



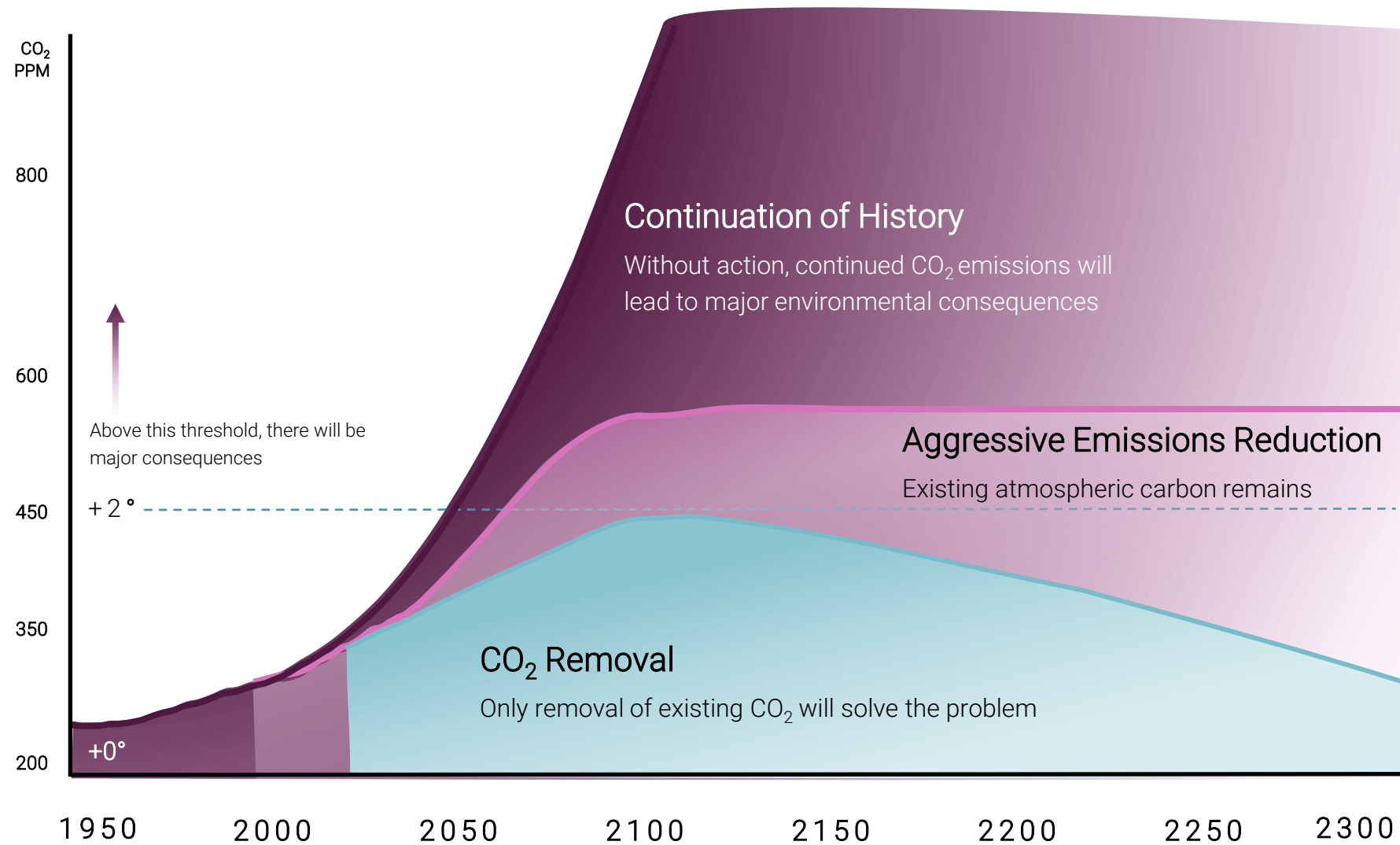
Direct Air Capture

PRESENTED TO
PNWER 2019

PRESENTED BY
Anna Stukas, Carbon Engineering Ltd.

