



ECOLOMONDO
VALUE YOUR WORLD

“Recycle”

Technology Overview

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Ecolomondo

Technology Overview

Ecolomondo is a clean tech company, that developed the Thermal Decomposition technology platform, **TDP**. This proprietary technology is based on a pyrolytic platform that converts hydrocarbon waste (scrap tires) into marketable resources: recovered carbon black, oil, gas, steel and fiber.

Hydrocarbons are molecules that are in all products manufactured using fossil fuels. The most common types of hydrocarbon waste are tires, plastics, disposed diapers, asphalt roof shingles and automobile shred residue (ASR). Once they achieve their end- of-life, these products could easily be feedstock for TDP.

TDP Highlights

- A green technology
- Produces quality resources at lower cost
- Efficient and safe
- Generates higher added value from waste and contributes to sustainability
- Energy self-sufficient
- Totally automated
- Emissions well below authorized standards – a capture rate of 99.97% of hydrogen sulfide (H₂S)

TDP Benefits the Environment

Due to their extraordinary properties, hydrocarbon materials are increasingly being used to manufacture consumer and industrial products. Once they achieve their end-of-life, many of these products end up in landfills. Burning tires for fuel (ie. Cement kilns) creates CO₂, one of the main causes of global warming. In both cases, they destroy resources that could easily be recycled for reuse.

TDP does not destroy waste, it uses heat to process it while safeguarding its molecular integrity to create recycled quality resources that can easily be reused to manufacture other quality products.

Sustainability: A Global Concern

Waste as a whole and its disposal are a major source of concern to all governments and environmentalists.

It is evident that global environmental sentiment is responsible for the increasing momentum that encourages recycling for reuse, a pillar of the circular economy.

Global waste as a feedstock is abundant and will continue to expand as global population and consumption increases.

Recycling waste to produce resources for reuse will lead to greater supply, lower costs and contribute to future sustainability.



Tire Waste as Feedstock

Scrap tires are abundant and relatively cheap to collect as feedstock, and when shredded, even cheaper to transport.

Tire waste yields higher added value compared to other types of hydrocarbon waste, because tires have a high concentration of recovered carbon black, a resource with high demand and commercial value.



Revenue of TDP Turnkey Facilities

Revenue streams for TDP turnkey facilities come from the sale of recycled resources produced by TDP, tipping fees, carbon credits, and other government incentives.

Profits From Waste

TDP recovers five key resources from tire waste: carbon black (used as a strengthening agent for tire and rubber goods, coloring agent for plastics, oil (sold for fuel, lubricants, heating oil and asphalt), steel (sold to manufacturers of other steel products), gas (reused as an energy source to heat the reactors) and fiber (used in industrial products such as composites).



We expect that demand for recovered carbon black and market prices will continue to rise because of the tight supply of virgin carbon black.

- Increasing per capita consumption
- Steady growth of global population
- Industry shortages, where demand is expected to outpace supply
- Environmental restrictions on production of virgin carbon black should increase interest in recycled carbon black substitute.

End-Product Demand

New markets and uses for recycled end-products are rapidly making waste-pyrolysis a viable option in the recycling of hydrocarbon waste.

We believe that increased scarcity of resources, caused by increasing consumption, will drive demand followed by higher pricing for recycled resources, and to levels that will make waste-pyrolysis and waste-to-resources technologies a viable commercial alternative.

What sets Ecolomondo's Technology Apart?

