

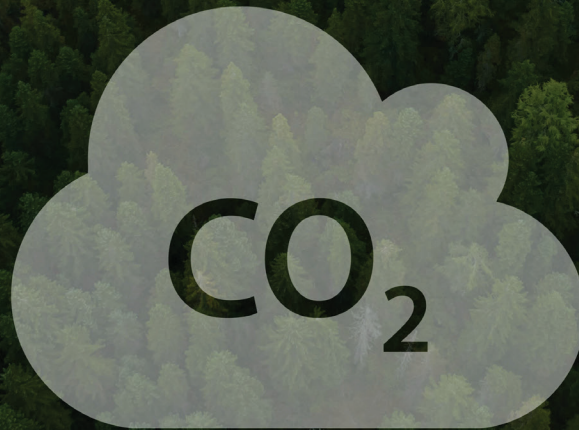


# The Armor Guys **CO<sub>2</sub>** Footprint

Assessed by official 3<sup>rd</sup> party testing with **SGS** to ensure accuracy of reduced CO<sub>2</sub> emissions efforts.





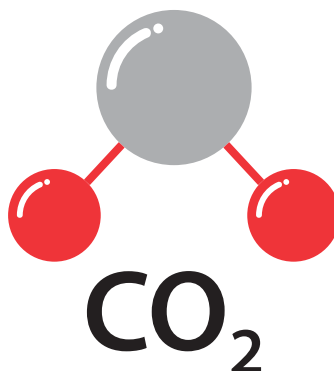


# What is CO<sub>2</sub>?

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Carbon dioxide (CO<sub>2</sub>) is a colorless and odorless gas that is a natural component of the air and part of the global carbon cycle. The role of CO<sub>2</sub> in our climate is crucial: it absorbs some of the heat radiated from the earth and reflects it back to the earth's surface. This natural greenhouse effect regulates the climate on our planet and creates the conditions in which

flora and fauna can thrive. It plays an important role in photosynthesis, in which plants convert CO<sub>2</sub> into oxygen. At the same time, CO<sub>2</sub> is a significant greenhouse gas that contributes to global warming and climate change. Its concentration is influenced by natural processes and human activities such as the burning of fossil fuels.





# What are CO<sub>2</sub> emissions?


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CO<sub>2</sub> emissions are the release of carbon dioxide into the atmosphere. They are produced by a number of human activities, such as burning fossil fuels, manufacturing cement, deforestation, land clearing, soil degradation and gas flaring to name a few. CO<sub>2</sub> (carbon dioxide) plays a central role in climate change as it is one of the most important greenhouse gases. Greenhouse gases act like a

blanket that traps the heat emitted from the earth's surface and retains it in the atmosphere. Without greenhouse gases such as CO<sub>2</sub>, the Earth would be too cold to support life as we know it. However, the increase in CO<sub>2</sub> concentrations in the atmosphere, which is primarily caused by human activities, has significantly intensified this effect. CO<sub>2</sub> (carbon dioxide) plays a central role in climate change.







85%  
RENEWABLE  
ENERGY

## Armor Guys Sustainability Efforts

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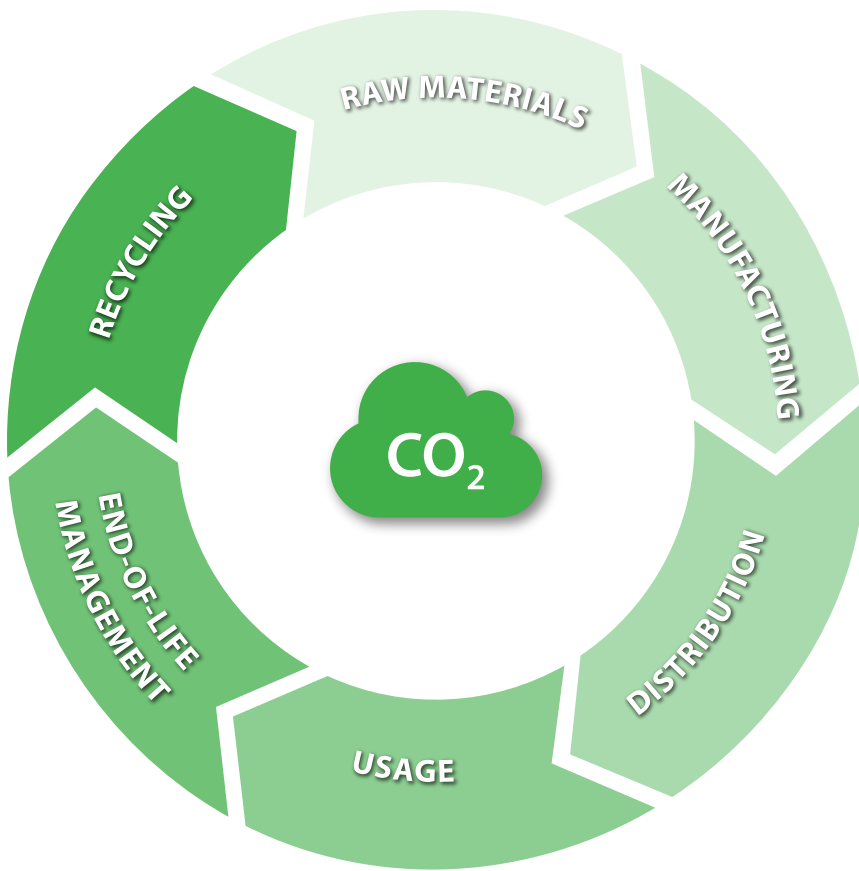
Armor Guys has long been a pioneer in responsible and environmentally friendly manufacturing practices. Over the past 30 years, we have remained committed to doing our part to produce protective gloves in the most ethical and environmentally friendly way possible.

Our manufacturing plant has implemented the following to maintain our sustainability practices:

- 516,667 square feet (48,000 square meters) of rooftop solar installations
- Waste gas control facility
- Wastewater treatment facility

- 2 large energy-saving air compressors (110KV)
- 2 large energy-saving air compressors (35KV)

With the above efforts, our manufacturing facility has managed to generate **85% of our factory's electricity with solar energy.**



## How are we reducing our $\text{CO}_2$ footprint?



Along with our sustainability efforts, Armor Guys has measured its greenhouse gas emissions across the entire life cycle of its gloves, from raw material extraction to disposal.

Through a comprehensive assessment conducted by **SGS**, the world's leading testing, inspection and certification company, Armor Guys has measured its greenhouse gas emissions across the entire life cycle of its gloves. The impact studies measured both cradle to gate and cradle to grave life cycles.

This assessment follows globally recognized standards such as ISO 14040, 14044 and 14067, ensuring a high level of accuracy and alignment with international sustainability guidelines.

**SGS** found that Armor Guys' use of **graphene fiber** in its gloves **reduces  $\text{CO}_2$  emissions by up to 30%** compared to gloves made with traditional materials.

This demonstrates how the potential of advanced materials and technologies can help reduce environmental impacts.

**Cradle to gate:** the carbon footprint of a product from the moment raw materials are extracted from the earth until the product is ready to leave the factory.

**Cradle to grave:** the total environmental impact of a product throughout its entire life cycle; from the extraction of raw materials to its final disposal.

# Carbon footprint flow chart:

