

Acknowledgements

Funding for this Feasibility Report was made possible in part with a Rural Business Development Grant from USDA Rural Development. This publication is the result of tax-supported funding from USDA, Rural Development and as such is not copyrightable. It may be reprinted with the customary crediting of sources.

EcoGlobal is grateful to the following:

Turmaks and AHG State of Vermont Office of U.S. Senator Patrick J. Leahy Vermont Rail System Town of Middlebury, VT Middlebury College Northeast Resource Recovery Association Association of Plastics Recyclers Northern Forest Center UMass Lowell Sustainability Management Association Ministry of Waste Klosters Forum, Ocean Plastics Plastics Industry Association State of Colorado Sustainable Packaging Coalition Materials Recovery For the Future Solar Impulse Foundation Coast Waste Management Association Addison County Economic Development Corporation Addison County Regional Planning Commission U.S. Chamber of Commerce Foundation **Argonne National Laboratory**

And thanks to a variety of organizations who offered Letters of Support.

Alliance to End Plastic Waste

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EXECUTIVE SUMMARY

EcoGlobal is working to build a business that addresses a fundamental challenge to the environmental and economic sustainability of our planet – single-use plastic.

Our large team of experts and advisors have spent nearly a decade exploring the complex ecosystem of plastics, to support planning for U.S. and Canadian expansion of a proven and proprietary technology, which mechanically converts landfill-bound plastic film and flexible packaging directly into recyclable and long-lasting products. The environmentally friendly manufacturing process is highly profitable, scalable at lower cost, and offers significant advantages over other options. And we enable long-term material reuse with a georegion production orientation, using a facility-proximate feedstock sourcing and sales strategy.

After extensive research, competitive analysis, thousands of meetings, and assessing and prioritizing multiple locations, we have determined that our broader expansion plans are best served by building our headquarters, initial production facility, and sustainable infrastructure on rail accessible parcels in Middlebury, VT. Though no location has every desired attribute, Middlebury surpasses others for many reasons, including a long history of support and encouragement from local officials.

This USDA supported Feasibility Report and Market Analysis provides an overview of our approach to the crisis of single-use plastics, and how the Middlebury location will serve our immediate and long-term expansion objectives. The Report addresses more than a dozen key topics in summary form, including the plastics problem, our process and benefits, and description of EcoGlobal Middlebury.

We welcome inquiries from investors and partners who share our business goals of making money, diverting waste, manufacturing valuable and environmentally friendly products, creating circular economy jobs, and adopting the Environmental Stewardship of Materials™.

The Appendix includes an introduction of our team, followed by subject-related documents, videos, images, letters of support, and a list of organizations who helped advance our journey.





THE PLASTICS PROBLEM

Why do we use so much plastic? We use plastic because it offers competitive features over other materials: lower cost, lower weight, versatility, durability, and effective protection from the elements.

Lightweight plastics save fuel, decrease emissions during transportation. and provide clean systems to hold and deliver drinking water for communities and agriculture. Healthcare requires it to maintain sanitary practices for disease prevention and to improve wellness. Grocers rely on plastic to keep our food supply safe, clean, protected, and cost-efficient.

Since its development, Low Density Polyethylene (LDPE-sometimes identified with #4 symbol) has achieved significant growth and is the most commonly used grade of polyethylene. It offers a wide range of uses as its properties make it appropriate for a variety of applications, including film and flexible packaging. It is long-lasting, non-toxic, chemically inert, water-impervious, and resistant to acids, alkalis, alcohols, bases, esters, oils and greases, aldehydes and ketones.

Since it requires fewer resources, lower energy, and has a smaller environmental footprint than paper, wood, glass or metal, LDPE is used widely: food, industrial products, agriculture, electronics, healthcare, and consumer goods. Industry insiders estimate current global LDPE production at more than a half billion metric tonnes annually.

Despite its capability for reuse, most LDPE is used only once, treated like trash, and thrown away. Historically, consumer and industry attitudes were tolerant of disposal. Times and conditions have changed, and we now recognize the high costs of a throwaway mentality, including unacceptable leakage into the environment.

But major gaps exist between our desire for material reuse, the market, and the infrastructure required to support a transition to large-volume circular outcomes. Making the shift is becoming more urgent against projected double-digit annual growth in LDPE production over the next two decades.

Recycling Markets and Challenges

Our waste and recycling system is fragmented and inefficient and will remain so unless we prioritize value for post-consumer materials. Insufficient investment, inconsistent material quality, and growing volumes pose an existential threat to the recycling industry. It starts with the quality of the materials being collected from homeowners and businesses. Most Americans use single-stream recycling systems, designed to increase recycling by combining items in the same collection bin. The problem with commingling is that it yields a poor-quality mix of materials. Most remanufacturers cannot work with the lack of consistency and elevated levels of contamination found in single stream processing.



Materials Recovery Facilities

MRFs-pronounced "murf" (materials recovery facility, materials reclamation facility, materials recycling facility) receive, separate, and bale recyclable materials for end-user manufacturers. They are the backbone for most resource recovery programs.

Most MRFs are not economically viable and struggle to reinvest in their operations because of their inability to extract sufficient value from the materials they collect and separate. Insufficient public investment and poor value return caused by contamination are common reasons for financial instability. Outdated facilities fail to keep pace with shifting uses of packaging materials. In place of more valuable glass, metal, cardboard, and rigid plastics, MRFs now contend with a growing volume of flexible plastic packaging with little or no value in the current marketplace. Without an increase in market value for post-consumer film and flexible packaging, the net result will be more material sent to the landfill.

Current Recycling Technologies

While existing recycling technologies for reuse of plastic film and flexible packaging provide a better alternative to the landfill, they are capital and energy intensive and offer limited additional life for the material.

- Incineration, or waste-to-energy, produces nominal energy and extinguishes the material.
- Pyrolysis, and other forms of chemical recycling, use heat or solvent-based processes
 to convert polymers into fuel and other compounds, offering a short second life and
 potentially toxic emissions.
- Mechanical recycling creates pellets (or nurdles) for reuse, but is more expensive than virgin material, has environmental stewardship challenges with movement, and is unlikely to achieve multiple life cycle use.

While over 90% of plastic film and flexible packaging currently goes to the landfill, and the volume is growing, none of these technologies provide a clear, low-impact, cost-effective, and scalable solution.



COMPRESSION UPCYCLING™

Compression Upcycling™ is a breakthrough technology which creates value from dirty, mixed-waste post-consumer LDPE plastic which typically goes to the landfill.

