

	TNChE Asia 2023 Conference " Decarbonization of Process Industry and Next-Generation Materials for Sustainability " Presenter Bio Data & Abstract	
---	--	---

Full Name : PLAIN Cécile

Organization : AXENS

Current Position : Business Development Manager – Technology
Principal Expert – Decarbonization and
Consulting Group

Working Experience : 31 years

Title of Presentation : Providing and Developing Decarbonization Solutions to
Support Industry Facing Energy Transition



Presentation Abstract :

Given the recent strong change in societal and economical context but also with new recent regulations (the Paris Agreement, CO₂ price increasing, Greenhouse House Gases quota), industrials are willing to reduce the environmental impact of their activities by improving and upgrading current asset operation. Thus, the major challenge of our industry in the incoming decades will be to reduce CO₂ emissions while remaining profitable and competitive.

The sustainable development scenario of EIA puts energy on track to meet sustainable energy objectives, with a global temperature increase of less than 2°C by 2100. To reach this target, several options are possible: improve the energy efficiency of existing assets, move to renewable energies, circular economy, fuel switch, or even carbon capture. Several options, but how to select the best and customized option? It depends strongly on climate strategy, existing assets, and the development plan of each industry. It is the role of Axens Horizon, as a consulting team, to support refiners in this challenge by developing a comprehensive and dedicated roadmap of sustainable process solutions to address this carbon reduction ambition.

Axens Horizon is a dedicated multidiscipline team with long expertise in master planning, and unique access to green technology and carbon capture expertise, a dedicated site-wide CO₂ impact tool, whose competency is to develop short, medium, and long-term solutions for decarbonization through its Decarbon'Us service. Through a holistic and proven approach, Axens Horizon is the ideal partner to support industries and develop a specific and customized decarbonization program taking into account the baseline set in Group Strategy.

Such an approach will be presented through different case studies where a decarbonization study has been conducted towards different solutions from grassroot solutions to optimization and revamp solutions of existing assets. The challenge was to assess the viability of innovative projects and solutions with the Axens Horizon partnership through market study and business model.