



2026

Advancing Air, Water & PFAS Treatment

Specialists in complex air treatment,
water purification and PFAS solutions

 **Puragen**

Activated Carbon Evolution



Get in touch

info@puragen.com



About us

Puragen is a global leader in high-performance activated carbon technologies, supporting air, water, biogas and industrial applications. Puragen brings together deep scientific expertise with comprehensive service capabilities to address purification challenges. With major operational hubs in the UK, US, France, Spain and the Netherlands, we support customers at every stage of their filtration journey, ensuring reliability, regulatory compliance and operational efficiency.

Removal and Permanent Destruction of PFAS

Puragen delivers award-winning technology for the detection, capture, and permanent destruction of PFAS, including PFOS, PFOA, and other persistent organic pollutants (POPs).

Our FiltraPure® activated carbon range features a range of carbons engineered specifically for the removal of most PFAS group chemicals and is effective for both short and long-chain compounds. Puragen's REACT-Sys® technology then delivers a complete molecular breakdown of PFAS, enabling sustainable, reliable, and permanent destruction. Spent carbon is safely recycled for reuse, eliminating the need for landfill or hazardous incineration.

Collaborative partnerships at the core

At the centre of our strategy is a commitment to longterm, collaborative partnerships. We work closely with OEMs, utilities, industrial operators and environmental service providers to co-develop tailored activated carbon solutions that meet evolving regulatory requirements and performance expectations. This partnership model is underpinned by a robust technical foundation: Puragen's award-winning chemists and engineers deliver advanced analytical support and application-specific design, ensuring every customer receives the optimal carbon grade and system configuration for their unique process demands.

Puragen's capabilities span the full lifecycle of activated carbon. We supply a broad portfolio of activated carbon products across a range of applications, from PFAS removal in municipal and industrial water treatment to H₂S and VOC mitigation in biogas upgrading. Puragen also operates one of the largest mobile filter rental fleets in Europe, offering scalable plug-and-play filtration units that minimise downtime and eliminate on-site carbon handling for customers requiring agile, temporary or long-term solutions.

Sustainability at the heart of our operations

A defining element of our value proposition is its closed-loop sustainability model. We operate one of Europe's most advanced thermal reactivation networks, allowing spent activated carbon to be safely recycled and reused. With dedicated "green," "amber" and high-sulfur reactivation lines, Puragen manages a wide variety of industrial, environmental and potable-water carbons while delivering over a carbon footprint reduction in excess of 90%, compared to the production, use and disposal of virgin activated carbons.

Integrated services for reliable performance

Beyond reactivation, we provide integrated logistics, full site services, and complete maintenance and optimisation support for fixed filter installations. Our in-house engineering teams design, manufacture and install filtration systems, while our quality, safety and compliance operations uphold ISO 9001, ISO 14001 and ISO 45001 standards across the business. This ensures consistent quality, environmental responsibility and operational safety throughout every deployment.

Delivering end-to-end purification solutions

From VOC and odour control in air treatment, to PFAS, dissolved organics and disinfection by-products in water purification, to protecting renewable energy assets in biogas and biomethane production, Puragen delivers proven, end-to-end purification solutions. Combining scientific excellence with innovative carbon engineering, Puragen stands as a trusted longterm partner for delivering cleaner, safer and more sustainable outcomes for our customers.

Your Trusted Purification Partner



Air Treatment

Control VOCs, sulfur compounds (including H₂S), odours, mercury and complex industrial emissions with engineered activated carbon solutions, designed for demanding operating environments.



PFAS and POPs

End-to-end PFAS treatment for drinking water, wastewater, groundwater and air emissions, delivered through our proven Search - Capture - Destroy approach.



Biogas & Biomethane

Specialist purification solutions that remove H₂S, siloxanes and other VOCs while supporting reliable renewable energy production and biomethane upgrading.



Complete Lifecycle Solutions

From process design through installation, media management, monitoring, reactivation and replacement, Puragen provides end-to-end services for your entire treatment lifecycle.



Award-Winning Reactivation

One of Europe's most advanced closed-loop carbon reactivation networks, restoring spent activated carbon for reuse while reducing lifecycle CO₂ emissions by over 90% compared with virgin carbon.



Technical Expertise & Innovation

Continuous investment in technology, engineering and technical expertise to help customers stay ahead of evolving regulations, emerging contaminants and operational challenges.

Air Treatment Solutions

Air emissions are becoming one of industry's greatest environmental compliance challenges. Whether treating process emissions, odour, flue gases or renewable energy streams, operators must manage increasingly complex contaminant mixtures while complying with ever more stringent emission limits.

