



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



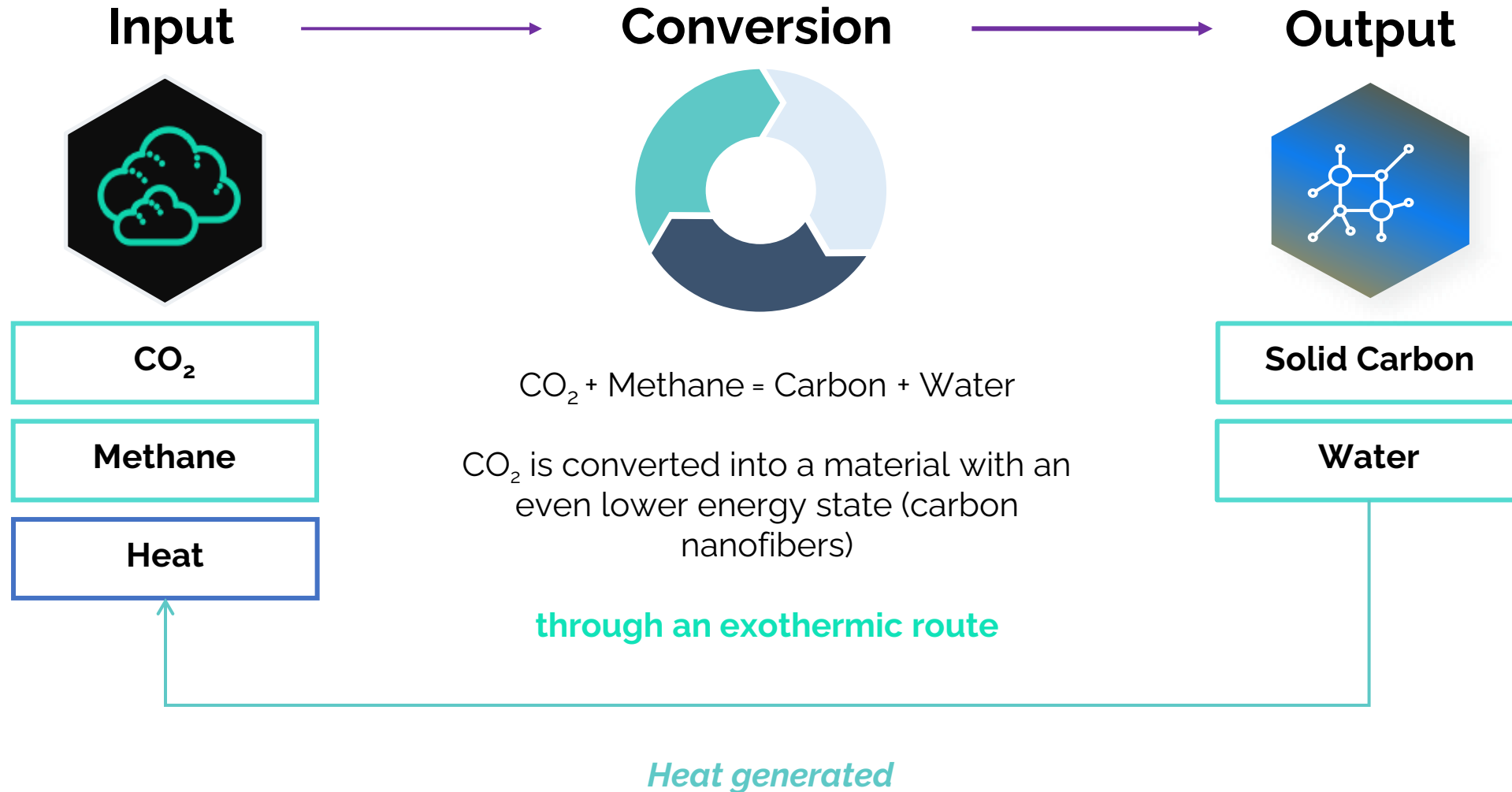
## Auto manufacturing



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