DATE
July 23, 2019

The Problem



REDUCING EXISTING ATMOSPHERIC GAS IS A GLOBAL NECESSITY



“All pathways that limit global warming to 1.5°C... project the use of carbon dioxide removal on the order of 100–1000 GtCO₂ over the 21st century”
- IPCC SR15

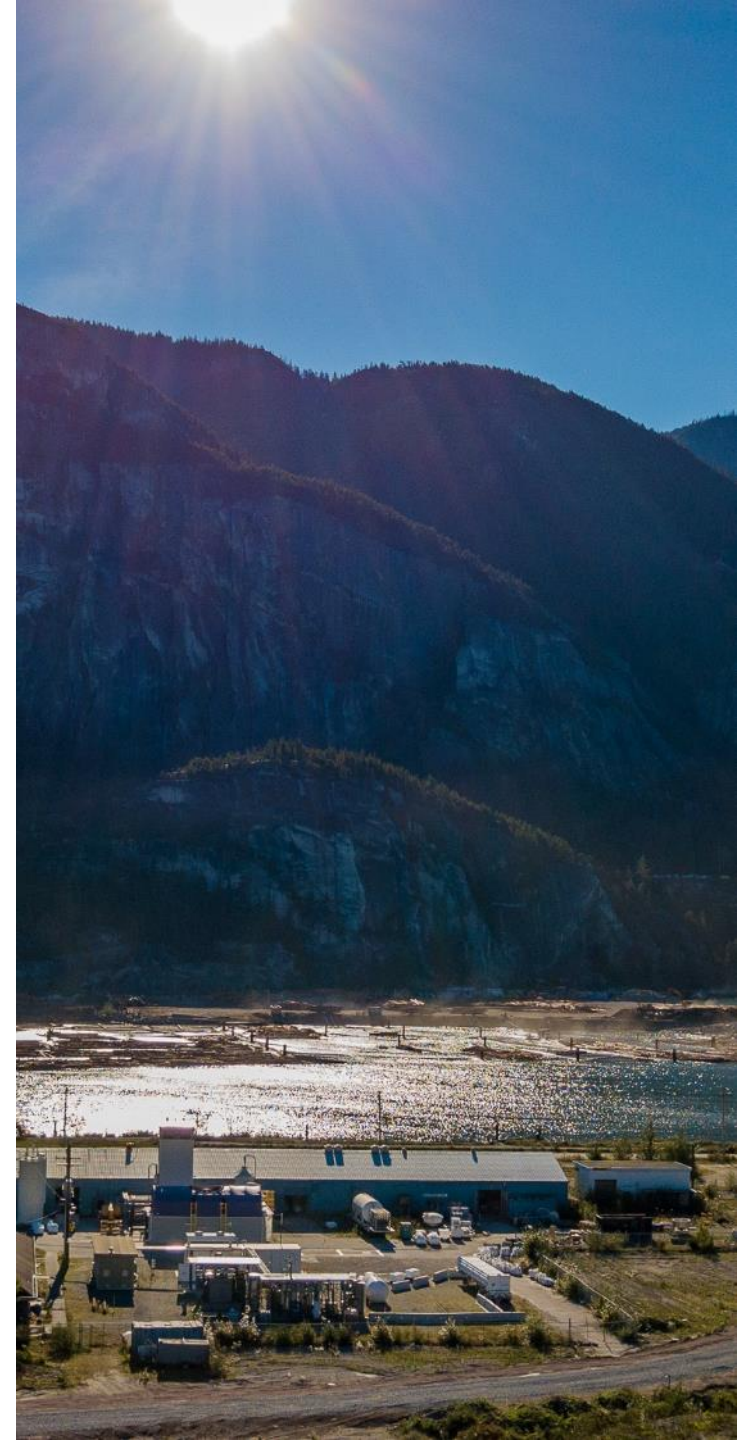