Puragen designs and delivers complete air treatment solutions tailored to each application. Combining engineered filtration systems with advanced activated carbon technologies and specialist technical expertise, we remove complex industrial contaminants including VOCs, BTEX compounds, solvents, hydrogen sulphide (H₂S), siloxanes, PFAS, ammonia, mercury and formaldehyde, while helping customers achieve reliable compliance and long-term operational performance.



Industrial Air Emissions

- VOC & Odour
- Organic solvents
- Chemical manufacturing
- Pharmaceutical production
- Compliance with WGC BAT Conclusions and IED 2.0



PFAS Emissions Control

- Gaseous PFAS capture
- Fluorochemical manufacturing
- Industrial process emissions
- Engineered adsorption systems



Renewable Energy

- Hydrogen sulfide (H₂S)
- Siloxanes
- VOC removal
- Biomethane upgrading
- CHP engine protection

[View Case Studies](#)

PFAS Treatment Solutions

PFAS is one of the world's fastest-evolving environmental challenges, driving increasingly stringent regulations across water, wastewater and industrial emissions. Puragen delivers complete, end-to-end PFAS treatment solutions through our proven and global award-winning Search - Capture - Destroy approach, supporting organisations throughout the entire treatment lifecycle.



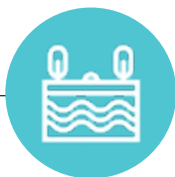
Drinking Water

Protect public health through high-performance activated carbon systems designed to consistently achieve regulatory compliance.



Wastewater

Reduce PFAS concentrations before discharge while supporting environmental permitting requirements.



Groundwater & Environmental Remediation

Deploy rapidly through mobile treatment systems for contaminated sites.



Air Emissions

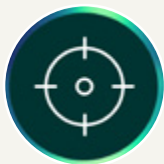
Capture gaseous PFAS from industrial processes using engineered activated carbon solutions developed specifically for fluorochemical emissions.

Conventional PFAS treatment often captures contaminants without destroying them, transferring the problem to hazardous landfill or disposal. Puragen's Search-Capture-Destroy approach provides a complete lifecycle solution, combining high-performance PFAS adsorption with advanced reactivation technologies that permanently destroy and mineralise PFAS while enabling activated carbon to be safely reused. This closed-loop approach reduces waste, lowers environmental impact and supports long-term regulatory compliance.



Our Solution

View Case Studies



Search

Understanding the PFAS challenge is the first step towards effective treatment

- Advanced laboratory analysis to identify and quantify PFAS compounds
- Expert media selection based on water chemistry, air emission profiles and treatment objectives



Capture

Engineered solutions designed to maximise PFAS removal performance

- High-performance activated carbons developed specifically for PFAS treatment
- Optimised surface chemistry for enhanced adsorption and extended media life
- Engineered filtration systems designed for maximum efficiency and operational reliability
- Proven performance across drinking water, wastewater and industrial applications