# Patented Catalytic Conversion Process

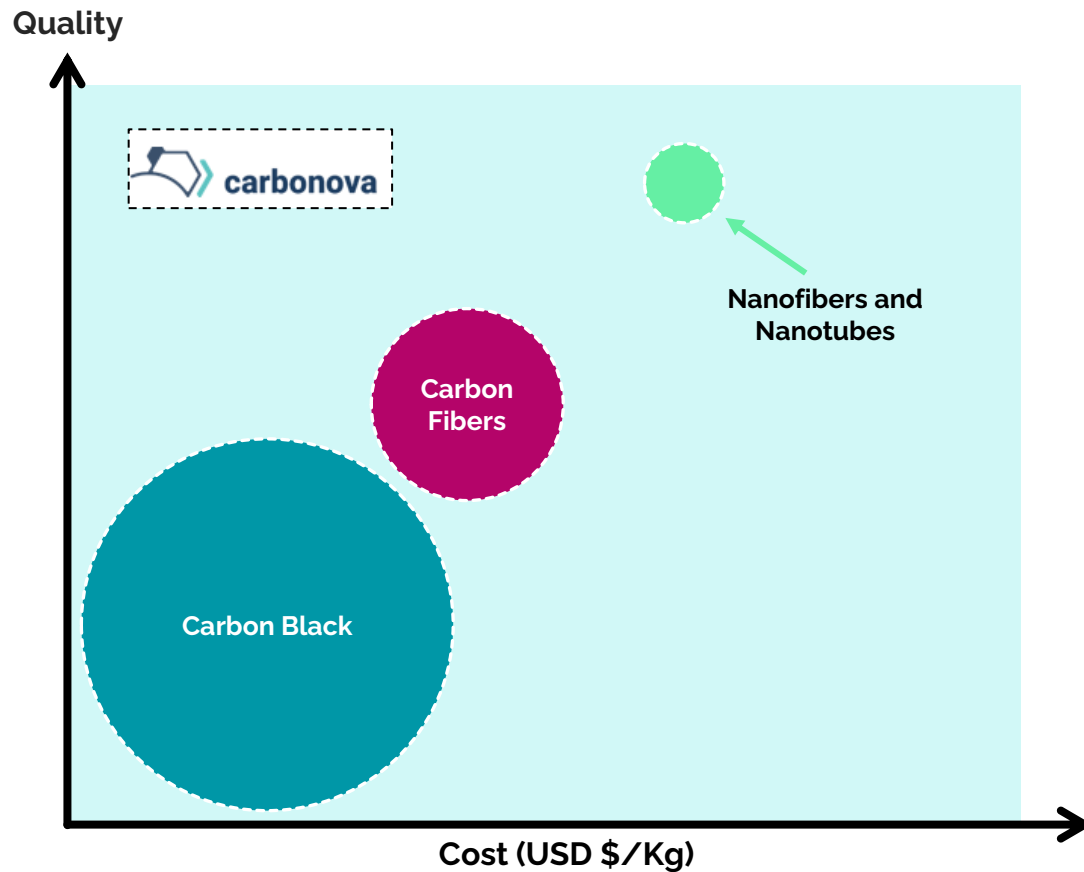
Simple process using lower temperatures than competing technologies