The proprietary low-emission, low-energy manufacturing process enables large-scale conversion of single-use plastics into multi-life cycle products and applications which are lower cost and equal or superior performance to those made from virgin materials.

The technology was developed in Turkey with more than \$15M of research and development funding. Significant support from the Scientific and Technological Research Council of Turkey enabled proof of concept and initial commercial production of manhole covers and shipping pallets in 2011. More than a decade later, the current third-generation facility in the Netherlands has the capacity to repurpose 65 million pounds annually, including landfill bound agricultural film being converted into ground protection mats.





Advantages of Compression Upcycling™ versus other plastics recycling technologies:

- Proven technology with large-volume capacity
- Scalable at lower capital costs than alternatives
- Regenerative material extends life of single-use plastics by decades
- Cost and performance competitive products for large-volume markets
- Lower energy use and emissions than competitors
- · High tolerance for dirty, mixed, ocean, and even degraded plastics
- Significant carbon credit offset and plastic credit production
- Profitability enables incentivization for feedstock collection and material stewardship
- Direct conversion eliminates cost and energy of pelletization and transportation
- Compelling municipal, corporate, and military applications

In a business environment in which dirty LDPE is measured by the cost of disposal, we create and incentivize long-term collection to command market share. A Material Recovery Facility with a bale of plastic film and flexible packaging can now view the bale as an asset rather than a cost because we can use the "problematic" material in our manufacturing process. This shift enables a MRF to change its focus from cost management into a long-term revenue strategy.

Utilizing this proven and patented technology provides an alternative to sending single-use plastic to landfills. Creating a market for aggregation, densifying it for better stewardship, and manufacturing it into value-added products including shipping pallets, ground protection mats, plywood substitutes, sidewalks, curbing, and more which offer lower cost and equal or superior performance.



ECOGLOBAL

We are a social enterprise focused on the strategic and sustainable expansion of low-energy, low-emissions Compression Upcycling[™] manufacturing technology with an opportunity to own the intellectual property, patent, rights, and specialized production equipment for the U.S. and Canada.

Our team members and advisors have invested thousands of hours speaking with experts across the linear life cycle of LDPE film and flexible packaging-extraction, refinery, production, conversion, processing, consumer uses, collection, post-consumer processing, and disposal. Polymer scientists in higher education, industry and government, and other environmental scientists have affirmed its positive material attributes, including being non-toxic, water-impervious, and capable of long life. Everyone agrees the single-use, throwaway system is irresponsible, costly, and does damage to the environment.

Motivated by the opportunity and responsibility of addressing a growing plastic problem, and with a clear-eyed understanding of the challenges of collecting and sorting this type of plastic, EcoGlobal has chosen a long-term orientation around material reuse and stewardship.

Adopting a 100+ year-long view business model around our technology enables us to add decades of circular reuse and other important benchmarks:

- · Capture and collect plastic to prevent leakage into the environment
- Repurpose film and flexible packaging into value-added, multi-life cycle products
- Replace nonrenewable, virgin resources with environmentally beneficial alternatives
- Localized sourcing to support use and reuse of feedstock and products
- Circular outcomes with local jobs, collection infrastructure, and diversified uses
- Collaborative partnerships to advance the Environmental Stewardship of Materials™

Employing a multi-lifecycle, georegion, carbon-centric approach, we aim to further leverage the value and profitability of the technology, and make social impact investments to advance collaboration, standardization, transparency, and equity. Our team is composed of talented professionals with 575+ years of collective experience, leadership skills, business acumen, and technical skills-including specialized expertise in feedstock, post-consumer collection, logistics, product development, sales and large-scale production.

Having taken a deep dive into the ecosystem of plastics, we have engaged industry, government, academic, and policy stakeholders across the plastics value chain, including petrochemical companies, processors and converters, consumer packaged goods companies, retailers, collection services, landfill operators, and competing recycling technologies. With thousands of hours of in-market research, planning, and assessment of more than a dozen locations, our 20+ member team is well positioned for immediate development, growth, and expansion throughout the U.S. and Canada.



FEEDSTOCK

The feedstock, or primary raw material, used in Compression Upcycling™ manufacturing comes in various forms of plastic derived from low density polyethylene (LDPE).

A thermoplastic material within the family of polyolefins which are petrochemical-based plastics, LDPE is the most commonly used grade of polyethylene. Almost everything we consume or touch, utilizes plastic film in the journey to the marketplace.

It is non-toxic, water impervious, non-contaminating, highly break resistant, chemically inert, insolvent at room temperatures, resistant to acids, alkalis, alcohols, bases, esters, oils and greases, aldehydes, and ketones, lightweight, and inexpensive to produce. These properties and attributes make it appropriate for a variety of consumer, commercial, and industrial products and applications, including:

- Plastic bags (shopping, food, trash, drycleaner, etc.)
- Multi-layer food packaging (potato chip bags, juice pouches, pet food, etc.)
- Six-pack rings
- Agricultural bags and mulch film
- >> Healthcare (pharmaceuticals, medical instruments, supplies, etc.)
- Waterproof carton lining
- Plastic wraps
- Snap-on lids, caps and closures
- Wash and squeeze bottles
- Corrosion protection layer for work surfaces
- Computer hardware covers and packaging
- Housewares
- Flexible toys
- Water pipes and hoses
- Wiring and cables

Compression Upcycling[™] has a tolerance for dirty LDPE and mixed polyolefins. The technology can utilize mixed color LDPE waste with physical contamination (inert waste) at the macro level-i.e., dirt, glass fragments, stones, grit, soil, paper, glues, product residues, cellophane, leather, cleaning pads, cotton fabrics, wood, foamed materials, carton, steel, metals, oils, organics, and other plastics like Polypropylene (PP) and High-density polyethylene (HDPE). Competing technologies typically require feedstock to be single-layer, clean, dry, and free of labels.

Sourcing Volume and Examples

Most of the LDPE produced in North America, and significant additional volume resulting from imported goods, is currently handled within the waste and truck collection system. Though significant amounts of plastic film and flexible packaging currently goes into the trash, the sheer volume of readily available, "surface material," is more than sufficient to supply the feedstock needs of several EcoGlobal factories.

Residential

While most communities do not include plastic film and flexible packaging in their recycling programs, well over 200,000 tons of misdirected surface material arrives annually at MRFs with most going to the landfill.

Medical

Used extensively in the healthcare system to help prevent the spread of dangerous diseases, more than 1 million tons of clean, non-infectious, healthcare plastics are used annually, in the United States alone.