Our technology is **simple, sustainable, reliable and robust.**

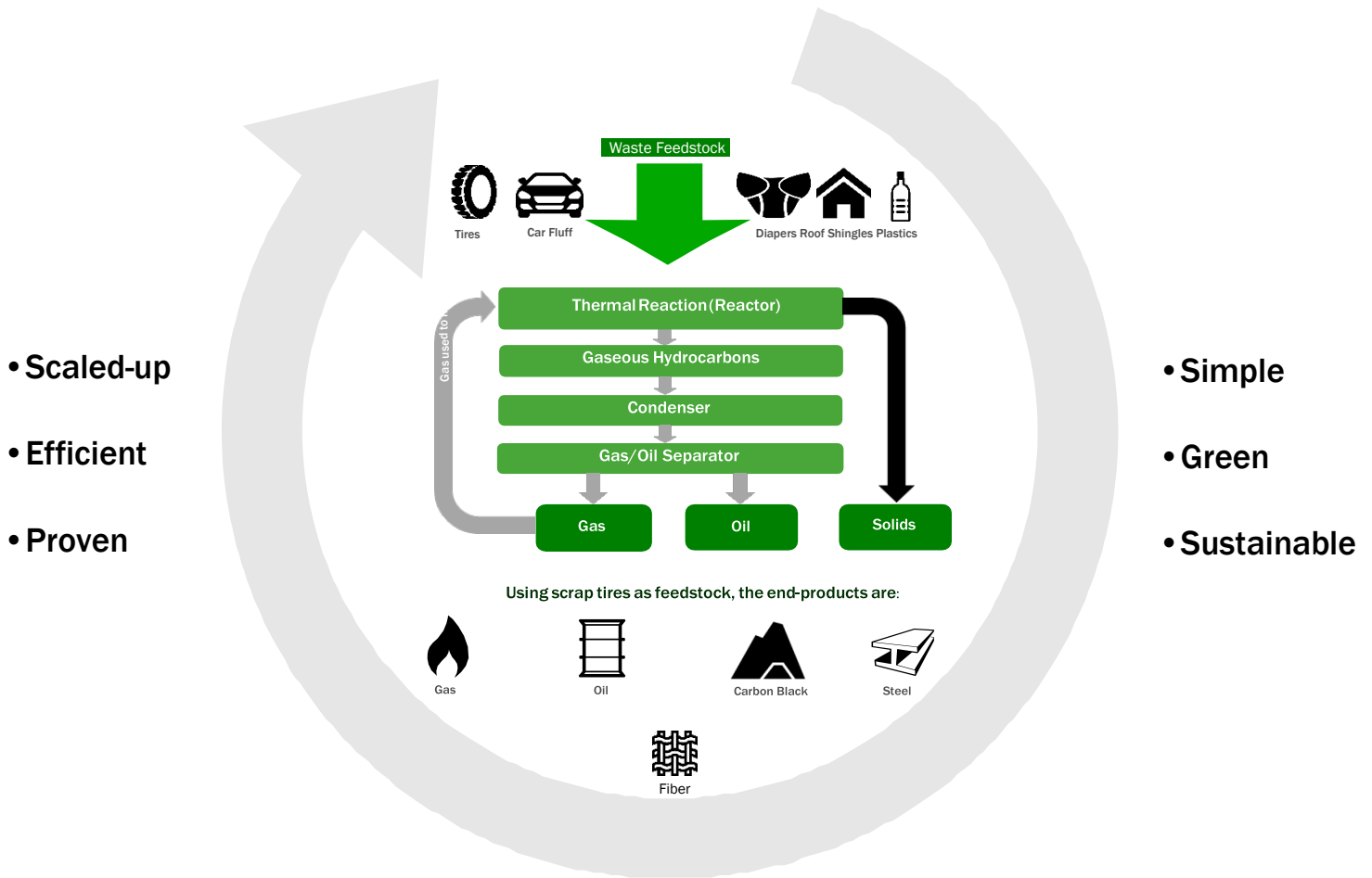
TDP turnkey facilities have the following key advantages:

- Already scaled to industrial size
- 25+ years of experience and data acquisition
- First mover advantage
- Strategically positioned to be a market leader
- Proprietary, turnkey automated system
- Efficient and safe process parameters
- Energy self-sufficient
- Respects environmental standards
- Scalable, modular technology
- High-quality yield that has global demand

Pyrolysis Industry

The pyrolytic platform, that is the base of the TDP technology, uses heat to thermally alter matter (waste) in the absence of oxygen. It allows end-of-life products (that in most cases would be disposed by landfilling or burned as an energy source) to be recycled for reuse. Expanding consumption and the need to reuse resources create many new opportunities for the pyrolysis industry and companies such as Ecolomondo.

The following diagram summarizes the TDP process:



Ecolomondo's Thermal Decomposition Process

TDP is a closed loop, pyrolysis technology that operates in an oxygen-free environment, using positive pressure, a batch rotary reactor and is mostly energy self-sufficient. TDP's proprietary automation system allows it to have better control of the process parameters assuring consistency of its production yields. The results are recycled resources that have higher commercial value and readily accepted by industry.

TDP Turnkey Facilities' Production Capacity:

Production Capacity	
Tire waste	Per reactor
Per batch	7.5 tons
Per day	22.5 tons
Per year	7,500 tons

TDP Turnkey Facilities' Production Yields:

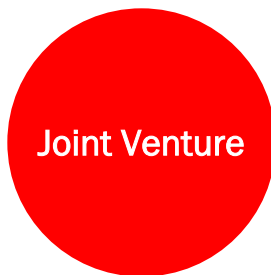
Yearly Production Yields From Tire Waste		
Output	% of batch	Per reactor
Carbon Black	41.4	2,346 tons
Oil and derived products Combustible (17.8%), Solvents (14.2%), Lubricants (10.6%), Bitumen & Asphaltene (4.7%)	47.3	21,776 barrels
Syngas	9.9	562 tons
Water	1.3	75 tons
Steel	*	1,238 tons
Fiber	*	600 tons

* Extracted by shredding before TDP processing

Future Expansion



Sale



Joint Venture



Own & Operate

Strategy

Our strategy is to become a major global manufacturer, vendor and operator of TDP turnkey facilities, specializing in the processing of hydrocarbon waste.

Clients for TDP turnkey facilities will come from the public and private sectors, consisting of industry groups, such as municipal waste facilities, landfill operators, waste processors, recyclers, entrepreneurs and manufacturers, through the Extended Producer Responsibility (EPR) programs.

Ecolomondo markets its TDP turnkey facilities by selling them to third parties, building and operating corporately-owned facilities and through joint venture partnerships.

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