# Carbonova Target Market

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

## Target Market

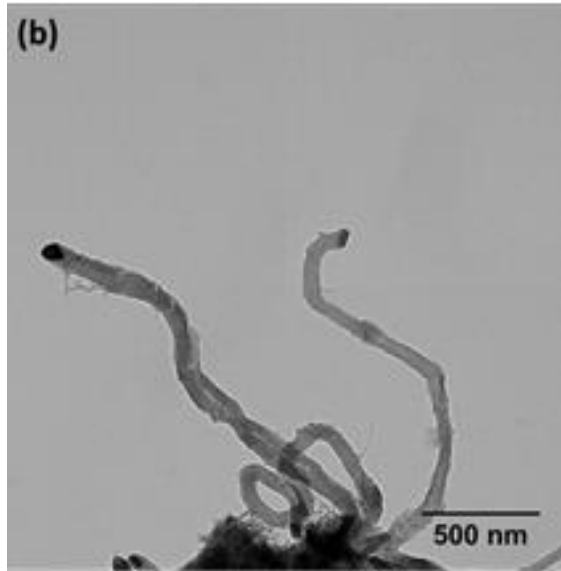


*Note: Bubble size indicates relative proportion of market share*

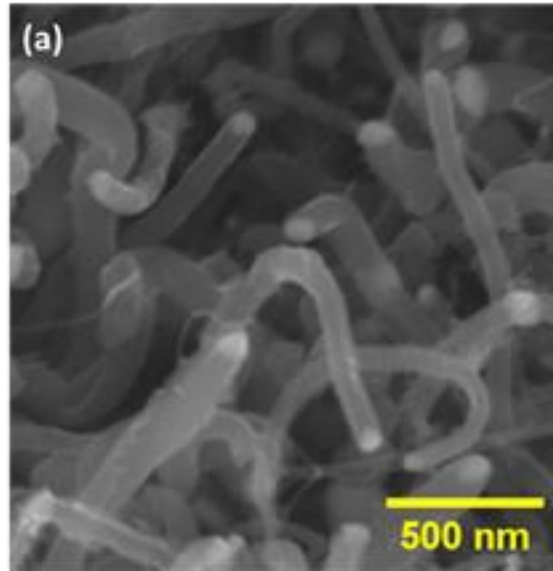
## Carbonova Advantage

- 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



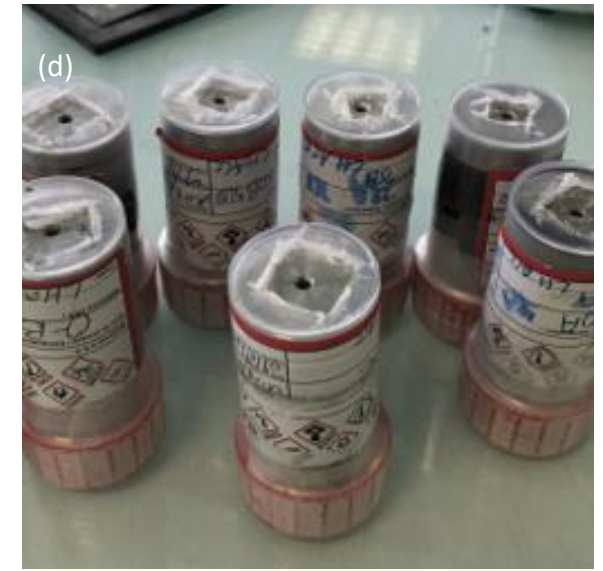
Microscopic images of carbon nanofibers



Microscopic images of carbon nanofibers



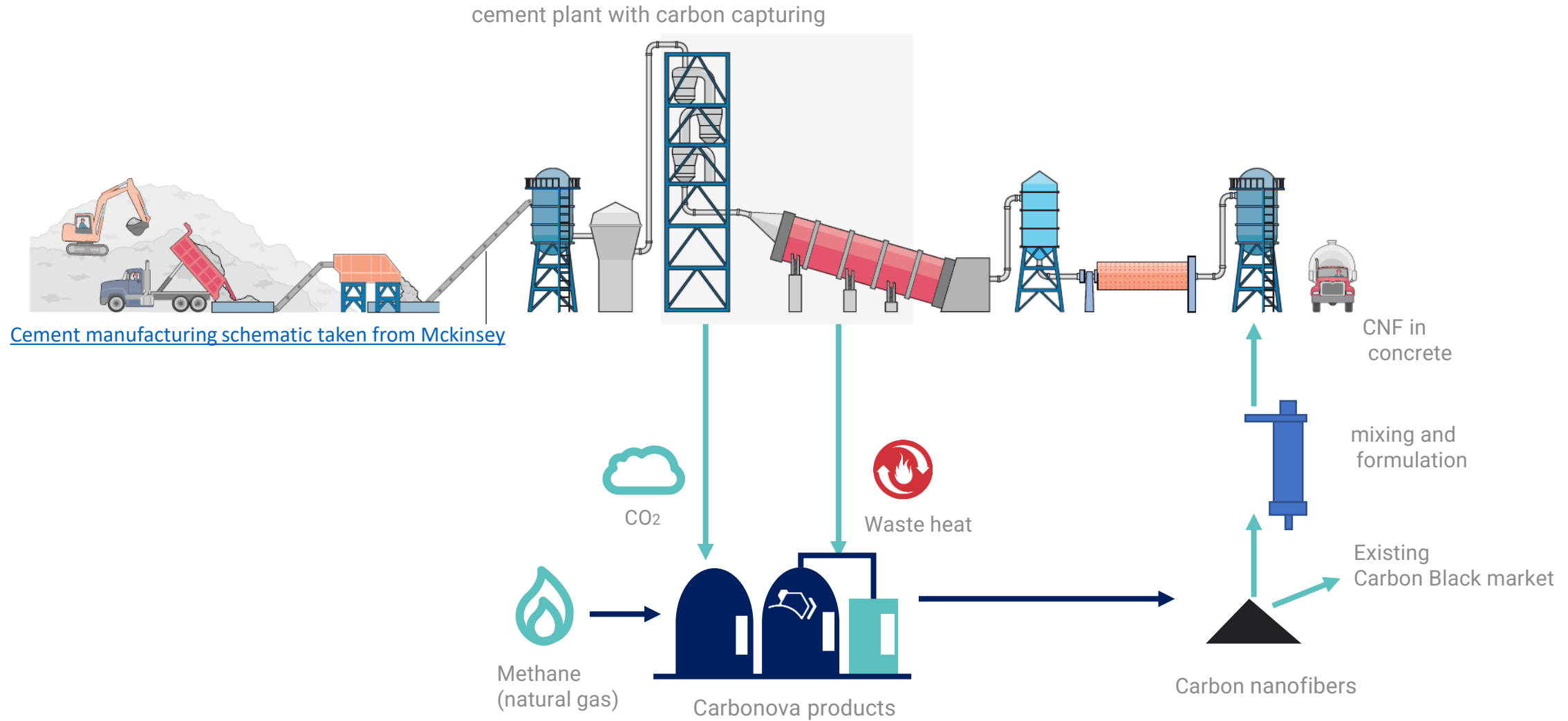
CNF Ink Ready for Shipment



CNF ink at R&D facility in France

