

# Baker Hughes LIFESPAN program recognized as a finalist in CEPSA wePioneer contest for reducing fouling resulting in significant CO<sub>2</sub> savings

## CHALLENGES

- Reducing fouling caused by opportunity crudes
- Decreasing CO<sub>2</sub> emissions through reduced fouling and coking rates in exchangers and furnaces

## SOLUTION

- [LIFESPAN™ fouling and stability control program](#) was utilized for its:
  - Crude blending model that predicts fouling before arrival at the refinery including a database of 300+ crude oils for immediate simulation of multicomponent blend compatibility
  - Integration with linear programming for daily optimization of crude blend
  - Specific LifeSpan Concern Index (LSCI) recommendations on best crude blends to reduce fouling
  - Integration with real duty, fouling factors and NFIT calculations for better prediction

## RESULTS

**+42,000 tons**  
Of CO<sub>2</sub> saved per year

**\$5M USD**  
Per year in energy cost savings

**50%**  
Reduction in fouling caused by blending up to 10 different crude sources

**22 years**  
of successful crude preheat fouling control

**"The award recognizes projects and best practices from organizations that reduce and improve the carbon footprint of their processes, contributing to the promotion of the #energytransition."**

- **wePioneer**  
MOEVE (CEPSA) 2023 – [LinkedIn](#)



Photos of wePioneer recognition celebration at MOEVE (CEPSA) HQ offices in November 2023

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