TO SLOW CLIMATE CHANGE, WE MUST REDUCE NEW CO₂ EMISSIONS & EXISTING ATMOSPHERIC CO₂

Welcome to Carbon Engineering

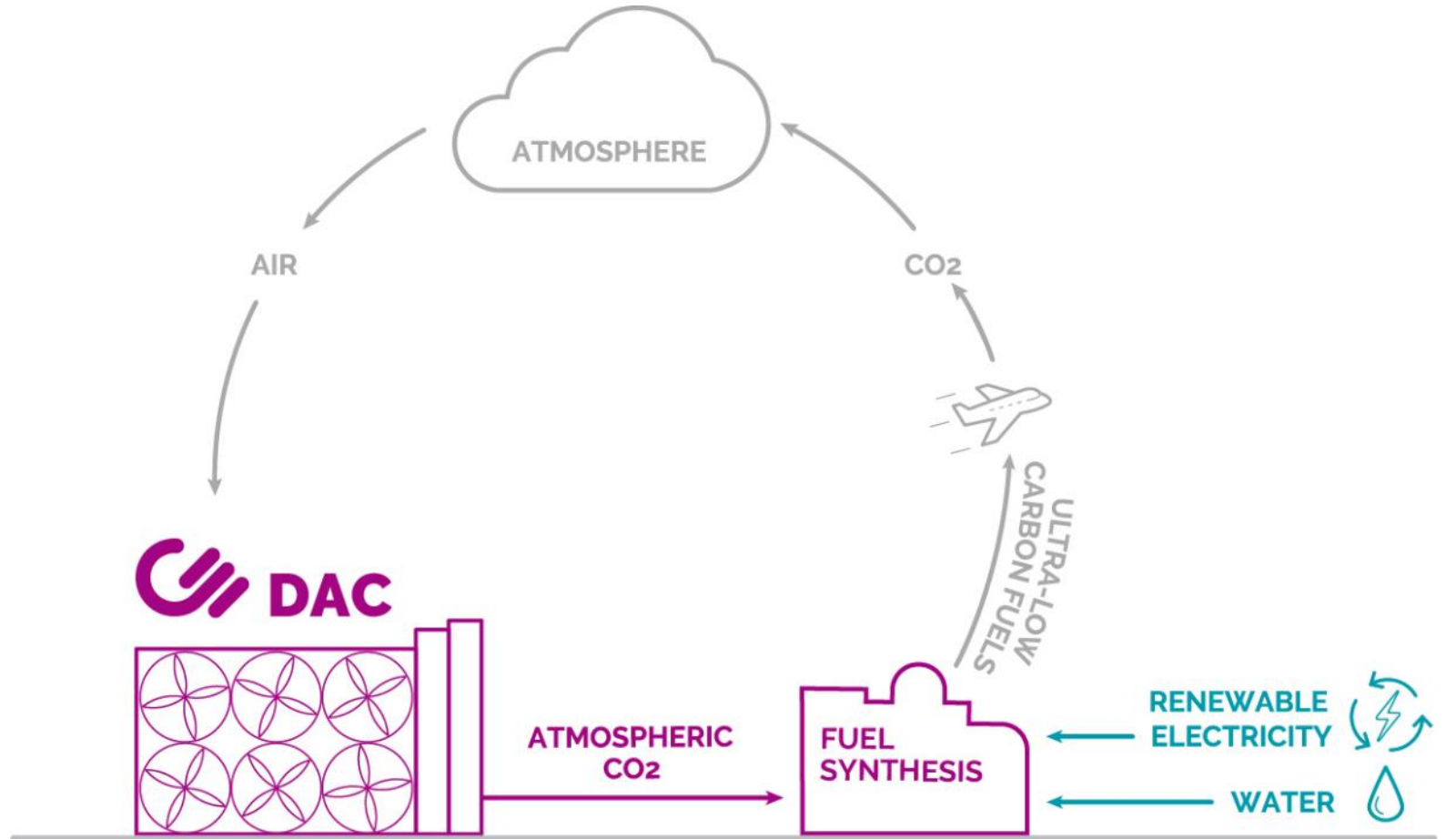
- Transportation is a major emitter but is critical to our everyday lives.
- All mitigation scenarios require large scale negative emissions.
- Solutions must be effective, affordable & implementable.