Agriculture

Plastic films lower pesticide use, water consumption and storage and transportation costs. Extensive LDPE use includes forage wrap, greenhouse covers, mulch films, grain storage, fertilizer, seed packaging, animal feed and vitamins, hoses, containers, and irrigation.

Sourcing Strategy

We will initially source feedstock from across the U.S. and Canada for education and demonstration purposes, and to speed market development and expansion to meet the needs of partners. Our eventual goal is to source all feedstock from within a limited radius of each production facility to advance circular reuse of the material over multiple life-cycles.

EcoGlobal is planning to work directly with feedstock providers including municipal, industrial, commercial, institutional, and community partners to model and demonstrate improved collection and management practices. By offering a portfolio of strategies to direct value and investment to improved collection and reuse, EcoGlobal will offer its partners a long-term approach with lower costs and better environmental outcomes.







Rail Use and Value to Our Business

EcoGlobal is rail-centered for a variety of business and environmental reasons. Densifying plastic film and flexible packaging feedstock through baler compaction enables more efficient handling. Moving all inbound raw materials and outbound products via box rail cars provides greater volume and requires less energy than trucks, and enables a variety of business benefits, including:

- Containment (compare to a tractor trailer splitting open on a busy highway)
- Measurement (greater ability to aggregate different feedstock types)
- Storage (superior overall business value to land base storage)
- Market expansion (rail better supports deployment of heavy products)
- Production expansion (rail better supports movement of molds)

Shipping fully-loaded cars in both directions results in no empty miles for the rail cars, sharpening our carbon focus and dropping transportation costs by 50 percent.

PRODUCTION PROCESS

The capability of the manufacturing process to accept a variety of plastic feedstock and additional post-consumer materials, broadens its performance capabilities for diverse product applications.

Highly tolerant, non-discriminant, Compression Upcycling™ converts single-layer, multilayer, metalized pouches, and even film with adhesive-backed labels, into Ekopolimer™. The recyclable material comes from reactive-extrusion mixing of LDPE, minerals, and additives placed under pressure in an exclusively physical process (size reduction, washing, drying, melting, mixing, cooling, and, depending on the product, assembly). Manufacturing generates no industrial wastewater or toxic gas emissions, and nominal production waste. Pigments, UV stabilizers, and/or fire retardants can be added prior to extrusion.

It is scalable with lower capital requirements than other options for post-consumer plastics. A standard 24/7 production line repurposes more than 37 million pounds annually and requires a new/existing 50,000 square feet building with 43 feet of interior vertical clearance, on a rail accessible site with storage capacity and commercial utility connections. Though feedstock formulation varies by product and application, all material goes through a common production process:

- Closed loop washing system cleans LDPE and floats out unwanted materials
- · Material is then chopped, cut into smaller pieces, and cleaned
- It is then heated and converted into a composite mix of dough like consistency
- Batch dispensed into hot molds and placed under hydraulic pressure
- Cooled in a closed water bath and then removed from the molds

A significant advantage of Compression Upcycling[™] is the self-contained nature of directly converting problematic plastics, without pelletization, into value-added products and applications. Heating material at lower temperature and within a single production process offers dramatically smaller energy use and operational costs. Other technologies typically use more energy, have two or more stages of production, and require moving materials between phases of production.

EKOPOLIMERTM

A densified and value-added material Ekopolimer[™] offers the attractive chemical and property attributes of LDPE, but physically repurposed for new use outcomes with lower cost, equal or better performance, and significant environmental benefits over virgin materials.

Offering decades of productive life, Ekopolimer™ is recyclable, made from 100 percent post-consumer materials, and suitable for a broad array of uses.

Material Features and Characteristics (ISO Rated)

- Highly Durable
- Water impervious
- Salt & Chemical Resistant
- High Load Capacity
- Impact and break resistant
- Equal or better fastener performance
- >> Low flame spread
- Compressive-Tensile-Shear Strength
- Variable flexural modulus capability
- Temperature Range: -40F to 158F degrees
- >> Slip Resistant
- Ease of production molding
- Less expensive than other plastics

We are focused on high-volume applications made from Ekopolimer[™] and other post-consumer materials which offer lower cost, equal or superior performance, and significant environmental benefits. Manufactured Ekopolimer[™] products offer tangible competitive value in the market and a climate friendly alternative to products made from wood, steel, asphalt, and concrete.





PRODUCTS AND MARKETS

One benefit of Ekopolimer[™] is it can be easily engineered and formed into diverse, price- and performance-competitive products for a wide range of markets.

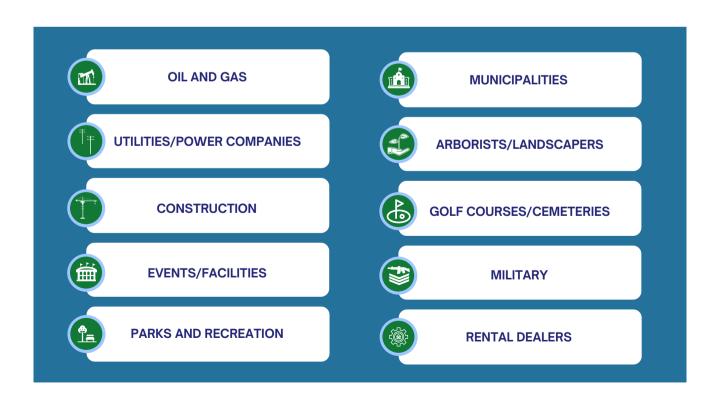
Its material characteristics, low cost of production and environmental benefits make Ekopolimer™ an attractive alternative to common applications made from wood, concrete, and asphalt. A long-lasting alternative to plywood, a lighter weight curbing, and permeable pavement and walkways all represent high-volume examples.

As the marketplace increasingly requires accountability for the climate-related footprint of products made from carbon-producing virgin materials, carbon-offsetting Ekopolimer™ offers additional advantages.



A decade's worth of successful manufacturing of manhole covers, shipping pallets, and ground protection mats in the European market, affirms the efficacy of the manufacturing process. This highly profitable opportunity for U.S. and Canadian expansion is built upon our deep understanding of product applications for commercial, municipal, industrial, residential, military, and other markets. Against the backdrop of a proven technology, we invested many years of in-market research within specific industries and applications where Ekopolimer™ based products fill a need and are truly differentiated from existing products in the market. To deepen our understanding, we engaged a cross-section of customers who tested the material in a variety of conditions and environments, and worked with experts on several market-viable product prototypes.

