



Certification for Responsible Chemical Recycling

Applicable to advanced, chemical, and molecular recycling



How to achieve Responsible Chemical Recycling Certification

■ General Requirements

Management system, operational permits

■ Operational Transparency

Disclosing the chain-of-custody system and mass balance attribution model used (energy use vs. material-to-material) demonstrating hard to recycle material is processed to ensure complementarity with existing recycling technologies.

■ Environmental Impacts

Measuring and tracking: energy intensity, atmospheric emissions, water withdrawal and discharges, treatment and disposal of waste, Scope 1 and Scope 2 emissions, Product Carbon Footprint, and at the Plus level, a cradle-to-gate LCA.

■ Social Impacts, Equity, and Human Rights

Making a public commitment to Human Rights; identifying stakeholders; developing and implementing: community engagement plan, community development program, workforce development plan, and an OH&S program.

Responsible Chemical Recycling Certification

This certification program brings transparency and credibility to advanced, chemical and molecular recycling. Independent, third-party certification enhances credibility, reduces reputational risk and supports customer and regulatory requirements for traceability and responsible production.

SCS Global Services Advantage

At SCS Global Services, we bring over 40 years of experience in third-party certification and sustainability assurance, helping organizations build trust and demonstrate leadership. We have played a key role in the development of standards and frameworks across industries, working closely with technical experts, stakeholders, and global initiatives to advance responsible practices.

Our team combines deep technical expertise with practical implementation knowledge, ensuring efficient, reliable certification processes tailored to complex sectors like chemical recycling. We support organizations worldwide with strong audit capabilities, responsiveness, and commitment to excellence. At SCS we stay informed of evolving requirements to provide certifications that strengthen sustainability and lead in emerging markets like advanced recycling.

Certification Levels

Certification requires core elements but recyclers can go beyond the Core certification by achieving Plus certification or any one of five Trailblazer categories.

Core

To achieve and maintain **Core** certification, the chemical recycler must meet all applicable Core requirements.

Plus

To achieve a **Plus** level of certification, the chemical recycler must meet all applicable *Core* requirements and all applicable *Plus* requirements.

Trailblazers

At any time and at any level of certification (*Core or Plus*), an entity can opt to meet **Trailblazer** requirements that allow recognition of best practices in the following categories:

- Risk Assurance
- Transparency & Disclosure
- Water Stewardship
- Zero Waste
- Social Impact

Scope & Applicability

- Voluntary certification
- Applicable to advanced, chemical, and molecular recyclers worldwide
- For any recyclers, including those handling polymers (e.g., plastics, textiles, elastomers)
- Technology agnostic, applicable to technologies such as pyrolysis, solvolysis, methanolysis, depolymerization, and gasification
- Criteria may be applicable to processing unit, site, or organization, depending on topic area and structure of the recycler (stand-alone facility vs. fully integrated)



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