



REDUCING GREENHOUSE GASES

What is a Greenhouse Gas and why is it important to reduce this volume?

Greenhouse gases (GHGs) are gases in Earth's atmosphere that trap heat. They let sunlight pass through the atmosphere, but they prevent the heat that the sunlight brings from leaving the atmosphere. Greenhouse gases are a good thing, otherwise our planet would freeze, but too many GHGs can alter climate and weather patterns at global and regional scale.

The GHG Protocol has classified a company's GHG emissions into three scopes:

Scope 1 Emissions	Scope 2 Emissions	Scope 3 Emissions
Direct emissions from operation (1.2. company facilities, company vehicles).	Indirect emissions from purchased energy (i.e. purchased electricity, steam, heating & cooling for own use).	All other indirect emissions associated with a company's activities (i.e. leased assets, employee commuting, business travel, waste generated in operations and waste disposal, emissions from the use of a product or service sold).

Greenhouse Gases that are used in our industry:

Common Name	Chemical Name	CAS#	GWP (Global Warming Potential)*
Carbon Dioxide		124-38-9	1
HFC-134A	1,1,1,2-tetrafluoroethane	811-97-2	1430
HFC-152A	1,1-difluoroethane	75-37-6	124
HFC-365mfc	1,1,1,3,3-pentafluorobutane	406-58-6	794
HFC-43-10mee	1,1,1,2,2,3,4,5,5,5-Decafluoropentane	138495-42-8	1640

*According to the EPA, the Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO₂).

How can CRC help you reduce Scope 1 emissions?

- As part of our Risk Reduction Partner Program we provide assistance to reduce your GHGs related to maintenance chemicals. Ultimately, we will cross-reference end-users' maintenance chemicals to lower GHG alternatives from the CRC product offering.
- CRC Regional Managers, with consult from our Regulatory and R&D teams, will provide the service of reviewing each SDS of the current products and suggest alternative CRC solutions with lower GWP values. For example: Changing from a HFC-134A product to a HFC-152A product is a significant reduction in GWP for your facility.
- CRC Regional Managers will document the findings and share the potential annual GWP reductions realized by switching to CRC solutions.
- This service is valued at a minimum of **\$7,500**.

**TOGETHER,
WE GET IT DONE.**