After selling EkoMats[™] in the U.S. and Canada to over two dozen customer categories, we have confirmed that we offer a superior product at a lower price-point than any competitor in the multi-billion dollar ground protection mat market. EkoMats[™] enable vehicles, equipment, and people to cross soft or uneven terrain while protecting the landscape from that movement. With product supplied from the Netherlands, our immediate goal is responding to existing demand in the burgeoning ground protection mat market:



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SALES AND DISTRIBUTION

In advance of domestic production, our immediate goal is to use our marketing, sales, import, and distribution experience to expand our sales channels and distribution network to respond to demand within the ground protection mat market.

Years of in-market testing, aggregation of diverse positive testimonials, and competitive analysis, have established that EkoMats™ equal or outperform other composite mats.

Thanks to feedback from customers, our redesigned 4' x 8' EkoMat will be easier to maneuver compared to other mats. Increased production capacity in the Netherlands enables us to profitably import and serve existing customers, penetrate new markets, and diversify our sales portfolio. As the current low-cost leader, we know price reductions made possible with domestic production will offer us a commanding market position.



The long-term, reusable nature of Ekopolimer[™] and varied product capability, underlies our focus on building networks of well established, locally owned retail dealers with storage and logistics capacity and ability to sell/lease durable, industrial products. Our strategy includes a georegion approach in the Northeast, building a 100+ dealer network within existing distribution channels of building supply, waterworks, and heavy equipment dealers. Based on previous experience, these channels penetrate new commercial and residential markets, where little competition exists.

Our new EkoMat and price point also offers significant direct sales opportunities to volume users including arborists, construction, utilities, municipalities, and landscapers. We will begin national retail distribution through a waterworks dealer buying cooperative. We will also leverage our favorable position as a federally-certified HUBZone business to supply growing demand from a variety of federal agencies, including the military.

EkoMats[™] varied uses and applications make it an ideal product entry for federal deployment, and its performance, low price point, and recycled content aligns with existing procurement objectives. It also offers a massive market opportunity to demonstrate Ekopolimer[™] as the federal government, and several major industries, respond to new policies requiring climate-friendly products and materials.

In conjunction with sales efforts for EkoMats[™], we plan to roll out EkoTrax[™] (coupled transportable mat system for boom and utility trucks) and mat systems for beaches and trails (enhanced access for users with mobility challenges). We will begin market testing for EkoSheets[™] (plywood substitute) and EkoPallets[™] (shipping pallet). Sales and distribution efforts prior to domestic production will model and enable rapid market development for the initial facility, and areas targeted for expansion.



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ECOGLOBAL MIDDLEBURY

At the core of EcoGlobal Middlebury is demonstration, education, and circular economy outcomes. The facility and sustainable infrastructure serve to model scalability, develop products, and speed expansion.

EcoGlobal's due diligence review began in 2013 and quickly highlighted Vermont's many strategic attributes, including rail accessibility which allows a smaller scale facility to model and support large-scale expansion elsewhere. After considering our needs and helping us explore rail locations in several communities, the Town of Middlebury was recommended to us by Vermont Rail Systems in 2014.

Since then, critical resources from the town, Middlebury College, State of Vermont, and the Office of U.S. Senator Leahy advanced our business and market planning for the region, as well as expansion assessments for ten additional locations in the U.S. and Canada. Along with industry, trade and climate related recognition, recent support from the USDA, Addison County Regional Economic Development Corporation, and the Addison County Regional Planning Commission, has crystallized our plans for domestic expansion.

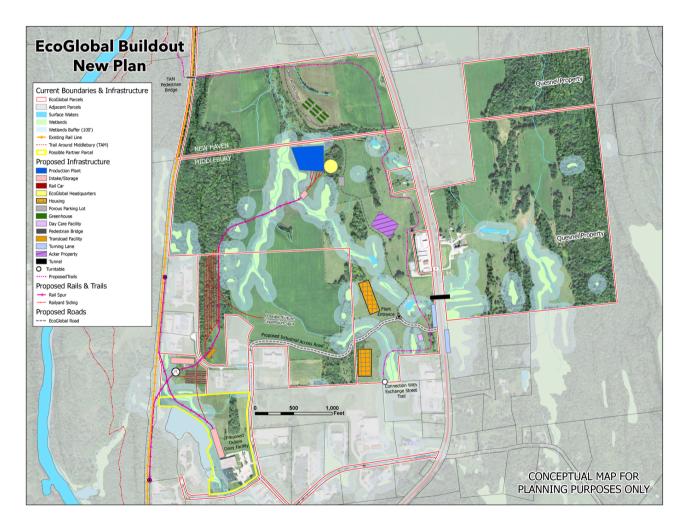
EcoGlobal Middlebury

As EcoGlobal's headquarters, EcoGlobal Middlebury will serve as the flagship production facility, education center, and campus, as well as welcoming customers, business partners, and visitors. A rail park constructed by EcoGlobal, including rail siding, shunt and subsidings, crossing, transload terminal building, and storage yard, will serve the factory and offer shared rail services to others in the Middlebury industrial park and beyond.

Equipped with fourth generation Compression Upcycling[™] technology, the four lines will produce commercial products, provide custom/contract production services, and facilitate research and development. Providing diverse feedstock conversion outcomes and responding to the needs of our corporate, municipal and military partners will help to inform and define our market and product strategies for other markets across the U.S. and Canada.

EcoGlobal Middlebury provides a venue to share our process, material and ESM methodology (Environmental Stewardship of Material™) with the world. Differentiated utilization of the production lines also creates a portfolio of sales and revenue streams, including commercial products, contract production, sponsored research, carbon offsets, and plastic credits.

The factory and headquarters are at the center of EcoGlobal Middlebury's sustainable infrastructure, a 370+ acre campus designed to support our workforce, create permanent natural and recreational enhancements for the community, and highlight regenerative agriculture for residents and visitors alike.



Site and Attributes

EcoGlobal Middlebury seeks to purchase 218 contiguous acres in Middlebury and New Haven, VT, an adjacent 3-acre parcel in Middlebury, and 152 contiguous acres in Middlebury and New Haven which comprise the former Quesnel Farm. The proposed campus lies north of Middlebury's Industrial Park, bounded by the rail line on the west, the former Quesnel Farm on the east, and Vermont Route 7 running through its center. In addition to rail, road, trails, and public transit accessibility, the area has available water, sewer, electric, gas, and high-speed internet services to support our mixed-use objectives.

Land cover for the parcels includes a diverse mix of agricultural soils, open fields, shrub/scrub, mixed forested areas, wetlands and water corridors, and habitat areas. Local geological composition includes dolostone, limestone, marble, and sandstone. As an environmental company, our focus is sustainable infrastructure, which minimizes development impact on wetlands and other natural assets. For ourselves and our visitors, the land we conserve and protect is as important as the portion we develop.

