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Abstract title: Open, Software-defined Automation as a Catalyst for the Sustainable Carbon Industry

Accelerating defossilization and developing circular value chains at scale have become urgent priorities to curb climate change and limit the impact on resources and the environment. All the pathways, whether from biomass, CO_2 or recycling need a strong integration across the value chain, some highly scalable solutions and deployment at speed, while minimizing risks.

Schneider Electric brings a unique blend of industrial, digital and sustainability expertise to these challenges. At the core of this expertise is a strong digital foundation that unifies energy optimization, advanced automation and next generation industrial software, seamlessly connecting equipment, processes and data across the value chain.

The presentation will highlight the role of open software-defined automation, which removes hardware dependency, embeds process knowhow, unlocks digital continuity and ensures seamless IT/OT integration, offering unmatched scalability for New Energies applications while strengthening resilience, reliability and cybersecurity across industrial operations. A mechanical and chemical recycling use case will illustrate how advanced open automation enables robust and circular value chains in this emerging industry.