AN ENVIRONMENTAL NECESSITY, FINANCIALLY COMPELLING





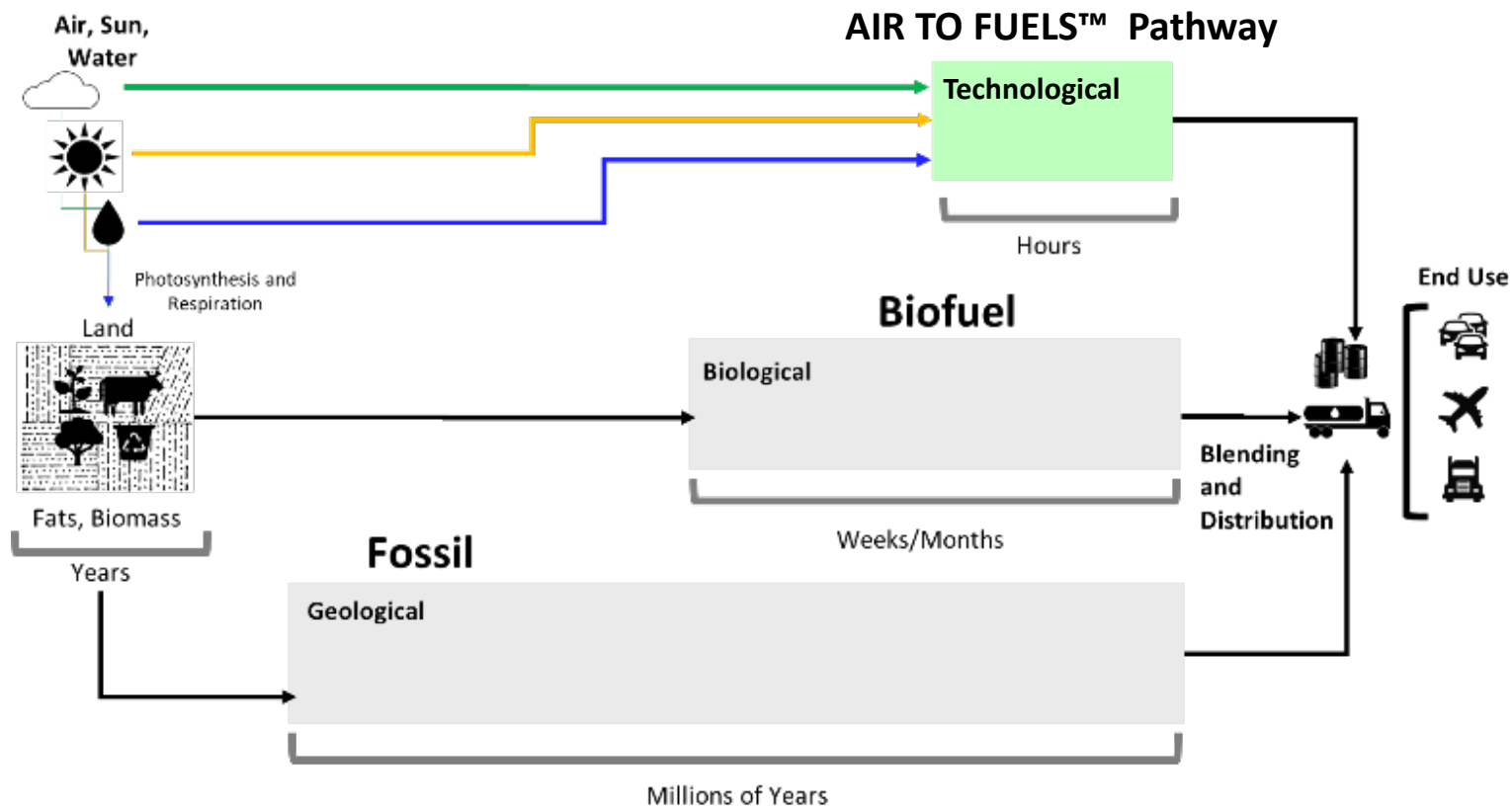
DAC Enables Ultra-low Carbon Fuels



Scalable options for decarbonizing the heavy transportation sector.

AIR TO FUELS™ Pathway Compared to Biofuels and Fossil Fuels

- All fuels begin with a common set of ingredients – air, sun and water.
- CE's AIR TO FUELS™ solution is a technological, rather than biological or geological approach to creating hydrocarbon fuels.



“

CE's AIR TO FUELS™ process can do within hours what took the Earth millions of years.