Building and Infrastructure

Constructing and operating a sustainable campus and related infrastructure is of paramount importance. Acquiring more land than our footprint requires, supports our ability to design and integrate our physical infrastructure so that it respects and works in concert with the landscape and natural systems. A large campus enables us to create long-term protections for undeveloped portions.

EcoGlobal Middlebury will require the development of 40 acres for mixed-use infrastructure, including factory, offices, conference center, housing, daycare, maintenance, roads, walkways, and parking. In coordination with the railroad and neighbors, an additional 18 acres will be developed into the shared rail park. We will place permanent agricultural, conservation, and protective covenants on more than 80% of the 370+ acres, including both sides of Route 7 to provide a natural and agrarian northern entrance to Middlebury.

The 200,000 sq. ft, production facility will be a high-bay industrial building with production, storage, lab, staff services, locker rooms, restroom, and health and safety. It will be linked to the adjacent headquarters, allowing visitors to view the plant and process. The contiguous 25,000 sq, ft. headquarters will serve as the entrance and include a kitchen, cafeteria, administrative offices, and conference center. The production facility, headquarters, and other buildings will utilize mass timber design, living wastewater and rain collection systems, and solar generation. Waste process heat will be directed to onsite greenhouses, to produce food for the cafeteria and local agencies. Aggressive filtration/ventilation/cooling systems for the production floor will be used to ensure the comfort, safety, and health of employees.

Rail Access, Services and Connections Beyond Vermont

Rail access will be via a switch located 1/3 mile south of the Middlebury Wastewater Treatment Plant. The siding will head northeast, crossing Industrial Avenue to a transload facility and rail storage yard with 175 car capacity. It continues north and then east to an intake/analysis building before entering the factory rail yard. Planned sub-sidings and shunts will serve the proposed Dubois Dairy Manufacturing Plant and provide rail access for undeveloped parcels north of the current terminus to Mainelli Road.

The main line serving Middlebury is owned by Vermont's Agency of Transportation and operated under long-term agreement with locally owned, award winning, Vermont Rail System (VRS). The highly regarded short-line railroad is a portal to the network of U.S. and Canadian rail companies, with daily trains and connections to Canadian Pacific Railroad, CSX, Norfolk Southern and Genesee & Wyoming.



REGULATORY AND COMPLIANCE

Our mission is to address the plastics crisis, without creating other environmental problems in the process. Compression Upcycling™ produces value-added, reusable material without polluting water, air, or land.

Now in its third generation, Compression Upcycling[™] is ISO certified and has been subjected to extensive and favorable regulatory review at the original factory in Turkey and two subsequent locations in the Netherlands.

The permit-friendly manufacturing process has zero toxic gas and otherwise low air emissions, no manufacturing wastewater or effluent, no hazardous materials, and lower energy consumption.

When EcoGlobal undertook due diligence for domestic expansion in 2013 an immediate priority was to audit the production process for regulatory compliance. It was essential for us to affirm the safety and environmental impact of the process and determine if we faced any regulatory hurdles. Vermont has gained a national and international reputation because of its long history of progressive leadership in environmental regulation and conservation.

No Harm Process Exceeds Environmental Regulations

We knew that Vermont's guidance would effectively cover all the U.S. and Canada because its stringent requirements meet or exceed threshold standards elsewhere. Lab testing and regulatory documentation were shared and reviewed in individual meetings with the following Vermont regulatory and compliance officials:

- Air Doug Elliott, Section Chief, Dept. of Env. Conservation
- Wastewater Randy Bean, Wastewater Management, Dept. of Env. Conservation
- Solid Waste James Surwilo, Solid Waste Management, Dept. of Env. Conservation
- Mia Rothlein Waste Management. & Prevention, Dept. of Env. Conservation
- Annie Macmillan Toxicologist, Vermont Agency of Agriculture, Food and Markets
- John Miller Permit Specialist, Dept. Of Env. Conservation

The validated process review falls far below air, water, and waste compliance requirements, and advances solid waste regulatory outcomes, which encourage landfill diversion. We are compliance friendly everywhere, and drawn to states and provinces that are focused on progressive collaboration around robust material reuse and stewardship.

Local Land Use and Site Approvals

Though Compression Upcycling™ technology is advanced, its set-up and production are similar to manufacturing operations of comparable size. Having assessed dozens of standalone facility sites in the U.S. and Canada, including some that remain on our priority list, we know that local/state approvals for existing rail accessible manufacturing space is straightforward. In some cases, co-locating with an existing MRF will speed the approval process. Generally, the biggest factor in the timeline for commencing production is not permits, but whether there is a readily adaptable building. The construction calendar can be shorter than the timeframe required to order, build, assemble, test, transport, install, and retest the production equipment.

Middlebury, Vermont - Challenges and Opportunities

The EcoGlobal Middlebury project is the culmination of many years of planning, reflecting the need for an integrated approach to the global crisis of poorly stewarded plastics. The genesis goes back to 2014, when helpful and encouraging conversations with the Town of Middlebury, Middlebury College and the State of Vermont first highlighted the attributes of the location. With rail access and sizable available parcels, we realized a small-scale factory could demonstrate production outcomes to support large-scale expansion.

As we extended our journey across the ecosystem of plastics, we gained understanding of the importance of modeling our plastics production in the context of broader, carboncentric, circular economy objectives. With Compression Upcycling™ at the center, the EcoGlobal Middlebury campus is designed to integrate and celebrate sustainability innovation. In addition to site development for rail, production, and administration functions, it requires mixed-use infrastructure in response to the diverse needs of our customers, employees, neighbors, workforce partners, the community, and global visitors.

A project of this size and scope involves complex planning and decision-making at the local, regional, and state level, and incorporates some federal review. Since the proposed site is not currently zoned for industrial or mixed-use, includes wetlands and prime agricultural soils, and requires significant infrastructure collaboration with a variety of stakeholders, EcoGlobal Middlebury faces permitting obstacles which most companies would avoid. Yet, many years of encouraging and supportive discussions with local officials suggest a path forward.

Having spent extensive time in the community and at the site, we know that Middlebury's many strategic attributes justify significant investment in a comprehensive plan to secure approval. After carefully considering the implications for each level of permitting review, we believe our plans will respond to, and exceed, criteria and current regulatory policy objectives. Should local opposition arise, or we face unexpected delays, we can quickly pivot to other identified locations which are production-permit ready.



