



June 9, 2022

Locking carbon emissions in solid carbon CREATE Update

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Forward-Looking Information

Helping Industry Meet Environmental Goals

Over 3,000 companies have detailed plans for net zero by 2040 ([SBTi](#))

Materials or energy



Construction



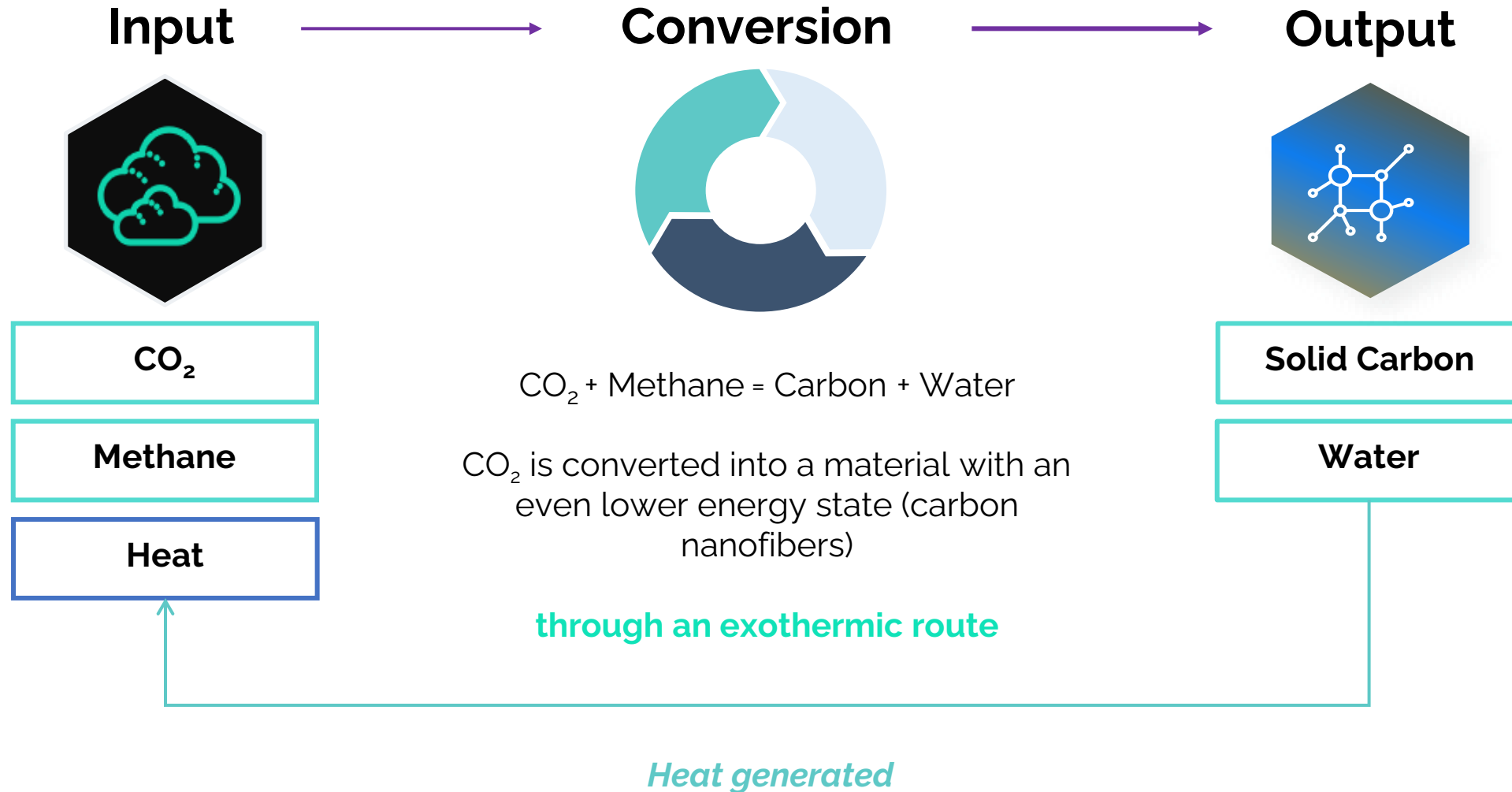
Auto manufacturing



Carbonova offers a unique solution for these companies to reach their target through locking CO2 emissions in innovative products.

