PFAS-T DESTROYERS

Destroying PFAS, Protecting America

United States • Small-Scale to Regional Growth

Company Introduction 2025

The Problem: PFAS Are Toxic, Persistent, and Poorly Managed by Conventional Systems

PFAS Scale of Impact

PFAS contamination in 2,800+ U.S. communities across 50 states

PFAS Sources

AFFF firefighting foams, industrial effluents, landfill leachate, wastewater & compost

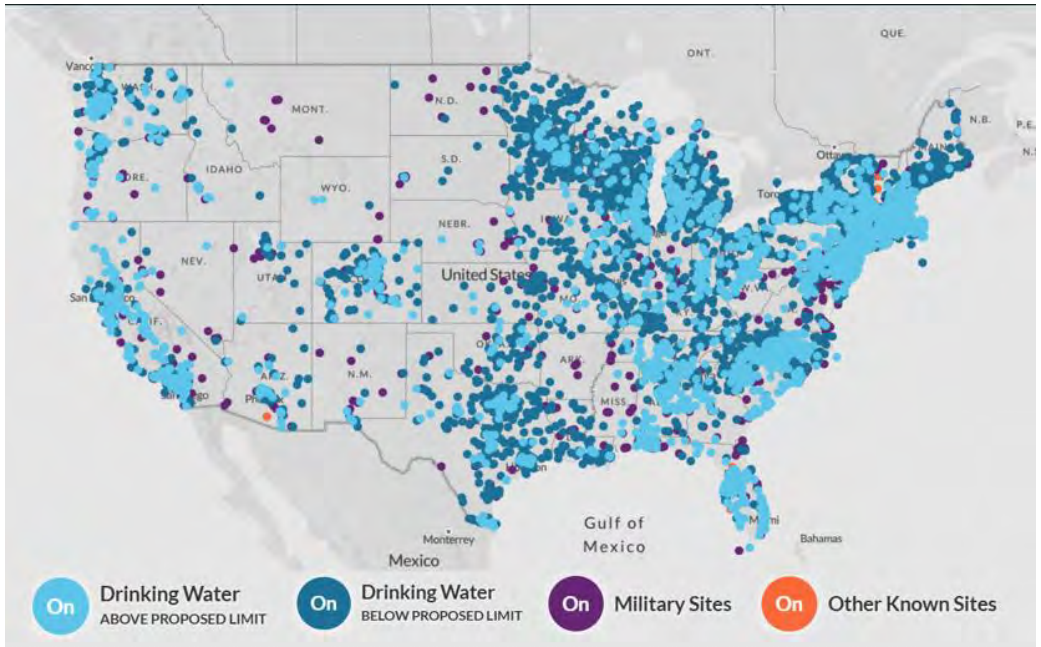
PFAS Health Impacts

+42% kidney cancer risk, 2x higher rate of testicular cancer, 40-60% higher chance of infertility & 50% lower antibody response to vaccines in children

Financial Reality

Creation cost $50-$1,500 per pound, Destruction costs $0.5M–$34M pound → global cleanup exceeds world GDP

PFAS CONTAMINATION IN THE U.S. (JUNE 10, 2025)



Sources: EWG (2023, 2025); DoD (2024); NCI (2022); ATSDR (2021); MPCA (2021); Cousins et al., ESPI (2020).

Complexity of the PFAS Problem: Need for a Full-Spectrum, Multi-Technology Solution



Scope of Contamination

01

Over 6,000 known PFAS compounds detected in drinking water, soil, air, and waste streams across all 50 U.S. states.

Persistence & Toxicity

02

PFAS resist natural degradation for centuries, bioaccumulate in humans, and are linked to cancer, immune suppression, and developmental harm

Regulatory Pressure

03

New EPA MCLs for PFOA/PFOS set at 4 ppt, with health goals at zero ppt, forcing rapid compliance timelines for utilities and industry.

Detection Challenge

04

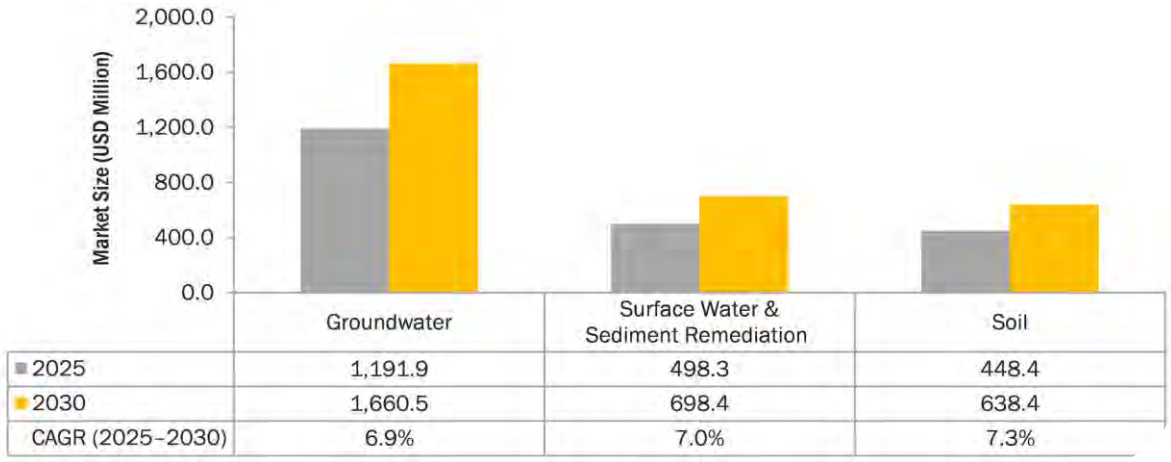
Detecting 1 ppt PFAS is like finding one second in 31,000 years — requiring highly advanced monitoring and treatment technology.