# CREATE Project

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

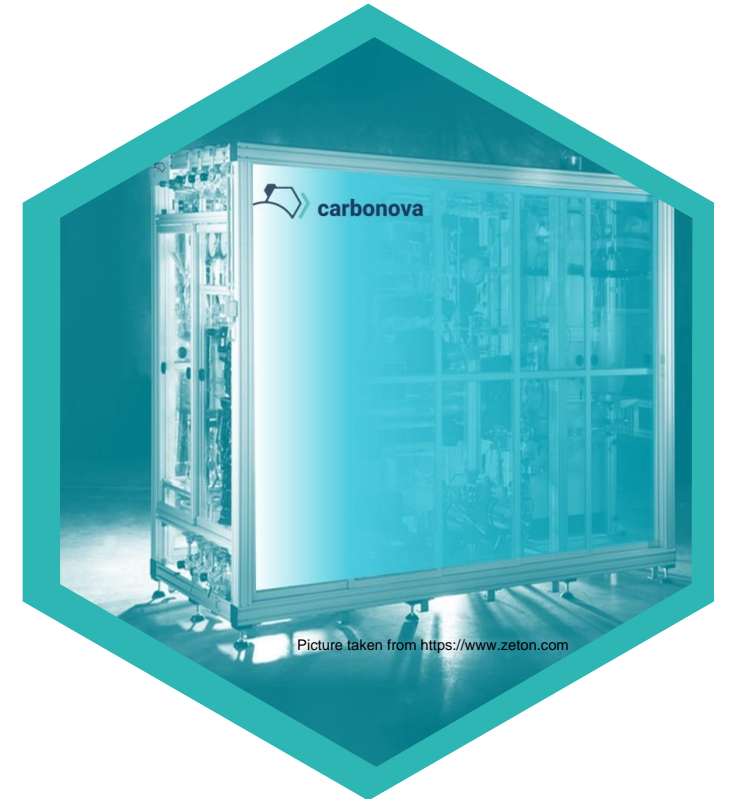




# Pilot Project

Completed on time and on budget, proving technical viability

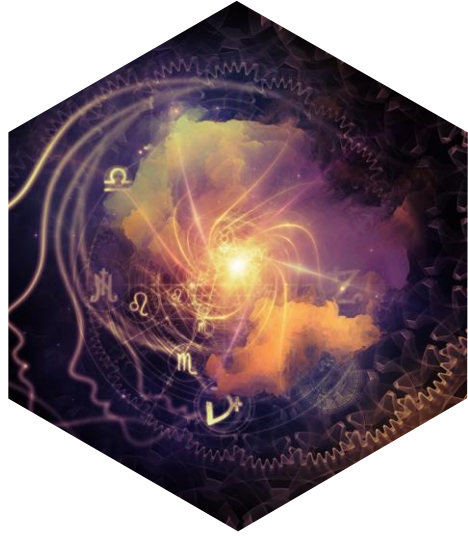
- Pilot plant constructed, commissioned on budget and ahead of schedule
  - Completed in January 2022- currently operating and providing products for testing.
- All key performance indicators were achieved:
  - Quality targeted achieved
  - Exceeded our competitor's product quality with a simpler lower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