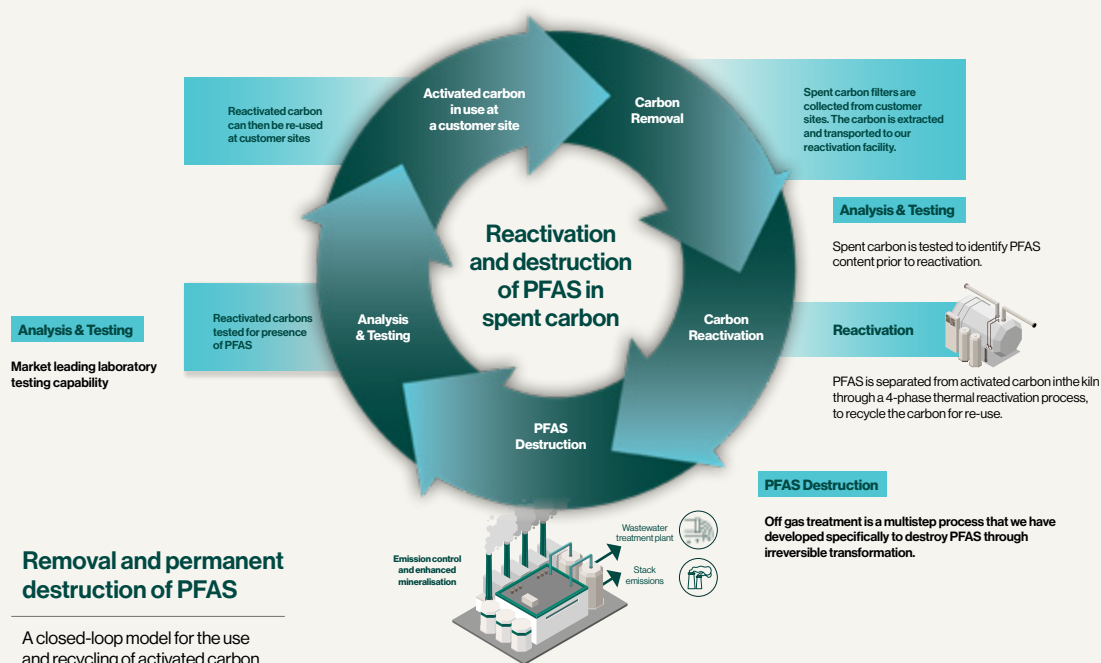


Destroy

Closing the loop through permanent PFAS destruction

- Advanced thermal reactivation that safely destroys and mineralises PFAS while restoring activated carbon for reuse
- Multi-stage treatment process incorporating rotary kilns, thermal oxidation and emission control
- Independently verified destruction with no detectable PFAS emissions
- A circular approach that reduces waste, lowers lifecycle costs and supports long-term sustainability

Puragen delivers the complete PFAS solution, from contaminant identification and treatment, through to media management, destruction and carbon reuse, providing a sustainable approach to long-term PFAS management. Our commitment to continuous innovation, supported by ongoing R&D, drives the development of high performance PFAS treatment technologies.



Biogas & Biomethane

Biomethane & Renewable Energy Solutions

As renewable energy production continues to expand, maintaining gas quality and protecting critical infrastructure has become increasingly important. Puragen delivers specialist purification solutions that remove key contaminants from biogas and biomethane, helping operators maximise renewable gas production, improve plant reliability and meet grid injection specifications.



Hydrogen Sulfide

Protect CHP engines and upgrading equipment by removing corrosive hydrogen sulfide, extending asset life and reducing maintenance costs and protecting upgrading equipment.



Siloxanes

Protects engines, turbines and downstream equipment by eliminating a range of siloxanes, preventing silica related damage, extending asset life and reducing maintenance costs.



VOC Removal

Remove other volatile organic compounds that affect gas quality, equipment performance and environmental compliance.



Biomethane Upgrading

Support efficient upgrading processes to produce high-quality, grid-compliant biomethane through engineered filtration systems and application-specific activated carbon technologies.



High-Sulfur Spent Carbon Reactivation

Puragen operates one of the few reactivation processes capable of safely treating activated carbon with sulfur loadings above 30%. By restoring spent carbon for reuse, we eliminate the need for hazardous disposal, reduce lifecycle emissions and support a truly circular approach to renewable gas purification.