WORKFORCE

Our workforce is central to EcoGlobal's mission of multi-decade material innovation, management, and stewardship.

We are a quadruple bottom line business encompassing—people, place, planet, and profits—a value system which reflects our belief that employee-owners and georegion-partners are best positioned to successfully advance, guide, and manage circular material outcomes. A long-term orientation informs our approach to recruiting, training, advancing, and retaining employees. Living wages, good benefits, profit sharing, opportunities for growth/leadership, and ownership spur productivity, workforce retention, creativity, and innovation.



Compression Upcycling™ is scalable to the volume of material to be repurposed, which for most regions will mean multiple 24/7 production lines. A line requires approximately 100 local employees to fill 75 production and 25 production support jobs. While a fulfilling job and opportunity for growth are important, a workforce with a significant percentage of low-skill positions also needs housing, food security, daycare, transportation, and other support systems. It's why, irrespective of production location, our business model assumes significant investment and ongoing financial support for community and social service infrastructure. The ability of our employees to flourish is predicated on the totality of their well-being and security.

Addison County Region - EcoGlobal Middlebury

EcoGlobal Middlebury will require 300+ local employees for production, headquarters, farm, rail, and other operations; the majority of which are low-skill positions. The Addison County region enjoys a history of low unemployment. Demand for traditional low-skill and unskilled workers is very high and many employers struggle to fill positions. We could offer higher wages, but creating additional competition within existing labor pools could impact the local hospital and service businesses on which we rely.

As a practical matter, and for the broader opportunity it offers, we are choosing to build a workforce drawn from marginalized groups: formerly incarcerated, substance/domestic abuse, homeless, veterans/others with mental/physical challenges, refugees, and a range of people who face obstacles securing employment. Beyond a good job and benefits, proximate housing, daycare, food security, transportation, and support services for our employees and their families will enable their growth. We choose this path for a number of reasons:

- High demand for workers and low unemployment requires a progressive approach
- No benefit to competing with other employers for existing pool of low-skill workers
- Enhanced financing available for sustainable infrastructure to support workforce
- Investing in people creates retention, loyalty, innovation, and employee ownership

Developing an inclusionary, sustainable workforce is important to success, enabling employees to gain diverse insights and understanding from one another. Supporting a productive and thriving workforce within EcoGlobal also offers rippling positive effects in the broader community.



COMMUNITY INVESTMENT

Reducing our carbon footprint goes beyond production and distribution. A circular economy requires workforce support, community infrastructure, and respect for natural systems.

As a carbon-centric company with a long-term orientation, our success is built on the economic security and well-being of our 300-employee workforce and the Middlebury community. Ekopolimer™ offers many decades of material reuse, and will require committed stewardship from several generations of employee-owners. We will design, engineer, build, hire, and buy local to exemplify and advance circular economy outcomes.

The design layout of our walkable, bikeable, ADA-accessible campus, and related infrastructure will concentrate related uses, and be developed in concert with wetlands, habitat areas and landscape topography. Mixed-use site development enables proximate work, food, housing, daycare, and non-vehicular mobility for employees. Addressing non-job needs of our workforce also generates measurable co-benefits with significant value in clean tech financial markets. Sustainability-oriented site development which also serves other businesses, and the community further broadens and enhances co-benefits value. Planned investments for the campus, including related access and resource programs, reflect our interest in sustainable physical and human infrastructure which supports our company, the community, and visitors.

- Low Income housing \$50 million investment and ongoing support
- 24/7 daycare \$7.5 million building and ongoing support
- Pedestrian / bike trail system \$10 million+ plus investment and ongoing support
- Regenerative agricultural food production \$5 million+ investment and ongoing support
- Wetlands and surface water improvements \$1 million investment and ongoing support
- Public transit \$500 thousand investment in Tri-Valley Transit and ongoing support
- Habitat enhancement/wildlife corridor \$5 million investment and ongoing support
- Conservation and other easements to protect the northern entrance to Middlebury.

A profitable, climate-friendly focus for waste reduction, beneficial products, and community development, offer a compelling business model and proactive environmental outcomes, including new multi-generational stewardship of former single-use plastics.

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CAPITAL REQUIREMENTS

EcoGlobal's 20+ members possess the strategy and capabilities to leverage investor capital and non-dilutive financing to quickly advance EcoGlobal Middlebury and subsequent expansion.

The \$300 million budget commences domestic production, and supports rapid U.S. and Canadian expansion in targeted locations. Our size, diverse skills, existing internal and external relationships, and execution readiness, enables us to operationalize multiple objectives:

- Launches sales, market, and product development
- · Secures carbon offsets, plastic credits, and other non-dilutive capital
- Enables federal SBIR strategy, including significant military
- Advances corporate, municipal, and NGO offtake agreements and partnerships
- Constructs, equips, and starts production within three years

Approximately two-thirds of the budget comprise hard assets in the form of property, plant, equipment, molds. and inventory. The balance addresses IP, personnel, contracted expertise, research and development, and expenses.

USE OF FUNDS FOR DEVELOPMENT

>	Real Estate	\$	7,500,000
>	IP	\$	60,000,000
>	Production Equipment	\$	115,000,000
>	Other Equipment	\$	10,000,000
>	Factory and Headquarters	\$	50,000,000
>	Other Buildings	\$	12,000,000
>	Personnel	\$	9,250,000
>	Engineers, Architects	\$	6,100,000
>	Leasehold Improvements	\$	8,500,000
>	Molds and Inventory	\$	9,300,000
>	Expenses	\$	12,350,000
>	TOTAL CAPITAL	\$ 3	300,000,000

Growth and Diversified Revenue Streams

EcoGlobal Middlebury's mixed utilization of four production lines for commercial products, contract and custom production, and research and development, builds a foundation for rapid growth. The plan includes an educational center to demonstrate, model, and create varied product outcomes, and accelerate expansion to targeted locations and those which will follow. Two production lines will be visible to visitors and offer a start-to-finish view of converting waste stream plastic into value-added commercial products. Ground protection mats, shipping pallets, and a plywood substitute will start the list of large-volume products to support sales and seed markets in priority expansion locations.

Though far more profitable than the norm, the commercial product lines provide a traditional manufacturing revenue model. Dedicating lines for contracted production and R&D adds a services revenue model, and responds to specialized needs of corporate, municipal, and military partners. Additionally, technologies which are climate-friendly and/or better stewards of plastics generate two additional revenue models: the quality, volume, and value of carbon offsets and plastic credits produced annually will be significant. Diverse utilization and income strengthen EcoGlobal Middlebury with exceptional returns. For investors, the community and partners, plus a broad-based income portfolio enable thoughtful, intentional growth and long-term success.