Patented Catalytic Conversion Process

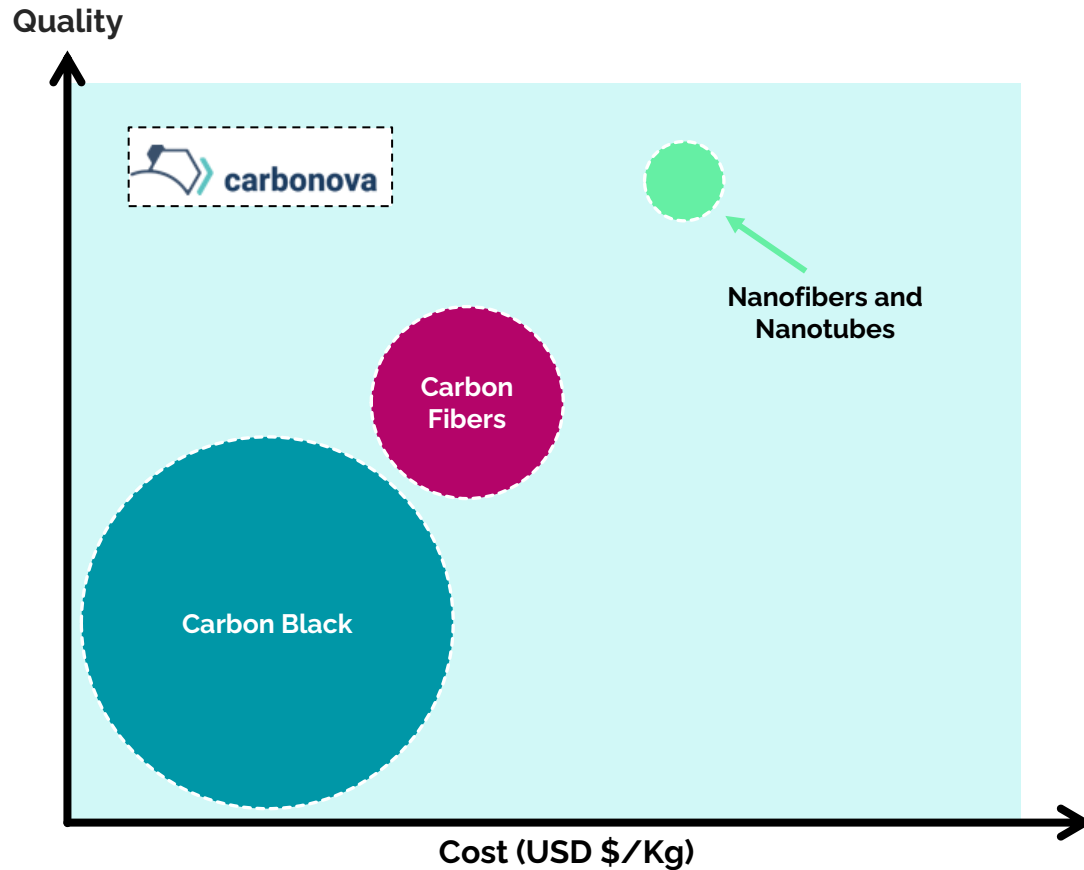
Simple process using lower temperatures than competing technologies



Carbonova Target Market

Exceeded our competitor's product quality with a simpler, lower cost process

Target Market

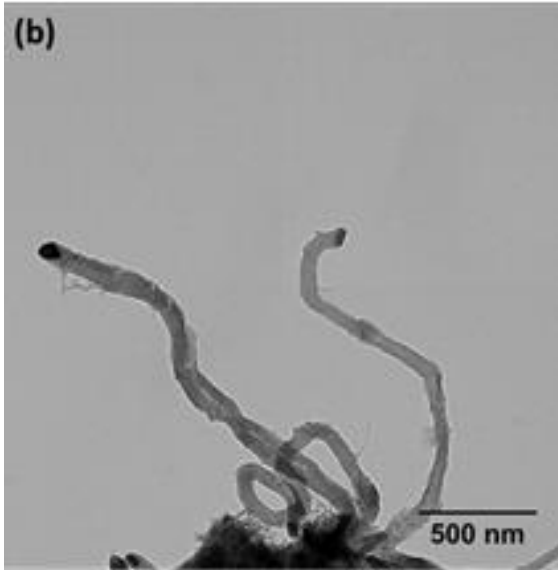


Note: Bubble size indicates relative proportion of market share

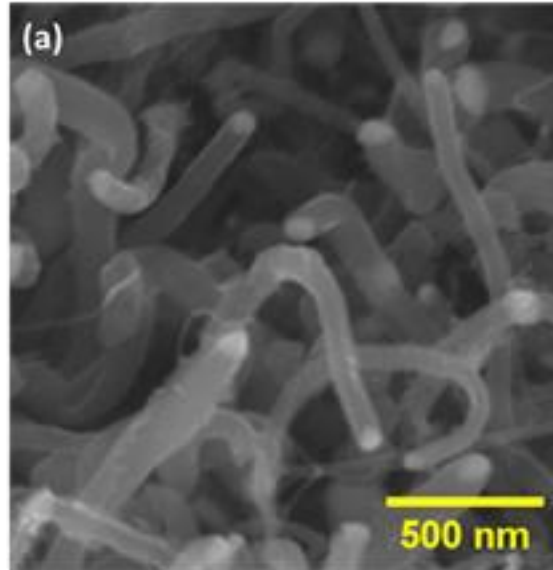
Carbonova Advantage

- Low-cost production
 - Scalable and repeatable process
 - Proprietary process and catalyst formulation
 - Reducing greenhouse emissions
-
- Access to over US \$20B market for solid carbon materials

