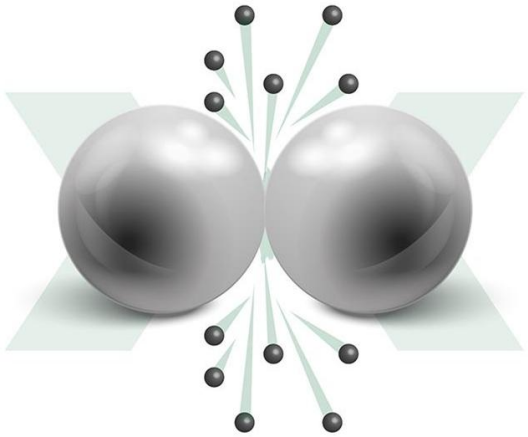

# Harnessing Mechanochemistry for Complex Waste Challenges Globally

June 2025

# *Solution Focused*

# *Technology Supplier*


Edl


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6

# Project Overview

## Persistent Organic Pollutants

Destroying hazardous organics listed on the Stockholm Convention.

## PFAS

Demonstrating the capability of mechanochemistry to destroy PFAS in soil and obsolete products.

## Asbestos

Development of EDL's technology to recycle asbestos containing materials.

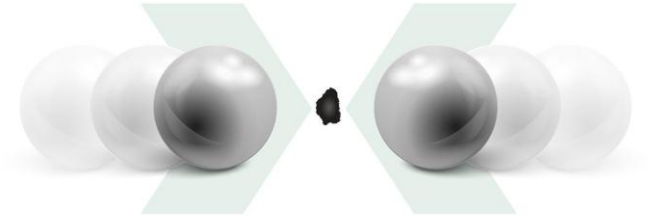
## Materials Processing

Transforming low value materials, and even wastes, into high value powdered products.

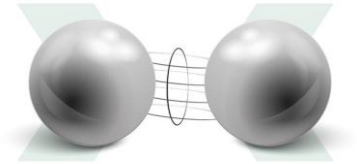
## Nuclear Waste

Development of mechanochemical solutions for nuclear waste, including liquid organics, asbestos, and sorbents.

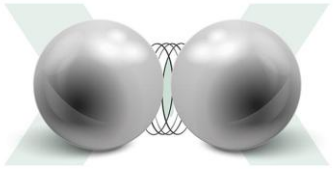
# Technology Capabilities



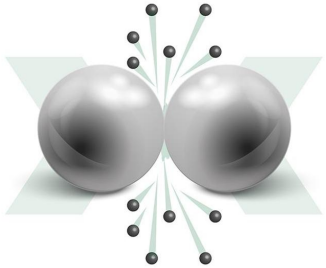
*High Velocity Impact*



*Elastic Deformations*



*Plastic Deformations*



*Fracture*

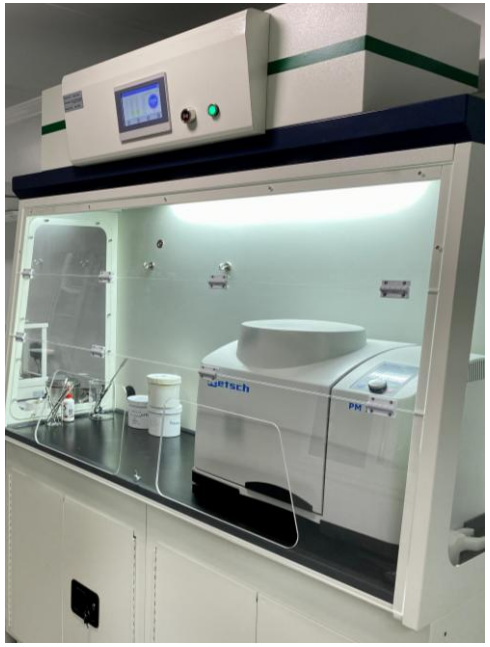
Mechanochemical Destruction (MCD), as a hazardous waste treatment process.

- Emerging solution for multicomponent wastes.
- A *Green Chemistry* approach.
- Non-thermal, solid-state, solvent-free.
- Scalable.
- Modular.

Requires progressive validation for emerging challenges.

# Scale Up Capability

## Benchtop



Efficacy, kinetics.

Technology capability.

## Intermediate

Scalability, 10-50 kg.

Efficacy.

## Demonstration

Optimisation at continuous flow, 0.5-2.0 t/h.

*Deployable System*

# PFAS Destruction

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# POPs Destruction

# Asbestos Destruction

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# Nuclear Waste Treatment

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# Mussel Shell Valorisation

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# Operational Plants

# *Next Steps*

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