Diverse utilization and income strengthen EcoGlobal Middlebury for growth and exceptional returns:

EcoGlobal Middlebury - Four Year Financial Summary

	Year One	Year Two	Year Three	Year Four
Activity	Plan & Permit	Construct & Equip	Set Up & Start Lines	Full Production
Revenue Source	Import & Sales	Import & Sales	Production	Production
Product Units Sold	7,289	51,064	807,750	1,668,000
Sales Revenue	\$783,939	\$5,998,996	\$49,423,500	\$83,580,000
Offsets & Credits Revenue				\$51,664,000
Expenses	\$78,359,595	\$224,052,584	\$50,671,782	\$46,125,419
Net Profit	-\$77,575,656	-\$218,053,588	-\$1,248,282	\$89,118,581
EBITDA EBITDA Margin	-\$ 77,287,561 -9858.87%	-\$213,655,254 -3561.52%	\$12,589,500 25,47%	\$106,195,000 78.52%

PROJECT FINANCING

EcoGlobal Middlebury offers a highly profitable investment vehicle with significant financial, social, and environmental returns, with the opportunity for expansion-related outcomes.

Compression Upcycling[™] and the sustainable methodology and infrastructure which surrounds it, are designed to enable decades of profitable reuse of previously landfill bound plastic film and flexible packaging. Repurposing plastic waste into cost-competitive, value-added, recyclable products is highly profitable. Plastic credits and carbon offsets created by collecting and converting single-use plastic into durable material, and doing so with far less energy than alternatives, makes the process even more profitable. Their value is driven by numerous factors including quality, size, location, and community or environmental cobenefits that accompany the offset generation.

Carbon Markets and Offsets

Carbon offsets are market-driven instruments to help decarbonize sectors or economies. A carbon offset is a tradable credit that is used to offset greenhouse gas (GHG) emissions. An offset unit represents a metric ton of carbon dioxide equivalent that was either removed or not released due to direct, beyond business-as-usual actions such as converting waste into reusable material. They are generally divided into mandatory (compliance) markets and voluntary markets. Compliance markets are created and regulated by government bodies, usually set up as cap-and-trade emission trading that enable emitters to trade allowances for the right to emit up to their allowed limit or cap.

Voluntary programs are set up by independent nongovernmental organizations which establish rules and accounting for sellers and buyers to trade offsets under a public registry. In the voluntary carbon markets, organizations choose to voluntarily offset emissions—that otherwise would not be possible, or very expensive, by purchasing offsets from third-party projects that generate emission reductions or sequester carbon from the atmosphere. These actions are validated and verified by an independent, accredited third party to ensure the offsets are real, permanent, and additive.

Plastic Credits

Plastic credits are a market and funding mechanism to incentivise the removal of plastic from the environment, and create better uses than the landfill. Sale of credits provides investment in collection and reuse, and creates conditions that advance a circular economy beyond reduction and redesign. Credits are measurable, verifiable, and transferable, and further distinguished by 'collection' and 'recycling' units based on the method of plastic waste removal. Collection credits represent recovery of one tonne of waste from the environment, recycling credits represent one tonne of plastic converted to new use.

Companies and other entities wishing to take responsibility for the plastic they put into the environment purchase plastic credits to enable removal of a comparable amount through collection and better stewardship. They are motivated to address their plastic footprint but are otherwise unable to do so in a practical or economically viable way. However, they can achieve plastic reduction targets by calculating their plastic footprint, reducing that footprint, and purchasing a weight of Plastic Credits (measured in tons) equivalent to the weight of plastic they are unable to directly reduce.

Co-benefits Enhance Value of Carbon Offsets and Plastic Credits

Social impact and environmental co-benefits increase the quality and value of carbon offsets and plastic credits and often use United Nations Sustainable Development Goals (SDGs) as a guide. Offset and credit generation associated with multiple beneficial outcomes has superior value. EcoGlobal Middlebury's circular economy methodology, sustainable campus, and SDG related outcomes (workforce, housing, day care, regenerative agriculture, recreation, public transit, wetlands, habitat, etc.) provide a premium position in both markets.



Capital Staging

Increasing investor and business focus on climate change and environmental stewardship, and related government policies, have created explosive growth in the offsets and credits markets. Because demand so greatly outstrips supply, the net result is a robust futures market and rapidly increasing value for both carbon offsets and plastic credits. Amid these transformational markets, EcoGlobal's leadership benefits from the guidance of Vancouver-based David Oliver, an advanced thinker at the intersection of business, technology, and carbon accountability. His background and experience make him a leading government and business advisor in the burgeoning climate accountability markets.

We seek to raise an initial round of \$12.5 million of clean tech investor capital to operationalize our team, and to launch sales, distribution, and further market development; credential our carbon offsets and plastics credits; commence planning and site permitting; undertake federal SBIR strategy; and secure offtake agreements. Our ideal investor is interested in addressing the plastics crisis, likes a strategic approach and diversified rate of return, prefers a long-term orientation, and brings value-added counsel and expertise to EcoGlobal.

Capital Amount	Source	Timeframe
\$12.5MM	Investor Capital	Immediate
\$250MM	Carbon Offsets and Plastic Credits	10-12 months
\$37.5MM	USDA, SDG/ESG Financing	12-14 months

SUMMARY

Addressing our ongoing dependence on fossil fuels, the increasing risks of climate change, and the degradation of resources and the environment, are existential issues we all face at a global level.

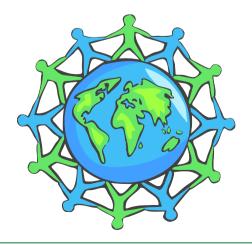
Waste reduction and recycling is one of the paths forward to address these challenges.

Compression Upcycling[™] is a game changing solution, turning trash into value, and offering positive economic and environmental outcomes. Ekopolimer[™] recaptures the energy required to convert oil into plastic. Upcycling single-use plastics into long-lasting and recyclable products, prevents waste by extending its life and simultaneously displaces more costly, carbon heavy materials.

EcoGlobal Middlebury is the flagship education center and campus for modeling sustainable innovation, providing tailored waste/cost reduction, demonstrating sustainability approaches for municipal, corporate, and military partners, and supporting rapid production expansion in the U.S. and Canada.

EcoGlobal's long-term, carbon-centric, georegion deployment of Compression Upcycling™ is a profitable business model to address systemic pressure points. Our strategy and deployment form an engine to transform a problematic, undervalued resource into a multi-generational commodity and a building block to advance circular economy benefits. Working with a range of partners, we look forward to developing environmentally friendly and valuable products, creating jobs, improving material stewardship, and becoming better focused on our relationship to the local and global environment.