AIR TO FUELS™ Products

Low Carbon, Clean Burning



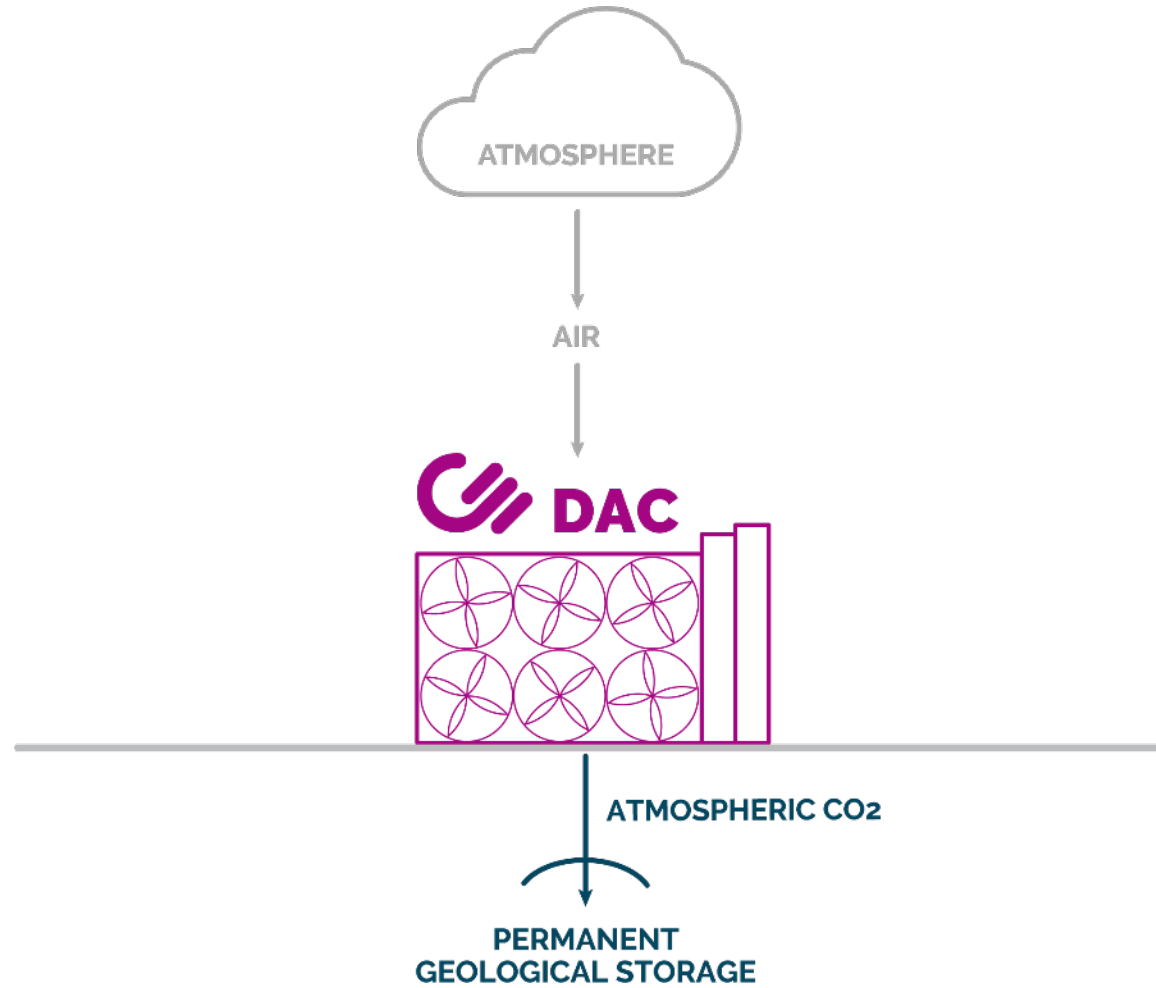
CE's fuel (right) compared to conventional diesel (left)

DROP-IN COMPATIBLE, ULTRA-LOW CARBON SYNTHETIC CRUDE



Essential and unique air treatment infrastructure using CE's DAC technology.

