

EXAMPLESOF CARBONTECH COMPANIES ANDPROJECTS

USEA Carbon Conversion Workshop - Sep 27, 2022









WHAT IS THE CARBON TO VALUE INITIATIVE?

- 3-year multi-stakeholders open innovation program to catalyze carbontech
- 2 core missions
 - Ecosystem Building
 - Fostering Partnerships, esp. between startups and corporates
- Carbontech Leadership Council work closely with startups and foster commercialization opportunities



CORPORATES



CARBONTECH EXPERTS









C2V LEVERAGES A UNIQUE PARTNERSHIP IN THE STARTUP ACCELERATION AND CORPORATE INNOVATION SPACE

URBAN FUTURE LAB



- New York City's climatetech innovation hub for clean energy, sustainable urban infrastructure, and deep decarbonization
- 87% company survival rate
- Supported 67 companies who have raised over \$895M



- Largest climatetech incubator in North America
- Locations in Somerville,
 MA, and Houston, TX
- Incubated over 400 companies who have raised over \$2.2B



- Global leader in applied research
- 80+ institutes and research units throughout the world
- 30,000+ staff
- \$3.5 billion annual research budget













NYSERDA Supported

- NYSERDA is building the Carbontech industry in New York State
- Lead funder of this initiative and leverages private sector financing
- NYS is leading the globe through the Climate Leadership and Community Protection Act of 2019

