



Manufacturing For The Future

Presentation Fall 2022

Forward Looking Statements

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What We Do

WE TAKE POST-CONSUMER ASPHALT ROOFING SHINGLES



AND WE CREATE MARKETABLE PRODUCTS INCLUDING: DIESEL BLENDING STOCK,
GRAVEL, CALCIUM CARBONATE AND CLEAN FIBERGLASS



C6-Zero: Who we are...

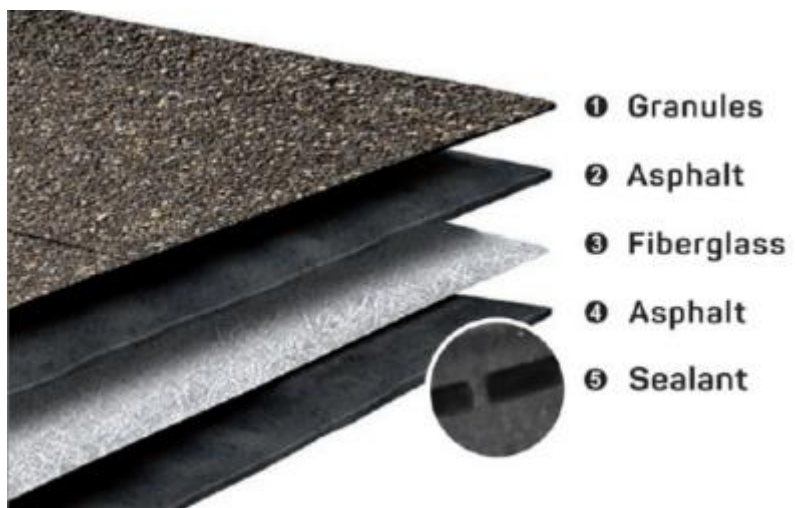
► C6-Zero is a privately held company that utilizes a proprietary chemical washing process to extract hydrocarbons from used asphalt shingles and produce high quality, Diesel Blending Stock.

- Founder/Inventor: Howard Brand
- Financial backing from experts within the oil and gas industry
- Patent Protected Processes
- Beta site production completed
- Build out of full production facility completed September 2022
- Pilot production roll out **Q3 2022**, full production ramp-up **Q4 2022**



THE PROBLEM

- Tens of millions of tons of asphalt shingles are buried in US landfills annually. These shingles degrade in landfills creating toxic acids that gas off or impart in the soil and eventually taint ground water.
- This is an environmental disaster that we can prevent and a waste of materials that can be reused in the economy.



THE C6-ZERO SOLUTION

- ▶ C6-Zero cleanly and efficiently manufacturers every captured ton of waste shingles into:
 - ▶ 2.3 Barrels of Diesel Blending Stock
 - ▶ .75 Yards of ATSM 33 aggregate
 - ▶ 12 pounds of clean fiberglass
 - ▶ These are all sold back into the marketplace. We collect standard tipping fees for taking waste shingles and transport feedstock and end products via truck, rail and in the near future by barge.



MARKET MAGNITUDE

- ▶ 11+ Million tons of waste shingles per year
- ▶ 26+ Million barrels of end-product oil or blended Biofuel per year
- ▶ 8+ Million tons of ASTM 33 aggregate per year
- ▶ 185+ Thousand tons of clean fiberglass per year

Government and Engineering



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Mr. Howard Brand
C& Zero
215 Maple Avenue
Florence, Colorado 81226

Dear Mr. Brand:

Thank you for your inquiry regarding a proposed new facility in Iowa to take used and off spec shingles and return them to their base ingredients for reuse.

The U.S. Environmental Protection Agency administers the hazardous waste program in Iowa. Since this facility is not yet operational, our interpretation is based on the statements and documentation provided. The documents state that no waste will be generated at this facility. If that is true, there will be no hazardous waste generated. However, if waste is generated once operations commence, or the plant is idled, then a hazardous waste determination would be necessary for each waste stream generated and/or each abandoned material. Please contact the Iowa Department of Natural Resources regarding other registrations, permits or other approvals that may be necessary.

The information states that this process is classified under NAICS Code 325998: All Other Miscellaneous Chemical Product and Preparation Manufacturing. As such, it does fall under the EPA's Pollution Prevention program National Emphasis Area 2. This covers Chemical Manufacturing, Processing and Formulation. This process also fits with the EPA's Sustainable Management Program under the national focus area of the built environment, which includes construction and demolition debris.

Thank you again for your inquiry. If you have any questions, please contact Jim Callier at (913) 551-7646 or callier.james@epa.gov.