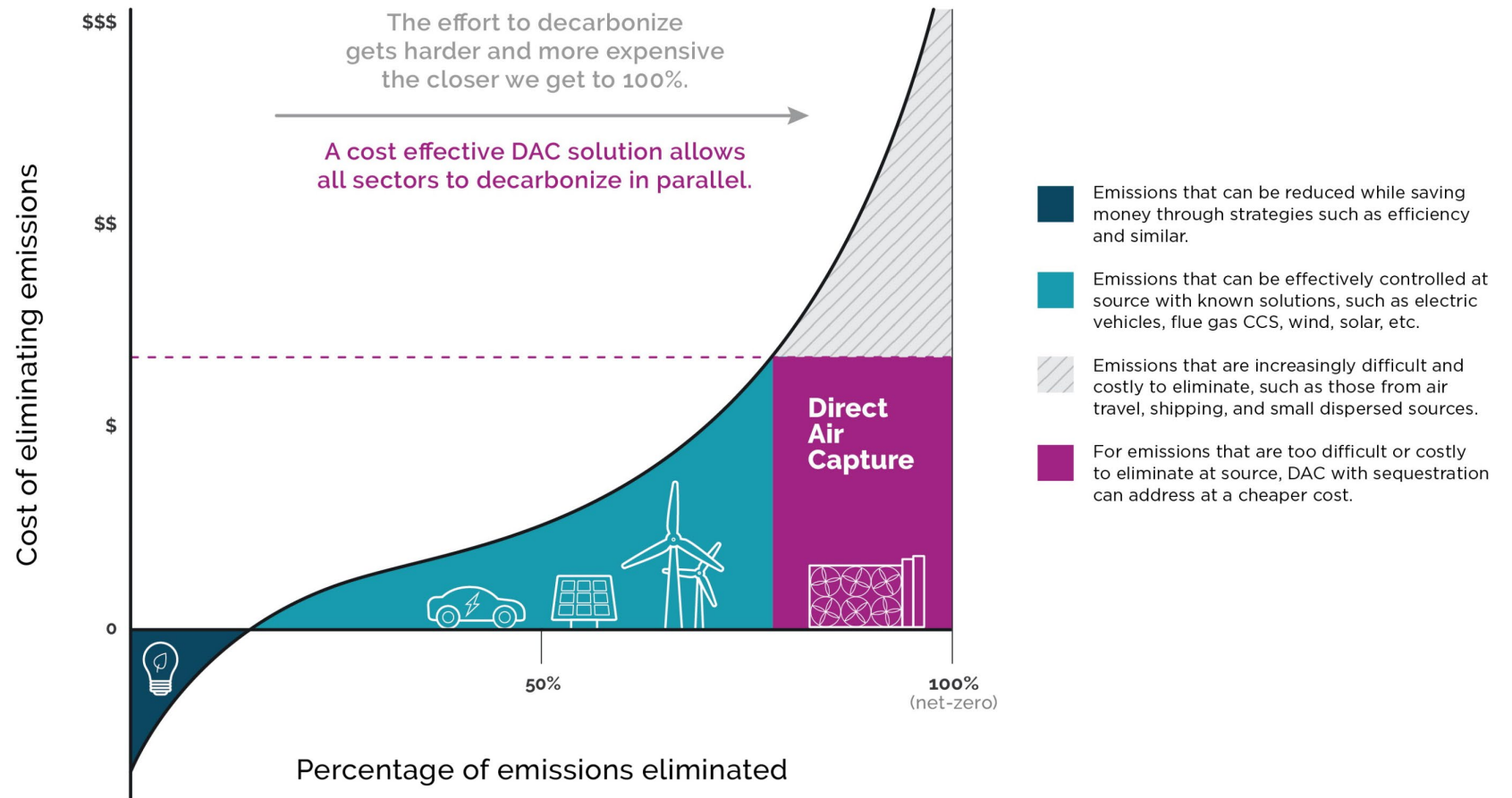
DAC Enables Negative Emissions







Addressing Emissions: A Portfolio Approach



DAC can play a critical role in addressing emissions that are too difficult or costly to eliminate at source.



MORE INFORMATION CAN BE FOUND AT:

www.carbonengineering.com

[@carbonengineeringltd](https://www.facebook.com/carbonengineeringltd)

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[Carbon Engineering Ltd.](https://www.linkedin.com/company/carbon-engineering-ltd)

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