WHY CARBONTECH



TRILLION DOLLAR

MARKET OPPORTUNITY



CRITICAL TO AVOIDING 2°C

OF GLOBAL WARMING



WHITE SPACE FOR INNOVATION

GAINING TRACTION
WITH MAJOR
INDUSTRY ACTORS







CARBONTECH IS PART OF A BROADER SUITE OF CARBON MANAGEMENT SOLUTIONS

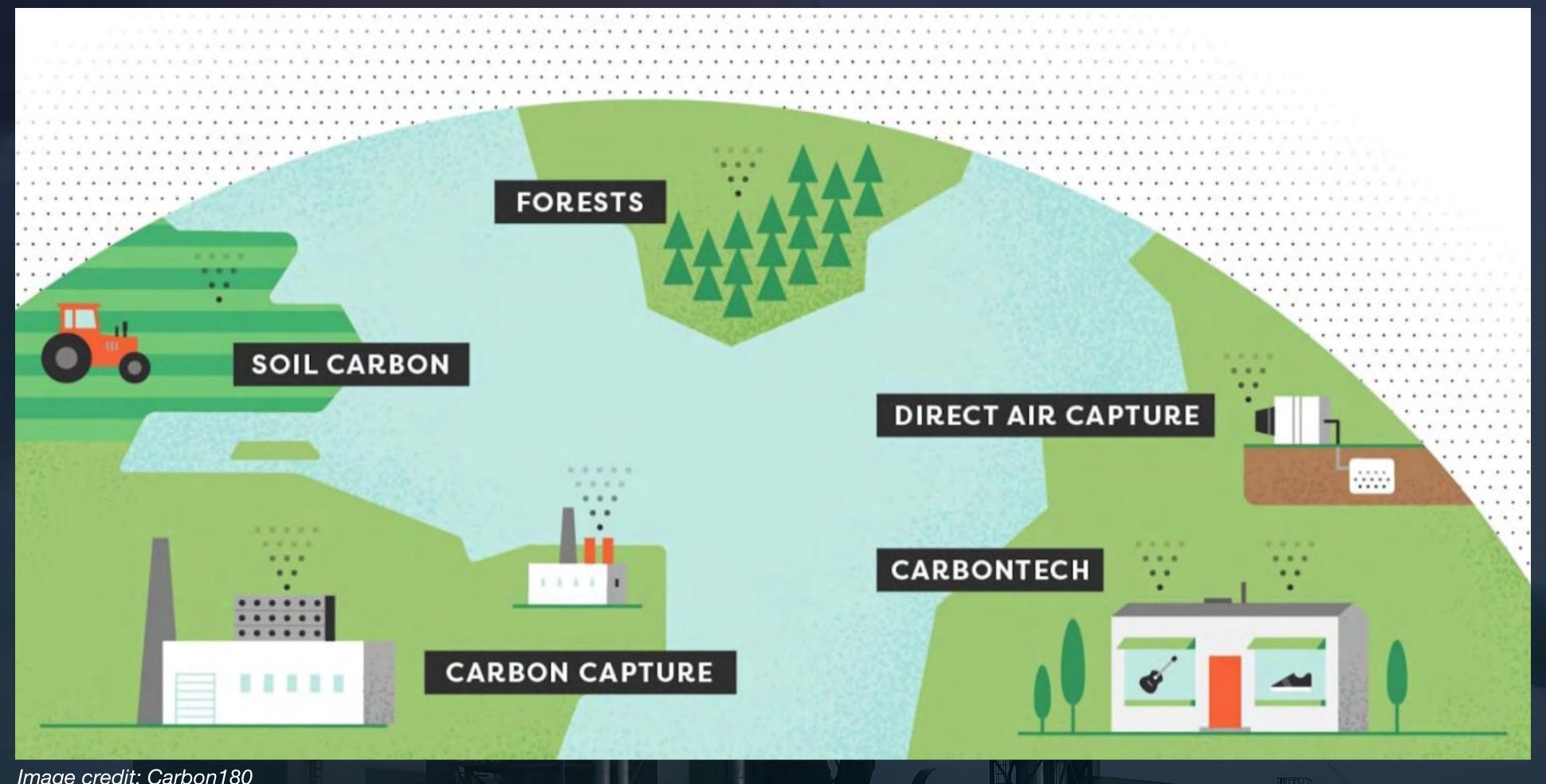


Image credit: Carbon180









THE CARBONTECH INNOVATION LANDSCAPE IS COMPLEX AND EVOLVES RAPIDLY

CARBON



CO



Biomass



Manure



Garbage

CONVERSION TECHNOLOGIES



Electrochemical



Photochemical



Thermochemical



Bio-catalyzed



Photosynthetic

PRODUCTS & SERVICES



Fuels



Building Materials



Plastics



Chemicals

Image credit: Carbon180







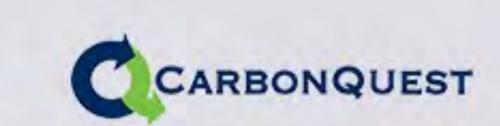


C2V YEAR 1 COHORT COMPANIES

AIR COMPANY.

