Sincerely,


DeAndre Singletary
Director
Land, Chemical & Redevelopment Division

cc: JW Hackett, EPA Region 7, Renewable Fuels Advisor
Patrick Davis, EPA Region 8, Senior Advisor to the Regional Administrator for Public Engagement
Mike Sullivan, Supervisor, Contaminated Sites Section, IDNR



- ▶ Formal EPA Region 7 no waste and classification received
- ▶ EPA classified as Construction & Demolition prevention and aligned with their sustainable management program
- ▶ MASS Balance and verification performed by Las Alamos Technical Associates (LATA) a leading Environmental Engineering firm.
- ▶ All fuel testing is performed by third party nationally recognized fuel testing labs.



► Technologies and processes are:

► Patented

- US Patent allowance issued in September 2022 (waiting to be published)
- European patent allowance issued October 2022
- Additional international patents have been filed and awaiting allowances
- Chemical is a Trade Secret
- Patent legal work done by nationally recognized law firms. We intend to fully and vigorously defend our patents.

C6-Zero: Business Model Visual Overview



C6-Zero: Initial Full Scale Production Facility

- **Opening: Q3 2022**
 - The first C6-Zero Plant is located in the former Heartland Crush facility on the IAIS railroad in Marengo, IA.
- **The Marengo plant will run two production lines.**
 - The second line is estimated to be operational in Q2 2023
- **Production Capacity per production line:**
 - Hourly feedstock throughput: 65 tons of shingles
 - Daily feedstock throughput: 1,560 tons of shingles
 - Monthly feedstock throughput: 39,000 tons of shingles
 - Annual feedstock throughput : 468,000 tons of shingles



Our Products are Unique and our Markets Robust

-We are a “niche player” in very large markets-

Our Products are “Value-Add” due to their Carbon Intensity Scores and Specifications

► Our Advanced Fuel Oil products:

- Advanced Biofuel (Biofuel Blend) - Off-road vehicles, Generators, Heating Oil
 - Marine Gasol (MGO) - Marine Fuel, Diesel Blending Stock
- Diesel products are in high demand in our markets-

► Our Aggregate products:

- Cleaned ASTM 33 aggregate - Cement, Sandblasting, Shingles
- Agricultural and Industrial grade Calcium Carbonate - Farming, Concrete

► Our Fiberglass products:

- Cleaned Fiberglass (whole or shredded) - Insulation, Concrete, Rolled Roofing

A Climate Positive Carbon Lifecycle

- ▶ Our products will help our customers reduce their carbon footprint:
 - ▶ Our third-party certified CI (Carbon Intensity) ratings will allow the users of our end products to reduce their own carbon footprint by using our products.
 - ▶ Carbon Credit off-sets. We are currently working through the process to have our products certified with Verra which will lead to each carbon credit we produce to have a serial number associated with it.
 - ▶ LCFS credits (Low Carbon Fuel Standards). We are also working towards being recognized under LCFS which should lead to a premium pricing for our fuel in certain markets.
- ▶ As we expand, we will ultimately divert millions of tons of waste from American landfills.
- ▶ Are products and reclaimed, repurposed and reused creating a climate positive lifecycle for a product that would otherwise become an environmental hazard.

Our Technology is a WIN/WIN

It's a WIN for the Environment and a WIN for our Customers

- ▶ **DIVERSION OF MATERIALS = CLEANER SOILS/WATER:**
 - ▶ 11 MILLION TONS OF SHINGLES DISPOSED OF ANNUALLY IN U.S. LANDFILLS
 - ▶ THIS EQUATES TO **924** MILLION GALLONS OF OIL
 - ▶ THE DEEP WATER HORIZON OIL SPILL WAS ESTIMATED AT **160** MILLION GALLONS
- ▶ **CO₂ REDUCTION IN THE MARINE INDUSTRY:**
 - ▶ A PANAMAX CONTAINER SHIP TRAVELING AT 20-25 KNOTS (23-28 mph) CAN CONSUME 63,000 GALLONS OF MARINE FUEL PER DAY.
 - ▶ IT IS SAID THAT 22.38 POUNDS OF CO₂ IS CREATED FROM BURNING 1 GALLON OF DIESEL.
 - ▶ OUR 24% REDUCTION IN CO₂ WOULD REDUCE THE CARBON FOOTPRINT OF AN AVERAGE CONTAINER SHIP BY **338,385 LBS** of CO₂ PER DAY.
 - ▶ THERE ARE APPROXIMATELY **55,000** MERCHANT SHIPS INTERNATIONALLY. THAT'S POTENTIALLY **18.6** BILLION TONS OF CO₂ EMISSIONS PER DAY.

