report on their progress.



Number of S&P 500 companies publishing sustainability reports

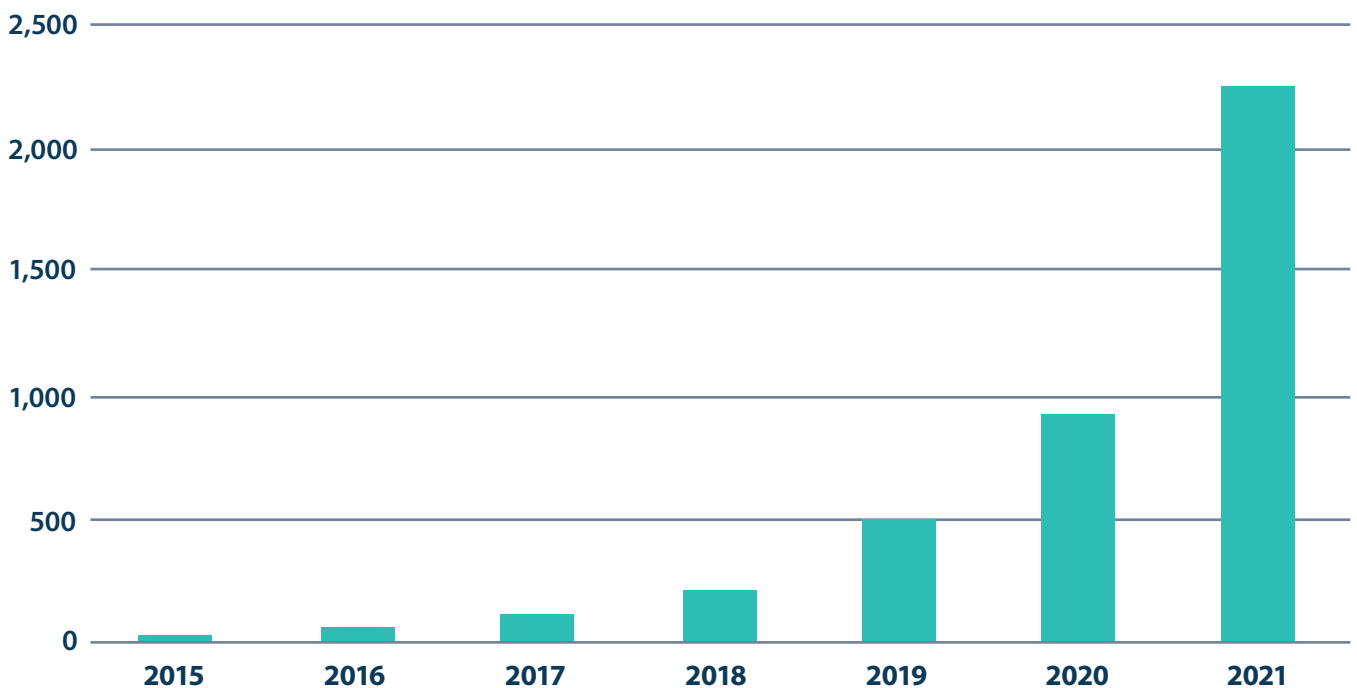
2011 **20%**

2022 **98%**

Source: Governance & Accountability Institute, 2023

In addition, a record number of companies have committed and set GHG emissions reduction targets in line with the Science Based Targets initiative (SBTi).

Annual cumulative number of companies with emissions reduction targets and commitments, 2015-2021



Source: SBTi, 2022

The consequences of global warming are becoming more evident, and significant investment will be required to develop sustainable solutions.

In this regard, carbon offsetting can be a powerful tool used by both businesses and investors.



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