C2V YEAR 2 COHORT COMPANIES











ecoL@cked







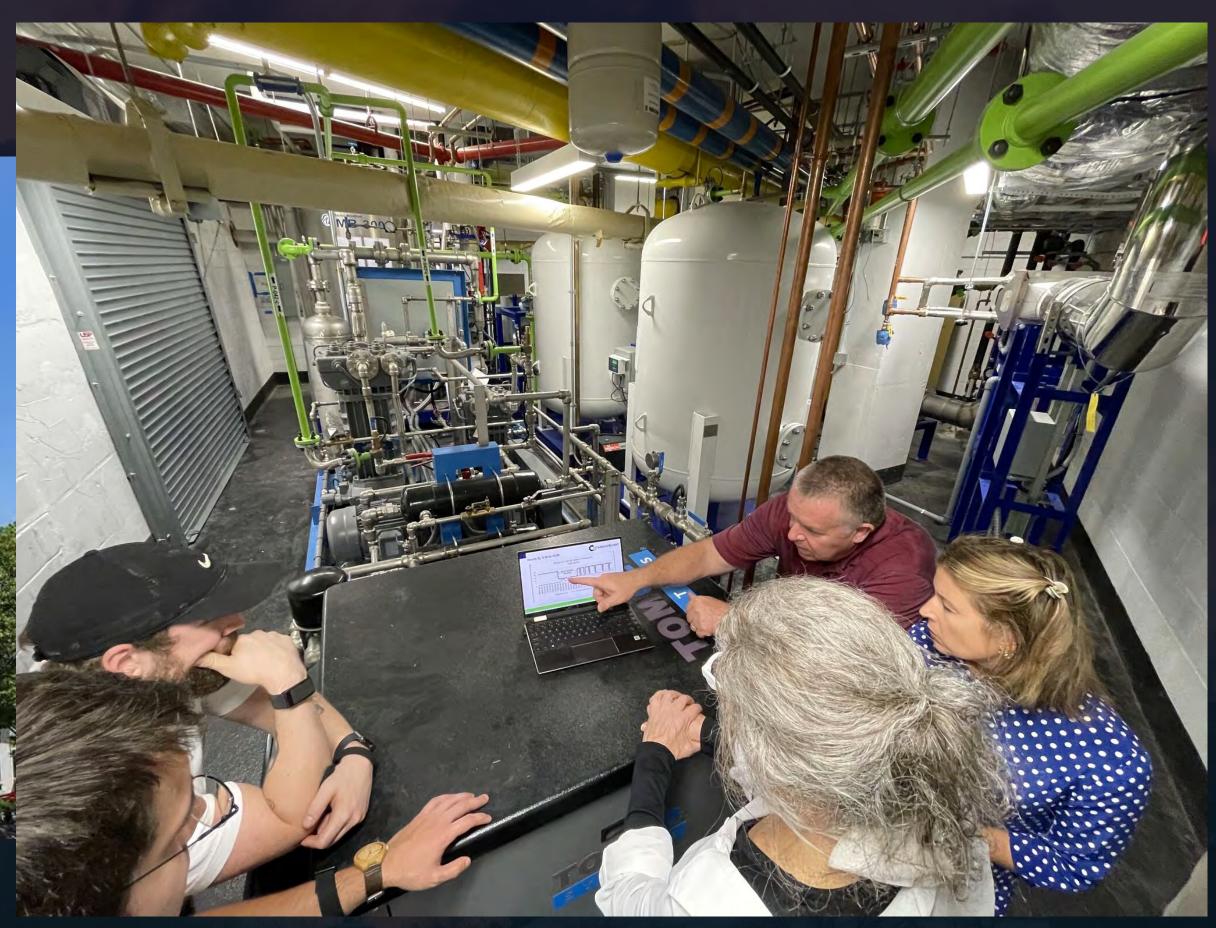






CARBONQUEST DECARBONIZE CARBONQUEST BUILDING HEAT THROUGH CARBON CAPTURE







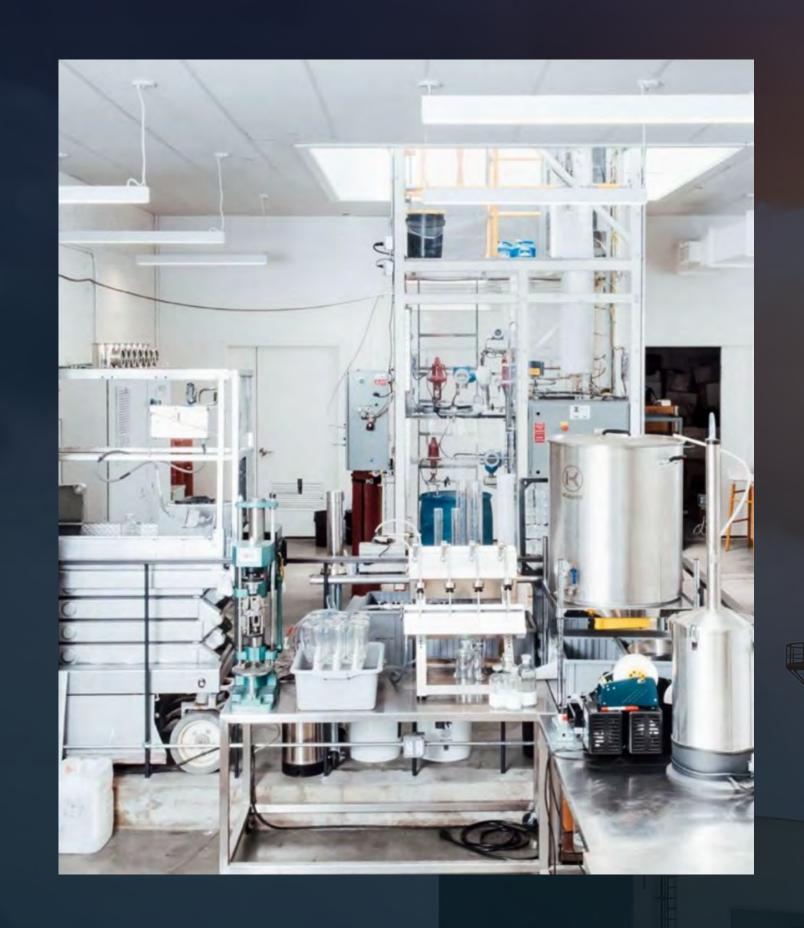


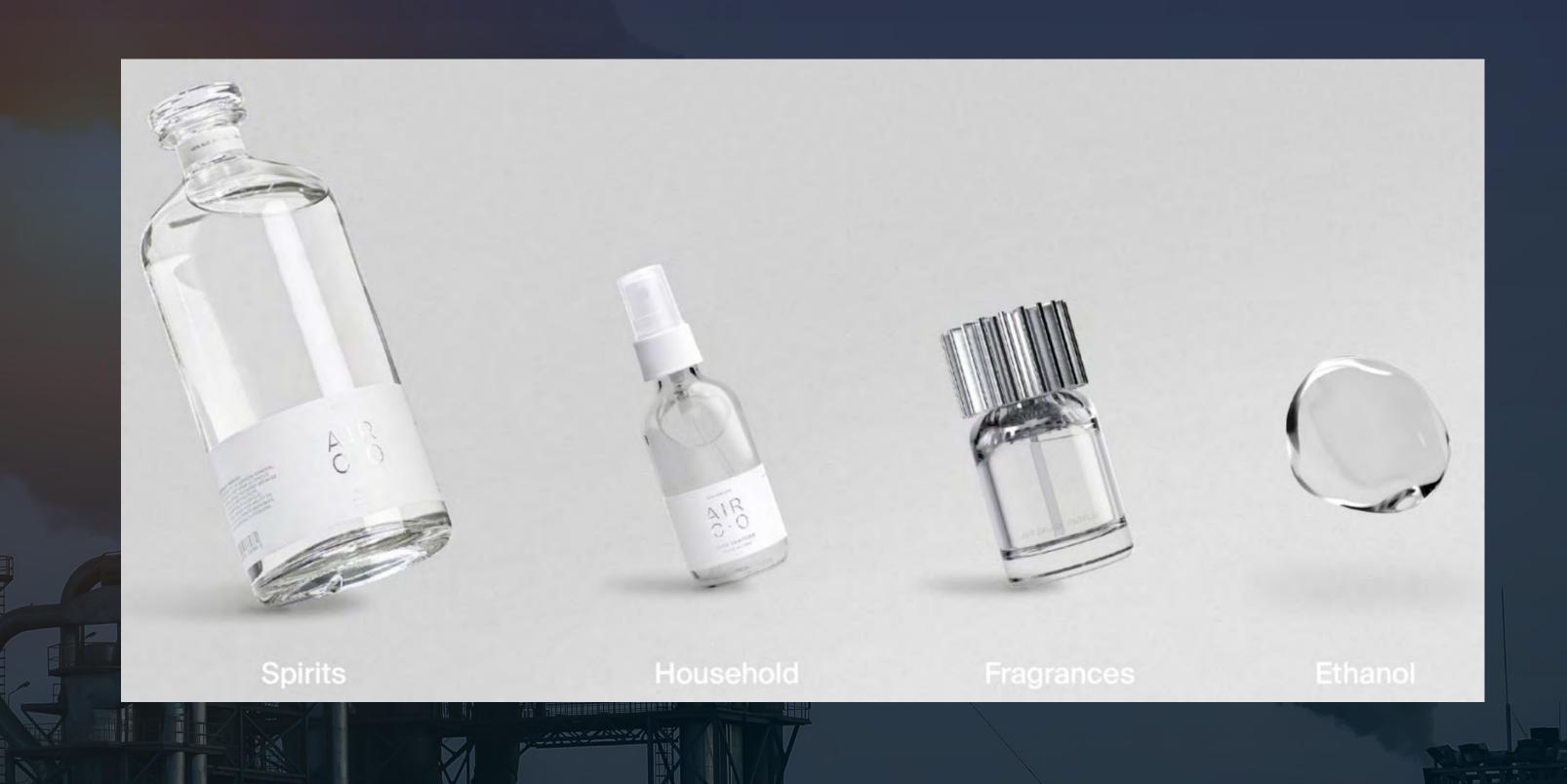




AIR COMPANY

AIR COMPANY PRODUCES ETHANOL AND METHANOL FROM CO2 AND HYDROGEN











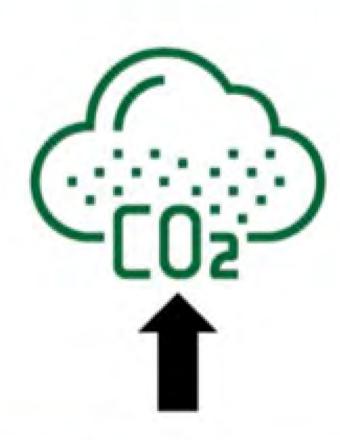




CarbonFree Offers a Full CCUS Solution Based on Mineralization



...decarbonizes and mineralizes the CO₂ in the SkyCycleto sell the products in the market or to store it permanently ...