Product Testing



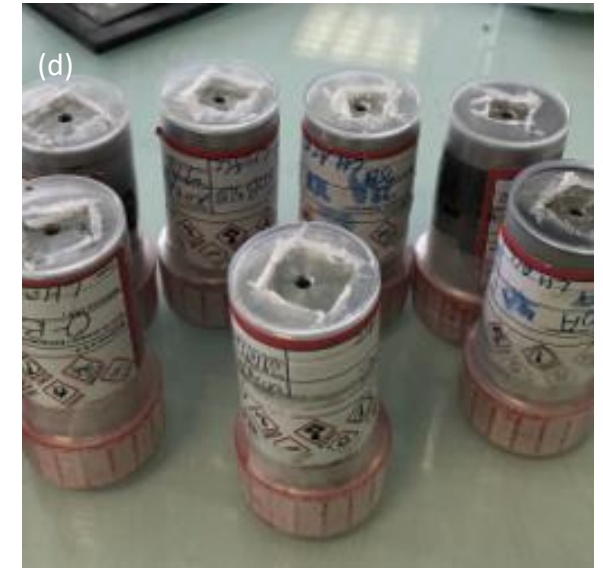
Microscopic images of carbon nanofibers



Microscopic images of carbon nanofibers



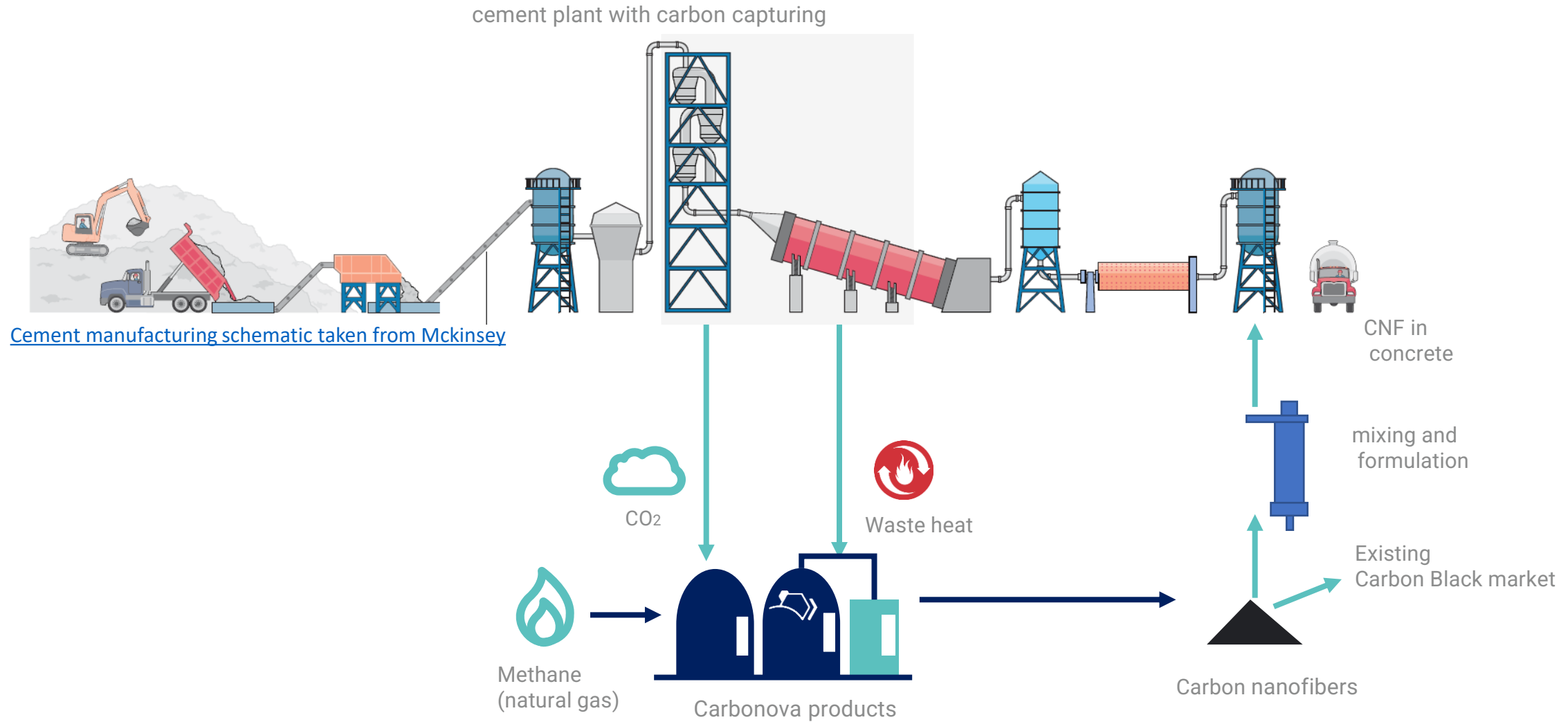
CNF Ink Ready for Shipment



CNF ink at R&D facility in France

CREATE Project

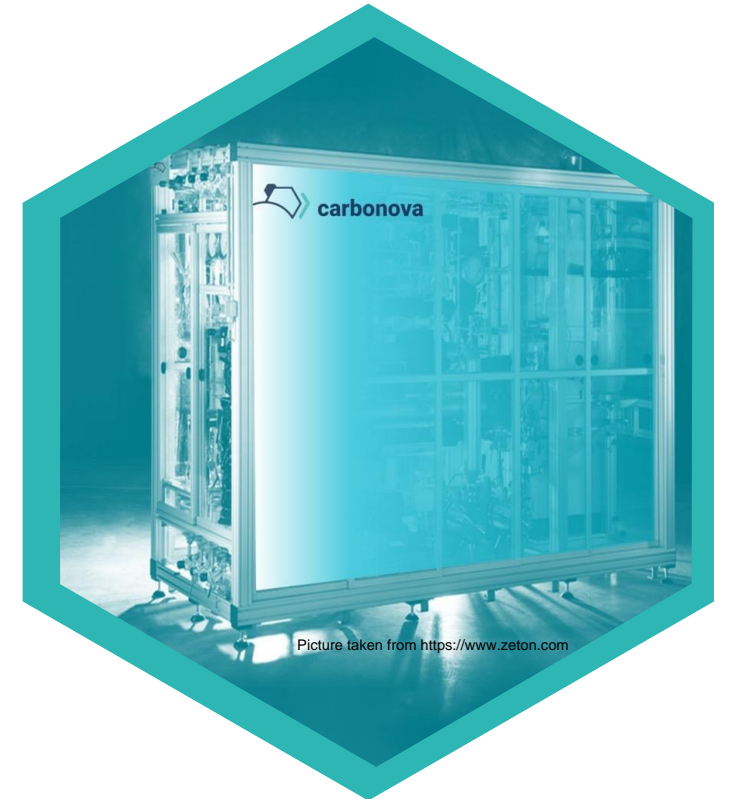
“Carbon Reforming to Economic Additives Transitioning to an Emission-less Era”



Pilot Project

Completed on time and on budget, proving technical viability

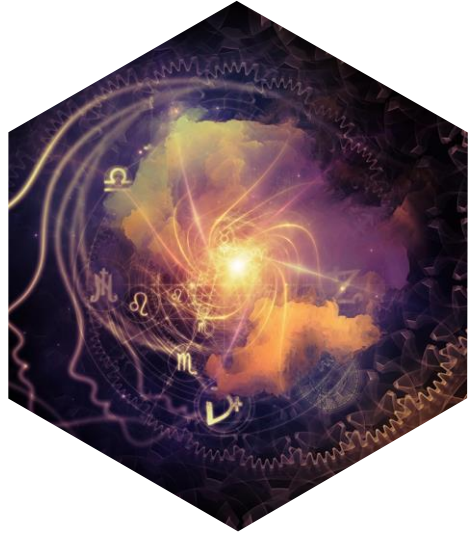
- Pilot plant constructed, commissioned on budget and ahead of schedule
 - Completed in January 2022- currently operating and providing products for testing.
- All key performance indicators were achieved:
 - Quality targeted achieved
 - Exceeded our competitor's product quality with a simpler lower cost (lower temperature) process



Next Steps (2022 to 2024)

- Assess Carbonova's process integration into a cement plant, include safe handling procedures
- Technical specifications for dispersion in a liquid /solvent
 - Evaluate dispersion of admixture
 - Safety lab procedures for CNF lab testing
- Carbon nanofibers dispersion at a lab scale integration in formulations, and value assessment
- Carbon nanofibers dispersion at an industrial level
- Added value assessment to integrate CNF in cements and concretes: specific applications, CO2 footprint reduction...
- Life Cycle Assessment (LSA) of carbon nanofibers
- Business model verification and refining
 - Revise business model based on learnings of the project
 - Techno-economic analysis of Carbonova process within a cement plant

Why Carbonova?



Proven technology with IP assets & line of sight to commercialization

Strong team and strategic partners

Extraordinary value potential

Diversifying Alberta economy and reducing GHGs impacts

Imagine a City
Made of greenhouse gases instead of
PRODUCING greenhouse emissions