

For immediate release

Technic Joins Forces in Ambitious Project for Sustainable Semiconductor Manufacturing

Grenoble, France – Technic is thrilled to enhance its commitment to sustainable semiconductor manufacturing through active participation in **GENESIS** (GENerate in Europe a Sustainable Industry for Semiconductors), a ground-breaking Pan-European project coordinated by CEA Leti.

What's driving GENESIS?

The project responds to two urgent European imperatives: meeting climate commitments under the Green Deal and building a resilient chip supply chain under the European Chips Act. As semiconductors now underpin technologies from AI to energy infrastructure, their environmental footprint is rapidly growing. The GENESIS project tackles this pressing issue head-on, aiming to develop innovations spanning every stage of manufacturing—from material sourcing and emissions tracking, to waste management and raw material reuse.



Technic's role

As a key partner in the GENESIS project, Technic is contributing its expertise within the waste minimization pillar, focusing on advanced materials science and specialized chemicals. Collaborating closely with industry leaders, Technic is actively engaged in developing sustainable recycling strategies for critical solvents used in semiconductor manufacturing, especially during photolithography processes.

The initiative targets solvent waste streams that are currently incinerated for energy recovery, assessing their potential for purification and reuse. Technic is investigating innovative treatment methods, such as distillation and membrane separation technologies, to enable the efficient recovery and reintegration of these solvents into the production cycle, supporting circular economy principles in the semiconductor industry.

Additionally, within the consortium, Technic will conduct life cycle assessments (LCA) of the targeted solvents and processes to identify the most impactful environmental and resource-related criteria. This data-driven approach will guide the development of more sustainable and effective recycling solutions of present and future products.

About Technic

For over 80 years, Technic has been a global supplier of specialty chemicals, custom finishing equipment, engineered powders, and analytical control systems to the semiconductor, electronic component, printed circuit board, industrial finishing, and decorative industries.

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