Circular Carbon Management

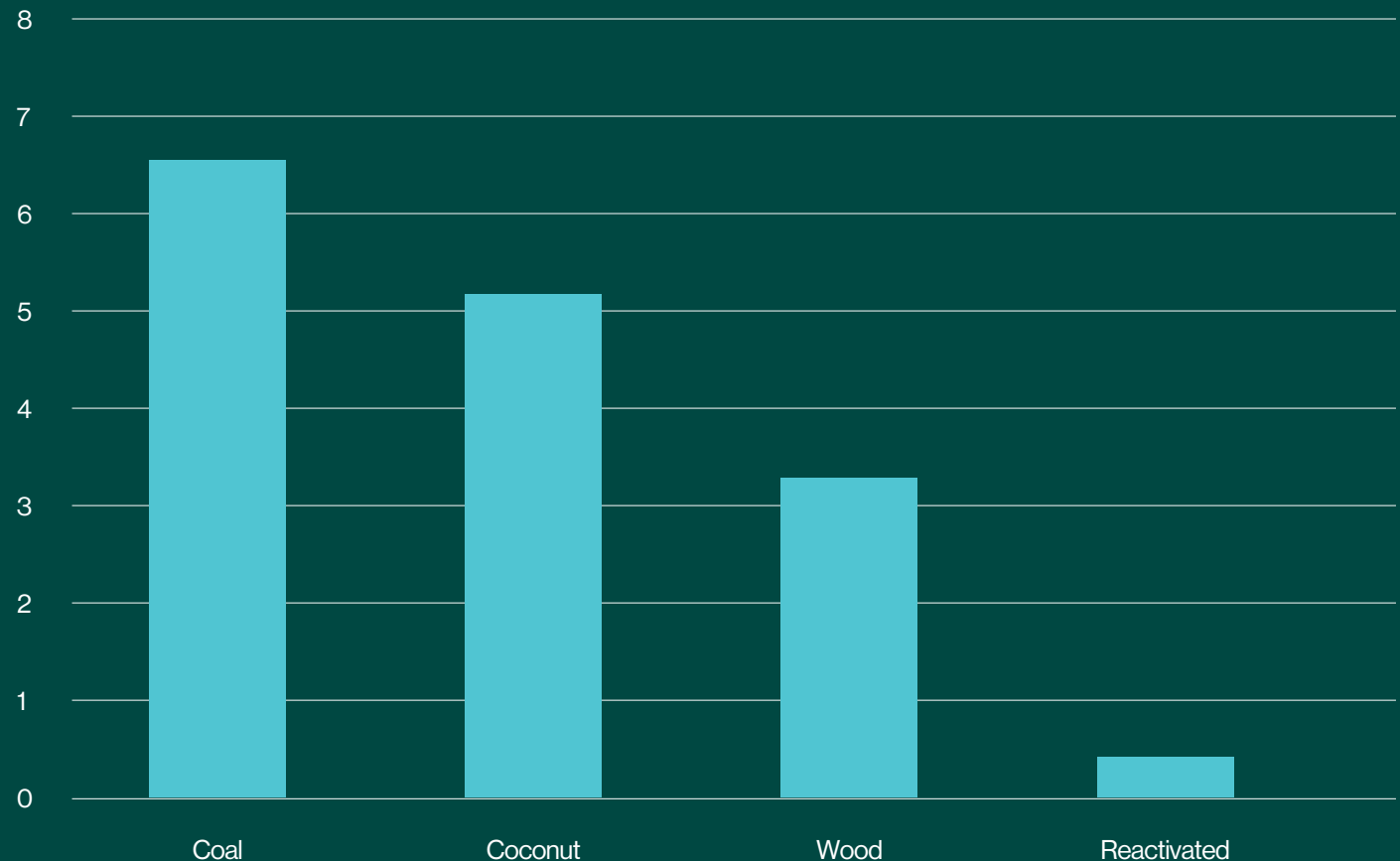
Puragen's reactivation capability enables spent activated carbon to be recovered, recycled and returned to service, dramatically reducing waste generation and lifecycle emissions.

Our Commitment

- Promote activated carbons derived from sustainable raw materials such as coconut shell and wood, in preference to coal-based carbons
- Circular approach: managing spent activated carbon through reactivation rather than disposal
- Actively encourage the use of reactivated carbon grades, delivering a significant reduction in CO₂ emissions
- Support sustainability through zero-landfill packaging practices
- Utilise closed-loop water reuse systems

Reduction in eCO₂ from Reactivation*

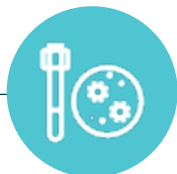
MT eCO₂ per MT activated carbon origin



*verses the use and disposal of virgin grades

Technical Expertise & Innovation

Every treatment challenge is different. Puragen works in partnership with operators to develop purification solutions tailored to each application, operational requirement and compliance objective.



Carbon Selection

Application-specific media selection based on contaminant chemistry, operating conditions and treatment performance requirements.



Laboratory Testing

Advanced analytical capabilities to characterise contaminants, evaluate treatment performance and optimise media selection.



Process & System Design

Engineering expertise, process modelling and CFD analysis to optimise system design, flow distribution and adsorption performance.



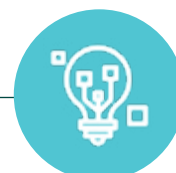
Pilot Trials

On-site pilot testing to validate treatment performance, reduce project risk and optimise full-scale system design.



Mobile Treatment Solutions

Rapid deployment of temporary filtration systems to support trials, emergency response, maintenance shutdowns and long-term treatment projects.



Performance Optimisation

Monitoring, technical support and media management to maximise adsorption efficiency, extend carbon life and minimise operational costs.



Regulatory Support

Technical guidance to help customers meet evolving environmental regulations, permitting requirements and compliance obligations.

Get in touch →

Talk to a purification
expert today

info@puragen.com

puragen.com

The Puragen logo is centered over a photograph of a wastewater treatment facility. The photo shows a long, straight channel of water with a series of metal grates or screens across it, creating a series of small, cascading waterfalls. In the background, there are industrial structures, including a large white cylindrical tank and a tall metal tower, under a sky with soft, warm light from a low sun.

 **Puragen**



Talk to a purification expert today

Get in touch info@puragen.com