

CASE STUDY 4 – CARBONX® AMINE RECOVERY & DECARBONIZATION – CONSTANȚA, ROMANIA



OVERVIEW

A European refinery sought to reduce amine losses and cut CO₂ emissions to comply with tightening EU environmental regulations. Its gas treatment unit suffered from high chemical consumption and emission inefficiency.

CHALLENGES

- High amine losses and increased OPEX
- Excess CO₂ emissions requiring corrective measures
- Pressure to align with EU ESG and Net Zero frameworks

BENEFITS

- CarbonX® modular amine recovery unit installed for process optimization
- Reduced emissions and chemical losses with rapid ROI
- Supported refinery's long-term Net Zero compliance

40% CO₂ Reduction

85% Amine Recovery Efficiency

Immediate OPEX Savings with reduced chemical loss

