

Identifying opportunities to valorise CO₂ waste streams



Expertise and domain knowledge

- Industrials
- Sustainability
- Process analysis



Our clients ask:

How can we create new value from existing CO₂ waste streams while considering specific technical and commercial constraints?

The project story:

- Sagentia Innovation analysed each processing facility to understand CO₂ profiles, processing equipment and workflow, commercials etc. This served as a baseline for undertaking the waste stream valorisation work.
- Separation, capture and utilisation technologies were assessed and aligned to each target facility to identify the most applicable CO₂ technologies for value creation.
- Recommendation of the most suitable technologies considering the client's technical and commercial requirements.
- Where applicable, the impact on tax credits and penalties were assessed along with the overall commercial viability of the shortlisted valorisation opportunities.

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Results: deliverables and outcomes

Our client was provided with a report which provided a clear route to market for CO₂ valorisation. The report also outlined any risks and development hurdles which needed to be overcome for successful inception.

The client was also given a watchlist of low TRL technologies and projects.

Sagentia Innovation's recommendations are helping the client to make informed strategic decisions as they progress with their journey towards sustainable bio-processing.