The EcoGlobal team welcomes inquiries and discussion, and hope you will join us.



APPENDIX

1. EXECUTIVE SUMMARY

Summary description of the expertise, talents and experience of our people: EcoGlobal Leadership and Advisors

2. THE PLASTICS PROBLEM

Video views of LDPE material, different uses, and perspectives on the problem: Abundance of LDPE Plastic

Video shows the processing challenges of creating value from mixed materials: Material Recovery Facility (MRF)

PBS Video

Recycling plastic has been an uphill challenge

Images of post consumer LDPE examples and where it goes:
What happens to most single-use plastic film and flexible packaging

Sustainable Packaging Coalition Report 2020-21 Centralized Study on Availability of Recycling

3. COMPRESSION UPCYCLING™

Video showing production process at 3rd generation factory: New Outcome for Plastic Packaging

Advantages over other uses for post-consumer plastic Compression Upcycling™ versus other plastics recycling technologies

4. ECOGLOBAL

CFO narrated introduction to our business and thinking: EcoGlobal - Company Overview

Interview with our CEO highlights our values and approach: Podcast: Finding New Uses for Plastic Waste

Summary description of our mission and objectives: EcoGlobal Company Overview

From birth to disposal & beyond, conversations across the ecosystem of plastics: EcoGlobal Discussions-Corporate, Trade, Industry

5. FEEDSTOCK

Corporate collaboration and market forces galvanize opportunities: Growing plastics problem spurs interest

Images of material we divert from the landfill and repurpose: Examples of plastics we use for feedstock

Description of LDPE examples and a few large volume users: Ekopolimer Feedstock Sourcing

Vermont based feedstock sourcing: Chittenden Solid Waste District - Letter of Feedstock Support

Representative interest–farm community desire to find better outcomes: Cleanfarms Canada-Letter of Feedstock Support

6. PRODUCTION PROCESS

Video from first large scale processing facility: Production View-2nd Generation Plant

The value added material we make from single use plastics: Ekopolimer Manufacturing Process and Feedstock Overview

7. EKOPOLIMER™

Video of discovery about material: Ekopolimer: Revolutionary Reuse

Video of exploration about joining material: Weld Test

Video of workability for adaptation: Cutting Test

Video of unexpected performance: Ballistics Testing

ISO certified review of characteristics and performance: Lab Tests-Material, UV light, Migration

8. PRODUCTS AND MARKETS

Video about the value of using our ground protection mat:

EkoMats: Many uses, Save time + money

Video with our ground protection mat description and capabilities:

EkoMats: Performance, Specs, and Adaptation

Video of adaptation resulting in new products for trails and recreation:

EkoPicnic and EkoPlatform

Video of homeowner use demonstration for common application:

EkoMat: Walkway use

Video of utility company identifying problem and adaptation to solve problem:

EkoTrax Testing

Images highlighting diverse applications:

Examples of Ekopolimer use in different products

Analysis of customer categories and our competitive position:

EkoMats Product and Markets Report

Visual representation of benefits:

Plywood vs. EkoMats Comparison Chart

Retail dealer product overview:

Sample Sell Sheet

9. SALES AND DISTRIBUTION

Video slideshow of engagement and research:

Collaboration and Innovation

Video interview with customer:

Landscaper Saves with EkoMat

Summary draft description:

Federal Procurement-Ekomats Capability Statement-DRAFT

Brief description of demand:

Urgent Municipal Need

Testimonials from diverse users:

Ekomats Customer Comments

10. ECOGLOBAL MIDDLEBURY

Video flyover and description of location:

Proposed Site-Aerial Overview

One page summary description:

EcoGlobal Middlebury-Project Overview

Line utilization and production influencers:

EcoGlobal Middlebury-Production Overview

Overview of volume and value proposition:

Carbon Offsets & Plastic Credits

11. REGULATORY AND COMPLIANCE

Overview of testing of production outcomes:

Compression Upcycling-Process Emissions Compliance

12. WORKFORCE

Overview of our value system and approach:

EcoGlobal's Approach to Workforce

13. COMMUNITY INVESTMENT

An introduction to what informs our quadruple bottom line business: EcoGlobal-Community, Values and Impact

14. CAPITAL REQUIREMENTS

Detailed financials available to qualified investors.

15. PROJECT FINANCING

Ecoglobal team members describing the opportunity: Why Invest-Insights

Overview description of climate friendly finance opportunities: EcoGlobal Middlebury-Carbon Offsets and Co-benefits

Analysis Article: Change in federal policy a game changer: Climate Change Executive Order Impact on Federal Procurement

Analysis Report: explanation of the carbon markets and growth: David Oliver-Carbon Markets in BC (2021)

Three links: definitions, pricing, policy: Carbon Offset-Reference Resources

Analysis: carbon in our built environment: Embodied Carbon Review (2018

Overview of plastic credits and purpose: VERRA Plastic Waste Reduction Standard

Article: incentives to spur better outcomes: Plastics Credits Marketplace

LETTERS OF SUPPORT

We are grateful to the following organizations for sharing their views on the plastics ecosystem, about our technology and approach, and plans for EcoGlobal Middlebury:

Addison County Regional Planning Commission

Agricultural Toxicologist and Ag film expert

Cornell Cooperative Extension

Middlebury College

Middlebury, VT Selectboard

Ministry of Waste

Northeast Resource Recovery Association

Otter Creek Engineering

Sims Municipal Recycling

Solar impulse Foundation

Sustainability Management Association

Town of Middlebury, VT

Vermont Agency of Agriculture, Food and Markets

Vermont Rail System

Vermont Integrated Architecture

Vermont Secretary of Agriculture, Food & Markets

EcoGlobal is Grateful to the Following:

Turmaks and AHG State of Vermont Office of U.S. Senator Patrick J. Leahy Vermont Rail System Town of Middlebury, VT Middlebury College Northeast Resource Recovery Association Association of Plastics Recyclers Northern Forest Center UMass Lowell Sustainability Management Association Materials Recovery For the Future Ministry of Waste Klosters Forum, Ocean Plastics **Plastics Industry Association** State of Colorado Sustainable Packaging Coalition Solar Impulse Foundation **Coast Waste Management Association** Addison County Economic Development Corporation Addison County Regional Planning Commission U.S. Chamber of Commerce Foundation **Argonne National Laboratory**

Alliance to Fnd Plastic Waste





www.ekomats.com/midd