Interstate Technology & Regulatory Council GREEN & SUSTAINABLE CHEMISTRY TEAM



Duration: January 2025 to December 2026

THE CURRENT ISSUE

USEPA defines green chemistry as "the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances across the life cycle of a chemical product, including its design, manufacture, use, and ultimate disposal." Sustainable chemistry builds on this by using renewable materials, maximizing efficiency, and minimizing harm to health and the environment, while promoting circularity and long-term resource use (Federal Sustainable Chemistry Strategic Plan 2024).

Together, **green** and **sustainable** chemistry offer a life-cycle approach that supports safer outcomes, builds public trust, and strengthens communities. Current policies often target individual chemicals, which can lead to regulatory burdens and fail to address toxics across the full product lifecycle. As circularity efforts grow, a more comprehensive strategy is needed—from design to end-of-life.

PROPOSED SOLUTION

This team will identify **best practices** and **case studies** in green and sustainable chemistry, aligned with ECOS Resolution 17-1: Advancing Safer Chemical Products and Processes. They will compile resources, summarize relevant regulations and programs, and **develop a toolkit** to help environmental professionals address green chemistry, materials management, and circularity.