Our Carbon Intensity Score vs Other Fuels

Fuel Type	Energy Content million BTU*/t	CO2 Emissions from Combustion, Outright	CO2 Emissions Adjusted for VLSOF-Equivalent	% Drop in Emissions
VLSOF	~40.4	3.15	3.15	-
LNG	52.5	2.76	2.12	-33%
Methanol, grey	18.9	1.38	2.94	-7%
B30	36.9	2.21	2.42	-23%
C6-ZERO Fuel				-24%
C6 blend with B30				-47%
Ammonia	17.6	0	0	-100%
Hydrogen	113.7	0	0	-100%

Source: Argus Media Group 2022 except highlighted data.

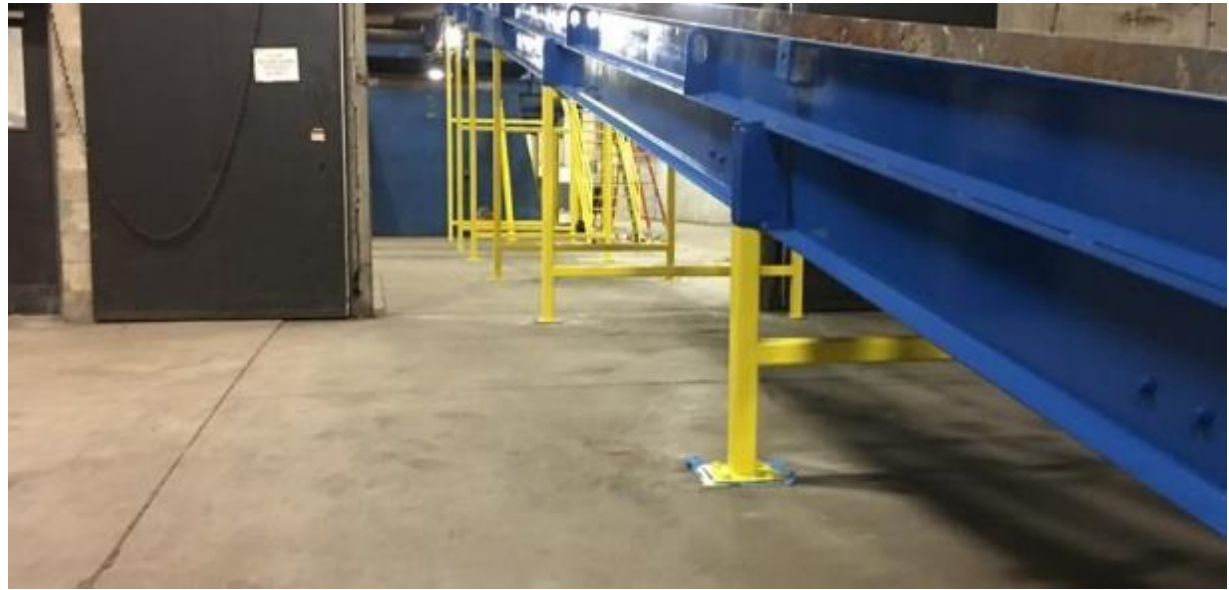
Our Recent Accomplishments

- ▶ Received EPA letter reclassifying us as a manufacturer falling under the EPA's Pollution Prevention program.
- ▶ Received patent allowances for both our US process patents and our European process patents.
- ▶ Completed the build out of our first full scale production facility.
- ▶ Received our preliminary carbon intensity lifecycle reduction score of 24%.
- ▶ Sold our first oil produced in our full-scale production facility.
- ▶ Our first participation at a nationally recognized industry summit panel discussion by our CEO Howard Brand.

Our Goals Over The Next Few Months

- ▶ Reach 24-hour production in our Iowa production facility.
- ▶ Reach 3,000-3,500 barrels/day production in our Iowa facility.
- ▶ Expand our capabilities at the Iowa facility.
 - ▶ Rail capabilities
 - ▶ Additional storage buildings for raw materials
 - ▶ Oil storage capacity
 - ▶ Equipment upgrades
- ▶ Finish Carbon Intensity Lifecycle scores for our fiberglass, aggregate, and calcium carbonate products.
- ▶ Expand our shingle collection locations.
- ▶ Begin buildout of additional full scale production facilities.











MANUFACTURING FOR THE FUTURE

Thank You!