

EcoWorth Tech (EWT) is an award-winning CleanTech start-up company in the water remediation and waste management space. EWT provides **breakthrough solutions for the removal and recuperation of organic contaminants** from wastewater. The technology integrates seamlessly into the latest water remediation processes and uses biomass waste for the production of the **carbon fiber aerogel technology** providing additional environmental benefits and **waste-to-worth** opportunities.

WHAT IS CARBON FIBRE AEROGEL?

CARBON FIBRE AEROGEL IS A GAME-CHANGING, ENVIRONMENTALLY FRIENDLY TECHNOLOGY FOR REMOVING LIQUID ORGANIC CONTAMINANTS FROM WASTEWATER.



Carbon Fibre Aerogel (CFA) is a highly absorbent material that is safe, natural, and recyclable. CFA is able to absorb a wide variety of organic material from wastewater. It can be made from a variety of cellulose-based material, such as cotton or waste paper.

Our patented process heats the feedstock to very high temperatures in controlled conditions. CFA is then applied by incorporating the material into industrial-grade cartridges and used as filters. CFA can be regenerated, which allows customers to reuse CFA cartridges several times before recycling them.

With these innovative filters, wastewater is transformed from waste into water that can be reused or released into the environment safely, while sometimes offering opportunities to monetise the materials recuperated in the process, like biofuels.

WHAT ARE THE BENEFITS?

ULTRA-EFFICIENT		ENVIRONMENTALLY FRIENDLY	
 <p>Absorbs contaminants up to 190 times its own weight across a broad range of organic materials</p>	 <p>Highly effective at removing organic elements such as oil, fats, solvents & grease</p>	 <p>Removes up to 99% of waste organics from water streams, meeting environmental release limits</p>	 <p>Made from safe, natural, recyclable materials, using a non-toxic production process</p>
COST EFFECTIVE		REUSABLE	
 <p>Up to 20 times cheaper than other low-cost alternatives in use today</p>	 <p>CFA can be made using locally available feedstock, eliminating the need for transport</p>	 <p>More cost effective than treating wastewater via a third-party</p>	 <p>Waste materials absorbed can be squeezed out of CFA filters, allowing CFA to be reused multiple times</p>
 <p>Recuperates organics from wastewater for monetisation in secondary markets</p>	 <p>Easily implemented into existing water treatment systems</p>	 <p>CFA filters are fire & flame resistant so absorbed materials can be burned for fuel, allowing CFA to be reused or repurposed</p>	

EWT Application Areas



Oil and Gas Industry

- Recovery of oil from oil refinery process stream
- CFA used for oil removal from sour water strippers without altering pH



Maritime Wastewater Treatment

- CFA aids in removing insoluble organics from: Bilge water, Tanker washing and spill remediation in harbour/ports



Construction Industry

- CFA as a sustainable additive for asphalt and sand
- CFA mixed cement has increase compressive strength and more watertight



Textile Industry

- Production and processing of cotton is water intensive
- Cotton used to create CFA
- CFA treat wastewater
- Treated water re-used for agriculture



Waste Conversion

- Waste materials such as paper used as feedstocks
- No chemicals used to produce CFA
- Exhausted CFA up-cycled as biochar for agriculture



Cosmetics Industry

- CFA formulated into beauty products
- Absorb and remove excess skin oils, pollutants, toxin dirt etc
- Serve as neutral carbon carrier polymer for active ingredients



Industrial Wastewater Treatment

- Reduction of organic contaminants in wastewater
- Recuperation of valuable organics



Food Waste Recycling

- CFA used to separate oil from food wastes
- Recovered oil used as biofuel

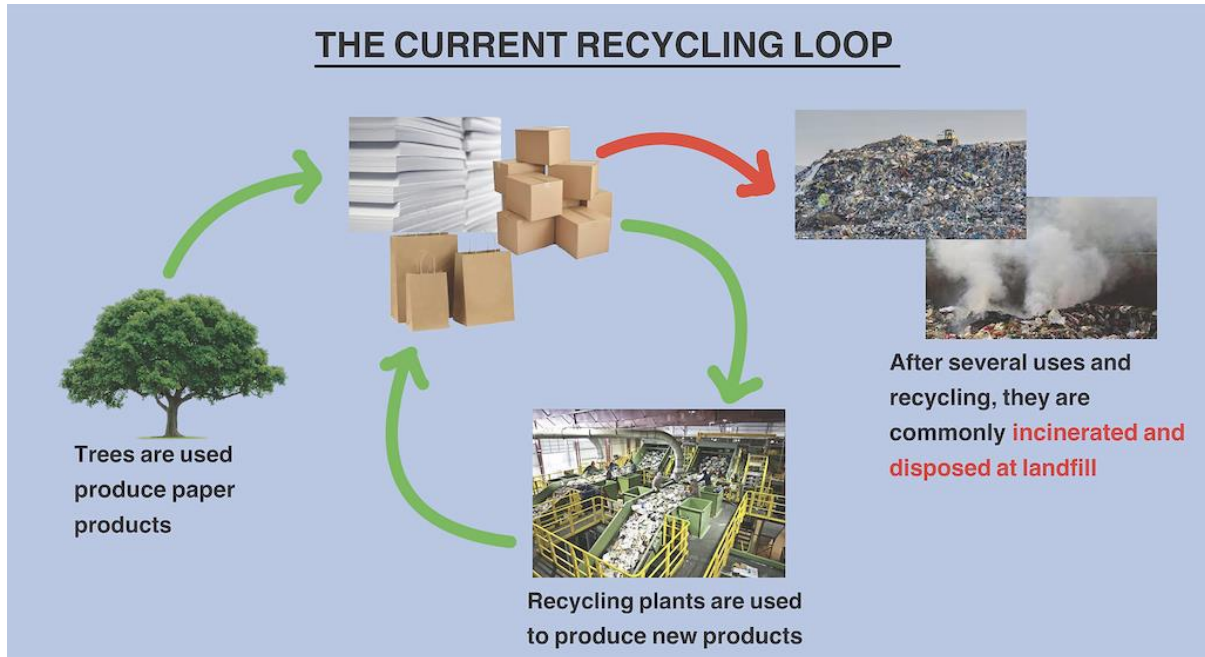


Air Filtration Industry

- CFA as air filter to absorb oil in the air
- Applicable for kitchen exhaust hood

For more information please reach out to CEO Andre Stolz (andre.stolz@ecoworth-tech.com). More news on our website www.ecoworth-tech.com

THE CURRENT RECYCLING LOOP



WHAT WE CAN DO

