

# Chemicals & Polymers

Delivering Predictable Results

WOOD GROUP



## Experience is the Difference

Wood Group brings vast process plants experience to your project. Our process engineers and project managers average more than 20 years in the process industry, with extensive knowledge of all project execution aspects of the chemicals, petrochemicals, polymers and refining industries. Our quality designs are backed by a strong support team and the latest in project control and 3D design tools. Our proven track record of providing solutions that minimize expenditures and optimize production contributes significantly to our high level of repeat business. Our focus on the front-end ensures your project is executed successfully, on schedule and on budget.

## Providing the Services You Need

We also have extensive expertise in plant revamps and modernizations. Our project teams have hands-on engineering know-how to take a grassroots project from concept through startup. We provide:

- Total project management
- Process design
- Feasibility studies
- Cost estimates/scheduling
- FEED packages
- Technology consulting and evaluation
- Engineering design and procurement services
- Construction management
- Inspection and expediting
- Automation and control
- In-plant services
- Licensor support

## What We Offer

- Project support from conception through operation
- Experienced process engineering and project management
- Revamp and debottlenecking expertise
- Basic package preparation
- Front-end engineering design (FEED)
- Modular design expertise
- Engineering, procurement and construction management (EPCM) or engineering, procurement and construction (EPC) execution

## We Know the Process Technology

Wood Group Process Plants Group has excellent working knowledge of effective technologies through experience with the industry's leading technology licensors and providers.

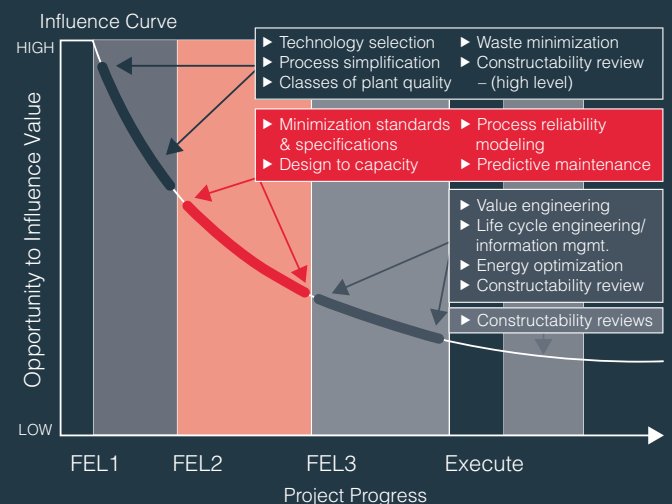
Among them are:

- Axens
- CB&I Lummus
- CB&I TPA
- CDTECH
- Chevron Lummus Global
- ChevronPhillips
- ConocoPhillips
- ExxonMobil
- Dow
- DuPont Stratco
- Haldor Topsoe
- Ineos (formerly Innovene)
- INTEVEP
- Linde
- LyondellBasell
- Process Dynamics
- Shell Global Solutions
- TPA
- UOP

## Value Improvement Practices

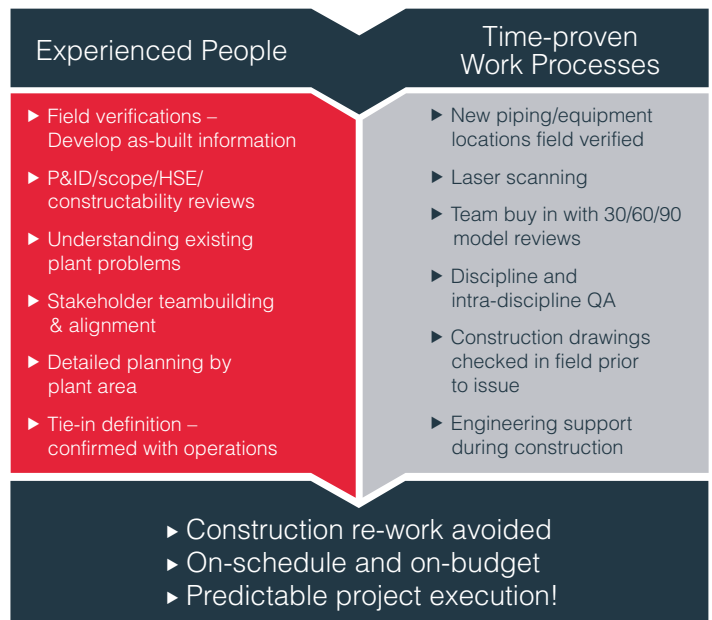
Wood Group utilizes Value Improvement Practices (VIP) to help ensure the quality and success of your project. Our specialists implement VIP during the project's FEL 1–3 stages where the highest opportunity exists to positively influence project outcome.

## Chemicals & Polymers





## Revamp Execution Approach



## We Know the Project

Wood Group Process Plants team has experience with most proprietary technologies. We offer solid licensor support while remaining technology neutral to provide the best solution possible.

Our **chemical** capabilities include:

- Alpha olefins
- Cumene
- Dimerization
- Engineered plastics
- Ethylene oxide/ethylene glycol
- Fischer-Tropsch
- Gasification
- Hydrogen plants
- Isomerization
- Olefins
- Oxygenates
- Paraxylene
- Phosgene
- Polycarbonate
- Polyethylene
- Polypropylene
- Polystyrene
- PVC
- Styrene monomer
- Synthetic rubbers and elastomers
- Sulfur recovery

## A Proven Revamp Execution Approach

Wood Group's experienced chemical & polymers team, combined with excellent processes, allows us to deliver predictable results to your revamp project - on time, on budget and no surprises.

## Implementing Best Practices

Wood Group is experienced in all areas of Best Practices, including those recommended by the Construction Industry Institute (CII). These Best Practices are designed to improve performance in project cost, schedule, operability, safety, reliability, and client satisfaction. Our projects repeatedly score highly on IPA benchmarking, a key indication of our commitment to excellence in execution.

## Technology Commercialization

Our experience in chemical, petrochemical, agrichemical and environmental fields gives us the expertise to specialize in assisting our clients with introduction of "first of a kind" technologies.

We offer:

- Total project management
- Process design
- Feasibility studies
- Cost estimates/scheduling
- FEED packages
- Engineering design

