

HYERA INC.

TARGETED ACTIVATED CARBON

CAPABILITY STATEMENT

INNOVATIVE CARBONS FOR A GREENER PLANET

Overview

Hyera Inc. is a U.S.-based manufacturer of premium activated carbon solutions, engineered specifically for advanced water treatment applications. Our American Engineered Carbon (AEC) brand delivers high-performance, sustainable purification technologies that help municipalities, water authorities, engineering consultants, and infrastructure contractors address complex challenges—such as PFAS remediation, microplastics removal, and industrial wastewater treatment—while meeting ESG and regulatory goals.

Core Competencies

- Precision-engineered activated carbon for drinking water and wastewater treatment
- Specialized PFAS and emerging contaminant adsorption
- AI-optimized, low-emission manufacturing using agricultural by-products
- Tailored contaminant removal for municipal and industrial applications
- Technical consulting and formulation customization

Technological Advantage

Hyera's proprietary AI-augmented production platform transforms agricultural waste into advanced carbon materials, using real-time sensor feedback and adaptive process control. This enables:

- Consistent pore structure and contaminant removal efficacy
- Targeted contaminant removal
- Reduced operational costs and environmental impact

Our materials are independently validated for performance criteria including:

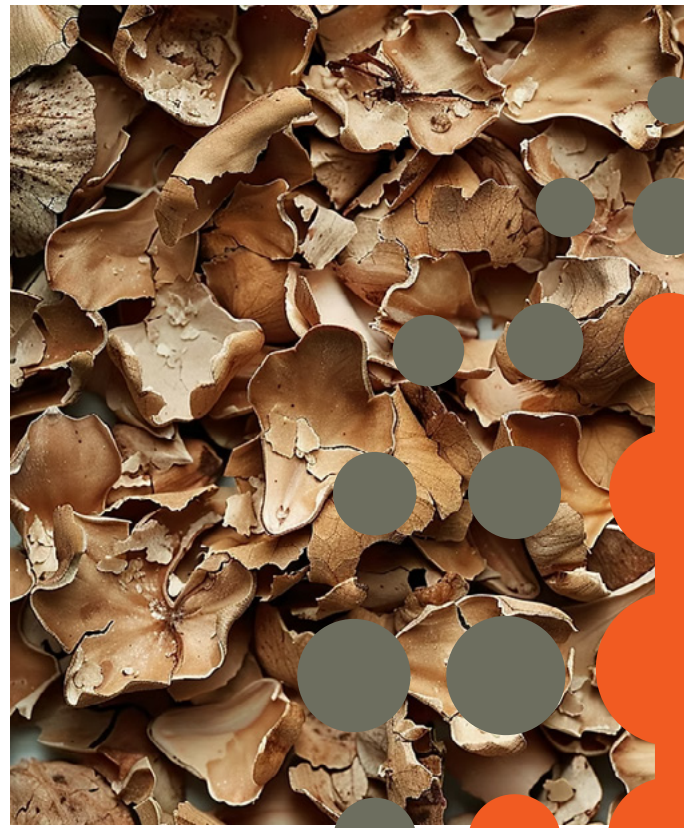
- BET surface area
- Ash content and speciation
- Micropore, mesopore, and macropore distribution and adsorption capacity

Environmental Differentiation

Our sustainable production model repurposes waste biomass—such as almond, walnut, and hazelnut shells—diverting agricultural waste from landfill while sequestering carbon through thermal processing. The result: a significantly lower carbon footprint compared to coal- or coconut-based alternatives.

Additional sustainability benefits include:

- Reduction of petroleum reliance through co-products
- Alignment with municipal and industrial ESG targets
- U.S.-based sourcing to mitigate supply chain and tariff risks



Primary Applications

Hyera's American Engineered Carbon is designed for:

- Municipal Drinking Water - PFAS, disinfection byproducts, taste/odor compounds
- Wastewater Treatment - organics, trace contaminants, solids reduction
- Groundwater Remediation - industrial solvents, legacy pollutants
- Industrial Process Water - manufacturing effluent, rinse water recovery
- Emerging Contaminants – microplastics, endocrine-disrupting compounds

Differentiators

- U.S.-engineered and manufactured for tariff-proof supply and local compliance
- First-in-class use of sustainable biomass as feedstock
- Proven performance in PFAS and high-contaminant environments
- Transparent testing and third-party quality validation
- Alignment with public and private sustainability frameworks

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