Credit image: CarbonFree

- Utilizes established chemistry and adds the CarbonFree patented process solution
- On-site decentralized solution with modular global applicability
- Non-hazardous, benign specialty chemical
- SkyCycle Gen 2 PCC is highpurity and carbon negative with a wide range of applications



CARBON UPCYCLING TECHNOLOGIES CONVERTS SOLID WASTE AND CO2 TO BUILDING MATERIALS

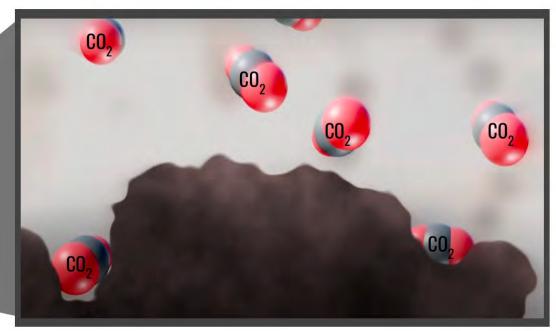


Low-purity flue gas from industrial point sources



Proven compatibility with over 30 industrial waste by-products





Captured carbon locked into additive materials







TAKE HOME MESSAGES

- We have emitted 1.6 Trillion of CO2 since 1750 (stock) and we emit 36 billion of additional CO2 per year (flow) - opportunity to change the paradigm from CO2 as a waste to CO2 as a resource
- Wide range of approaches: feedstock / process / product combinations
- Economics of today <> economics of tomorrow
- Stay informed and involved with the Carbon to Value Initative: subscribe https://www.c2vinitiative.com/subscribe









THANK YOU



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