

## Petroleum Refining & Gas Processing

GlassRatner (formerly Interface Consulting) specializes in troubled projects, from providing guidance during project planning and execution to expert testimony and analysis in litigation, arbitration, or mediation. Clients including oil refineries, gas companies, industrial contractors, EPC contractors, pipe fabricators, equipment suppliers and installers, insurers, and attorneys have called on us for 35 years for the following services:

### **Project Planning & Execution**

- Feasibility Studies
- Contracting Strategies
- Contract Development
- Contract Risk Analysis
- CPM Scheduling
- Project Oversight & Management
- Risk Management
- Project Control Systems
- Cost Estimating
- Claims Avoidance
- Project Reviews & Audits
- Change Order Management

### **Claims, Arbitration & Litigation**

- Claims & Impact Analysis
- Liability & Cost Assessment
- Alternative Dispute Resolution
- Construction Defect Analysis
- CPM Schedule Analysis
- Delay & Disruption Analysis
- Damage Quantification
- Productivity Loss Evaluation
- Contractual Entitlement
- Expert Reports & Testimony
- Engineering Analysis
- Standard of Care

GlassRatner's petroleum refining and gas processing experience includes work on numerous structures and facilities around the world, including:

- Plant Upgrades & Expansions
- Liquefied Natural Gas (LNG) Plants
- Natural Gas Liquids (NGL) Plants
- CO<sub>2</sub> Recovery Process Plants
- Oil & Gas Separation Plants
- Cryogenic Gas Processing Plants
- Compressor Stations
- Petroleum Refineries
- Natural Gas Processing Plants
- Gas-To-Liquids (GTL) Plants
- Gas Storage Facilities
- LNG Liquefaction & Regasification Facilities
- Turnarounds & Plant Maintenance
- Biofuels Facilities



# Representative Projects

AGE Refining ULSD Compliance Upgrade	Lyondell-Citgo 1995 Coker Turnaround
Air Liquide Gulf Coast Hydrogen Steam Methane Reformer (SMR)	Marathon Catlettsburg Refinery Upgrade
Aguaytia Energy Gas Fractionation Plants	Martin Energy Services Galveston Terminal
Amoco Hugoton Jayhawk Natural Gas Plant	Mauritania Banda Gas Project
Apache Castex Belle Isle Gas Processing Facility	Max Midstream Edna and Seahawk Terminals
Bakersfield Renewable Fuel Project	Meeker & Pioneer Gas Plants
BP Texas City Refinery Plant Maintenance	Merey Sweeny Delayed Coking Units
Cameron LNG Project	Midmar and Fasken Gas Processing Plants
Chevron Gaviota Gas Plant	Murphy Oil Meraux Refinery Turnaround
CITGO Lemont Refinery Turnaround	NatGasoline Methanol Production Plant
Clark Refining Heavy Oil Upgrade	Neftegas Crude Oil Processing Plant
Coastal Corp. Blacks Fork Gas Processing Plant	Neptune II Gas Plant
Conoco Westlake Hydrocracker	Oil Stabilization Trade Secrets Matter
ConocoPhillips Ferndale Sulfur Recovery Unit	PDVSA Lake Maracaibo Lama NGL Plant
ConocoPhillips Rodeo Refinery ULSD Revamp	Pemex Atasta Compression Upgrade
Crestwood Bear Den II Natural Gas Processing Plant	Pemex Deer Park Refinery Injury Matter
Draft Horse Gas Treating Facility	Permian Highway Pipeline Harper and Eldorado Compressor Stations
Eagle Ford Central Processing Facilities - McCarty Ranch & Neu Wassenberg Ranch	Petrocon Refined Liquids Port Arthur Facility
Energia Costa Azul LNG & Regasification Plant	PetroTrin Process Facility
Exxon BOP-EX Refinery & Petrochemical Plant	Process Improvement Project
Exxon Mt. Belvieu Finishing Expansion	RDP Pacific Refinery and Petroecuador Esmeraldas Refinery Projects
ExxonMobil Baytown Olefins Plant	Ryckman Creek Gas Storage Facility
ExxonMobil Qua Iboe Terminal Emulsion Water Systems Project	Santa Fe Midstream 30-30 Gas Treating and Process Plant
Grey Ranch Compressor Station Explosion	Saudi Aramco Riyadh Refinery
Grey Ranch Natural Gas Plant	Setal Lummus Niteroi Fabrication Facilities
Gulf Chemical Puerto Rico Refinery & Terminal	Sinclair Wyoming Refinery Platte Substation
Gulf Chemical Refinery and CORCO Terminal Facilities	Sonatrach Bethioua LNG 2Z Retrofit
Hannibal Gas Treating Plant	Sonatrach Menzel Ledjmet East Field
Hess Corporation Tioga Gas Plant Expansion	Targa Johnson Cryogenic Gas Processing Plant
Hess Corporation Tioga Gas Plant Wellsite	Tellurian Driftwood LNG Production & Export Terminal
Hess Hawkeye Compressor Station	Tesoro Anacortes Oil Refinery
Holly-Tulsa East and West Plant Refineries	The Southcross Energy Frio LaSalle Lancaster Treating Facility Explosion
Houston Oil/Water Separator	The Wynnewood Oil Refinery Explosion
HOVENSA Christiansted Refinery Distillate Desulfurizer Unit Fire	TOTAL Bayport Refinery De-Aromatization Unit
HOVENSA St. Croix Delayed Coking Unit	Trintoc Pointe-a-Pierre Refinery Upgrade
HOVENSA St. Croix Low Sulfur Gasoline Unit	US DOE SPR Big Hill & Bryan Mound Degassing Facilities
Ichthys LNG Project	Valero Aruba Refinery
ITC Deer Park Terminal Injury Matter	Valero Aruba Refinery Tosi-5 Boiler
Juniper GTL Brownfield Plant	Valero Energy Ardmore Refinery ULSD Upgrade
Keystone Generating Station Flue Gas Desulfurization	VEHOP Process Refinery
Kinder Morgan New Caney Compressor Station	Venezuelan Extra-Heavy Oil Project Refinery
Kuwait Oil & Gas Facility	Williams Partners Fractionation Facilities
Linde US Canadian Valley Processing Plant	
Lyondell-Citgo 1994 Coker Turnaround	