

wood.

Technology licensor for **SYDECSM delayed coking**

Improving reliability, operability and efficiency by repurposing existing assets with sustainable solutions

70+
licensed units

150+
TerraceWallTM
cokers

65+
years globally

Legacy Foster Wheeler business



Sustainable pathways for delayed coking

Wood's selective-yield delayed coking technology (SYDECSM) is the leading method for residue upgrading for zero-fuel oil production. It provides refiners with the flexibility to utilize a variety of residues in their cokers to reduce waste and support energy transition objectives.

Fully integrated DCU + SDA

Combining SYDECSM delayed coking technology with our proven solvent de-asphalting (SDA) technology

SYDECSM Volt (needle coke production)

Repurposing fuel grade delayed coking units to produce high-value battery grade needle coke

SYDECSM Circular (co-process plastic waste)

Processing plastic waste supports future-proofing existing assets, enabling smooth transition of traditional refineries to support closing the loop on plastics

Retrofit to reduce emissions

Decarbonising existing assets:

- Renewable and biofeeds co-processing in coker
- Energy audit and energy optimisation studies
- Heat integration opportunities
- Reduce fuel gas consumption
- Saturated gas plant revamp
- Closed coke slurry system
- Operations and yield improvements
- Optimisation of water management

Digitally integrate, monitor and optimise

Digital delayed coking allows refiners to digitally integrate, monitor and optimize their coking operations – from feedstock input to product output – as well as achieve better connectivity in the dynamic relationships across the entire refinery facility and enterprise

Wood DCU retrofit solutions offer:

- High return on investment and low CAPEX revamps
- Increased product quality and annual production
- Increased liquid yields, residue conversion and refinery margins
- Monetise low value waste, maximise asset utilization and optimize tax benefits
- Enable fossil fuel reduction to support sustainable economy and produce high-value premium grade coke
- Digital solutions and technology to optimise unit operation and uncover easily achievable revenue improvements

Contact us: delayed.coking@woodplc.com

