



ETERSOLIS

Office of the CSO



Issue 001

June 2026

Introducing EterSolis

Recover Value. Advance Sustainability.
Build Resilience.

A public introduction to EterSolis —
an advanced resource recovery and
circular economy organization
focused on science, sustainability,
and practical stewardship.



Resource
Recovery



Circular
Economy



Water
Stewardship



Industrial
Innovation



Sustainability



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1/8



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Who EterSolis Is

EterSolis is an advanced resource recovery and circular economy organization focused on responsible resource stewardship, applied science, and sustainable industrial solutions.



Resource-First Thinking

Waste, water, materials, and by-products can contain environmental, economic, and operational value.



Applied Science

Evidence, characterization, and disciplined documentation matter more than slogans.



Practical Stewardship

Solutions must respect safety, law, community benefit, and commercial feasibility.



Long-Term Value

EterSolis is built to help retain value, strengthen systems, and support resilience over time.



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*Founding position: Value should **never be wasted**.*



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2/8



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Why EterSolis Exists

A linear economy cannot sustain a circular planet.

Modern society depends on water, materials, energy, infrastructure, and resilient communities. Yet enormous quantities of value are still lost through disposal, contamination, and underuse. EterSolis exists to help close that gap.



2.1B

people lacked safely managed drinking water in 2024



3.4B

people lacked safely managed sanitation in 2024



2.1B t

municipal solid waste generated in 2023



3.8B t

projected municipal solid waste generation by 2050



Key implication:

global resource pressure creates a practical need for recovery, reuse, and stronger systems thinking.



Selected public context from WHO/UNICEF and UNEP



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3/8



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What EterSolis Does

EterSolis is structured to connect science, stewardship, and practical implementation across five public-facing domains.



1. Industrial Systems

Improving process thinking, resource efficiency, and sustainability in real operations.



2. Water & Wastewater Systems

Supporting water stewardship, sanitation resilience, and public-health-aware infrastructure conversations.



3. Recyclables & Circular Materials

Helping materials stay in productive use through quality-aware circularity and responsible routing.



4. Biological Systems

Exploring safe, evidence-based value pathways for organic streams and biological recovery.



5. Business Development & Commercialisation

Connecting technical capability, partnerships, and disciplined implementation.



EterSolis is designed as a **problem-solving operating platform:** commercially practical, technically cautious, and focused on recoverable value.



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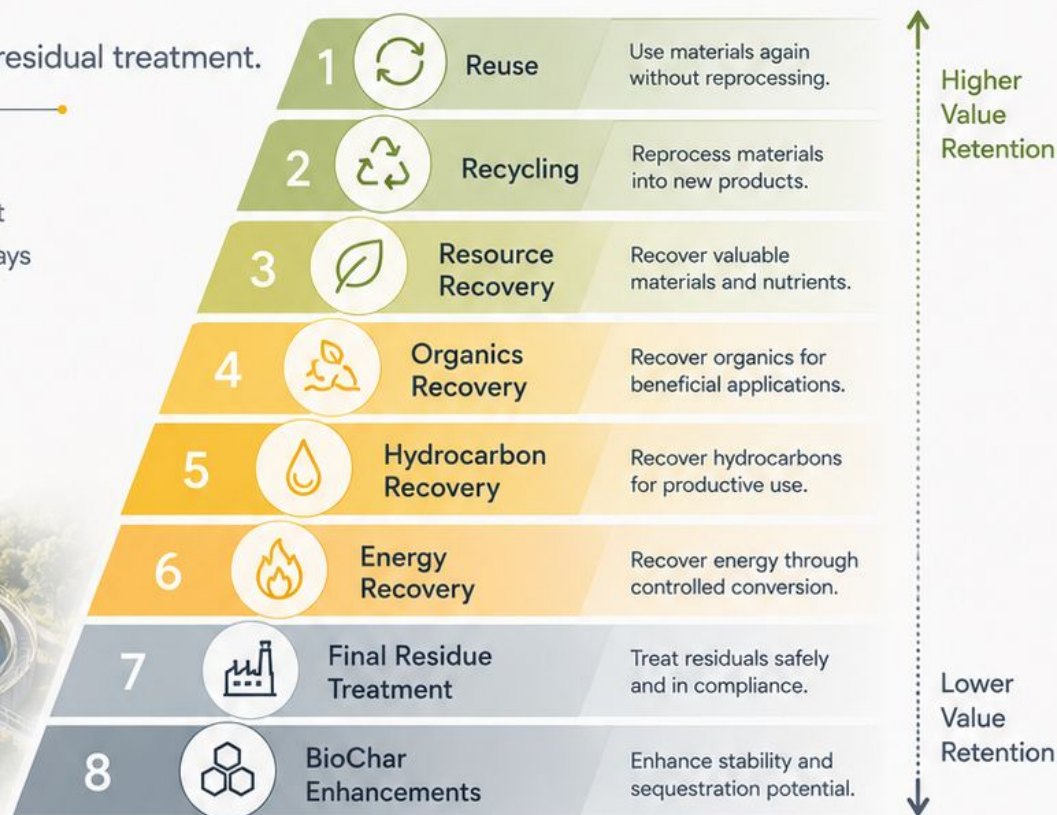
4/8



The EterSolis Resource Hierarchy

Value retention before residual treatment.

EterSolis uses a high-level prioritization framework that screens higher-value pathways before lower-value residual routes, unless safety, environmental, technical, commercial, or regulatory reasons justify exclusion.



Decision logic: reuse and material value first; lower-value treatment only when higher pathways are screened out or unsuitable.





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The EterSolis Approach

How we think before we act.

Five operating principles shape the public and internal discipline of the organization.



Science-Based

We ground decisions in credible data, evidence, and peer-reviewed knowledge.



Systems Thinking

We consider interconnections and trade-offs across people, ecosystems, and infrastructure.



Circularity

We design solutions that recover resources, minimize waste, and keep materials in use longer.



Practicality

We deliver reliable, operational solutions that work in the real world and create value.



Long-Term Stewardship

We act today for lasting impact, protecting resources for future generations.

Our process



1. Identify

Understand needs, opportunities, and context.



2. Characterize

Collect data and assess the problem.



3. Prioritize

Evaluate impacts, risks, and feasibility.



4. Design

Develop solutions that are effective, efficient, and safe.



5. Implement

Execute with rigor, in partnership and at scale.



6. Measure

Track performance and validate outcomes.



7. Improve

Learn, adapt, and drive continuous improvement.

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Recover value responsibly, explain clearly, and execute with discipline.



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6/8



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Global Alignment

Local action supporting global goals.

01



Paris Agreement

EterSolis aligns with climate-aware decision-making through resource efficiency, waste diversion, circular materials, water resilience, and sustainable industry.

02



Sustainable Development Goals

EterSolis work can support SDGs 6, 7, 9, 11, 12, 13, 14, 15, and 17 through practical and responsible implementation.

03



ESG Discipline

Environmental, social, and governance communication is strongest when it is backed by evidence, conduct, traceability, and accountable review.



Alignment does not imply endorsement, certification, or guaranteed impact.



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7/8



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A Message from the Chief Scientific Officer

“*The future belongs to organizations that recognize value where others see waste.*”

The world is entering a defining era of resource pressure, climate risk, and infrastructure demand. EterSolis was created to connect applied science, engineering, sustainability, professional documentation, and responsible commercial execution. Our mission is founded on a simple principle: value should never be wasted.

Together, we can help build systems in which resources are valued, communities are protected, and future generations inherit a stronger foundation than the one we received.

Ralston E. Lee Smith

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Chief Scientific Officer | EterSolis



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