Sources: OECD (2018); EPA (2022, 2024); ATSDR (2021); Sunderland et al., EHP (2019); Cousins et al., ESPI (2020).

PFAS-T Destroyers: Integrated Destruction Technologies

We partner with the most effective PFAS destruction technology developers and bring them to market as integrated, scalable, and AI-optimized treatment trains

GROUNDWATER ENVIRONMENTAL MEDIUM TYPE TO LEAD PFAS FILTRATION MARKET BETWEEN 2025 AND 2030



	Groundwater	Surface Water & Sediment Remediation	Soil
2025	1,191.9	498.3	448.4
2030	1,660.5	698.4	638.4
CAGR (2025–2030)	6.9%	7.0%	7.3%

01 **Supercritical Water Oxidation**

02 **Electrochemical Oxidation (ECO)**

03 **Plasma Destruction**

04 **Advanced Reduction & Sonolysis**

05 **Hydrothermal Alkaline Treatment**

06 **AI Optimization via AITOE™**

Introducing AITOE™: AI-Powered Treatment Optimization Engine

AITOE™ (Artificial Intelligence Treatment Optimization Engine) is our proprietary artificial intelligence layer that continuously improves PFAS destruction outcomes:

01

Real-time tuning of system parameters (temp, pressure, dose)

02

Waste stream characterization and automated routing

03

Predictive maintenance and system lifespan extension → lower OPEX

04

EPA-aligned automated compliance reporting

Use Cases & Deployment Models: Where We Operate

Military Installations & Airports

Targeting AFFF contamination using mobile SCWO + ECO units

Industrial Facilities

Semiconductor, chemical, metal finishing, onsite destruction of PFAS waste streams

Municipal Water & Wastewater

Integrating treatment trains with GAC/RO + destruction tech for utilities

R&D & Government

Validation and performance testing in partnership with federal and academic stakeholders



Market Drivers & Timing: Why the Moment to Act Is Now

Addressable market

01

$10B+ U.S. federal cleanup budget (BIL, EPA EC Grant, DWSRF/CWSRF)

Growth potential

02

Growing demand from municipalities, landfills, and industry. Small communities eligible for 100% remediation funding

Market size

03

DoD sites: 700+ with PFAS contamination & $31B in remediation backlog

Time of Entry

04

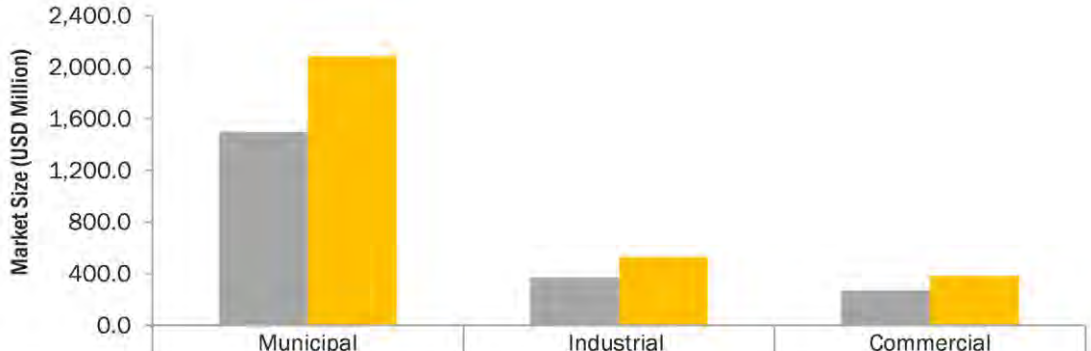
Heightened public scrutiny and legal pressure. Dangers to Americans' health & rising cost of insurance

Sources: EPA (2024); DoD (2024); BIL, EPA EC Grant, DWSRF/CWSRF program documents.

Licensing, Integration, and Solutions-as-a-Service

- **Technology Licensing** — Exclusive or strategic rights to deploy destruction tech
- **Consulting, Integration & Engineering** — Custom “treatment train” design
- **Mobile & Onsite Deployment** — Containerized solutions at point-of-contamination
- **O&M + AI Platform** — Recurring revenue via AITOE™, support, reagents, monitoring
- **Pilot Testing & Validation** — Paid performance pilots for government/industry clients

MUNICIPAL TO HOLD LARGEST MARKET SHARE BETWEEN 2025 AND 2030



	Municipal	Industrial	Commercial
2025	1,497.5	370.9	270.1
2030	2,083.5	529.9	383.9
CAGR (2025–2030)	6.8%	7.4%	7.3%

Deployment Model: Roadmap to National Deployment

PHASE 1 (0-12 Months)	PHASE 2 (12-24 Months)	PHASE 3 (24+ Months)
2–3 rural utility pilots + military site	5–10 mid-size municipal/industrial clients	Regional/national rollout, licensing, and Solutions-as-a-Service O&M

Why PFAS-T Destroyers?

What Sets Us Apart: Key Advantages Driving Our Success

01

Multi-platform destruction technologies (not just removal)

02

Proprietary AI system (AITOE™) for precision, compliance, and optimization

03

Scalable, modular delivery - from R&D to full-scale rollout

04

Scientific rigor + market readiness

05

Deep alignment with federal regulatory frameworks

06

Partnership with Alpha Water & Power, a national leader in water solutions

PFAS-T DESTROYERS

Let's discuss how you can be part of our journey! Contact us today.

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