

## Optimize Your Water Treatment Costs Using Birchtech's Carbon Rejuvenation™ Services

Birchtech's state-of-the-art Carbon Design Centers **combine advanced expertise in activated carbon** and applied research to deliver a comprehensive and innovative approach to remove contaminants, including PFAS, from drinking or wastewater.



Our unique **Carbon Rejuvenation** Services involve **modification of activated carbon** and rigorous comparison of its performance to other carbon including activation, reactivation, and regeneration. Using insights from our detailed analysis, we provide expert recommendations for the **most cost-effective and efficient water treatment solutions**.

## Carbon Rejuvenation: A Sustainable Solution for Water Treatment

### Why Choose Birchtech's Carbon Rejuvenation Services?

- Our Carbon Rejuvenation Services use advanced processes that restores and enhances spent carbon, enabling continued adsorption performance while reducing reliance on virgin raw materials.
- As a **cost-effective alternative to virgin carbon**, Our Carbon Rejuvenation Services reduce new carbon production, conserving resources and lowering lifecycle costs.
- When applied to **spent granular activated carbon (GAC)**, the used media is restored for reuse, reducing reliance on virgin raw materials while lowering total lifecycle costs for utilities.
- Carbon Rejuvenation approach **destroy PFAS compounds adsorbed** in spent GAC, **eliminating the liabilities associated with disposal**.

### Our Tailored Solutions

- Performance Testing**  
Compare the efficiency of carbon enhanced by our Carbon Rejuvenation Services versus virgin carbon with precision, enabling confident decision-making for your water treatment processes.
- Custom Formula Development**  
Collaborate with our experts to refine the optimal blend of enhanced/restored carbon and virgin carbon, addressing the specific needs of your water utility or system.
- Data-Driven Insights**  
Our comprehensive analysis helps identify cost-saving opportunities while ensuring regulatory compliance and sustainability.

### How It Works

- Our Carbon Rejuvenation Services restore and/or enhance activated carbon to more affordably and efficiently remove and destroy multiple contaminants, including PFAS and heavy metals.** Send us a sample of your spent carbon, and we will process it using our custom-designed carbon rejuvenation platform.
- Accurate analysis and comparison of activated carbons, including virgin, spent, and traditionally reactivated, both pre- and post-treatment of our Carbon Rejuvenation Services equips utilities with a fully optimized approach to address contaminant removal.** We also evaluate and compare the PFAS performance of rejuvenated GAC against virgin carbon and, if applicable, other virgin GAC products.
- We Provide Expert Recommendations on the Optimal Blend for PFAS Compliance Contaminant Removal.** Using performance data and in-depth expert analysis, our Carbon Rejuvenation Services provides the optimal blend of various media to help achieve the most cost-effective compliance solution for PFAS or other regulated contaminants.

### Contact Us Today

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