Refineries and petrochemical industry

Encompassing a wide array of processes, oil refining and oil and gas processing pose a number of challenges. Economies of scale, an ongoing quest for productivity, and process safety needs are of chief concern. Based on our diversified portfolio, Siemens is one of the few companies able to help you with all these issues. As the market leader in providing rotating equipment for the production of methanol, olefin, and ammonia, Siemens is perfectly placed to provide our customers with a wide range of innovative rotating, electrical equipment, and automation solutions for refineries and petrochemical plants.

### Solutions

- Process and wastewater treatment
- Power generation turnkey plants and power islands
- Power transmission and distribution
- Energy automation
- Compressors
- Safety and security
- Telecommunications
- Electrical instrumentation, automation, and control
- Process instrumentation, metering, and analytics
- Lifecycle management software
- Safety systems
- Pressure relief systems management services

### Systems

- Separators, hydrocyclones, and flotation systems
- Spent caustic treatment
- EcoLight™ Membrane Bioreactor (MBR) system
- Industrial gas turbine trains for power generation
- Aeroderivative gas turbine trains for power generation
- Steam turbine trains for power generation
- Fuel gasification units
- PostCAP™ CO₂ capture units
- Waste heat recovery systems
- High-voltage alternating current (HVAC) and direct current (HVDC) systems
- E- Houses
- Substation automation
- Energy management systems
- Protection for power systems
- Power quality systems
- Crack gas compressor trains
- Pure phthalic acid (PTA) trains
- Integrated drive systems
- Fire and leak detection
- Automated wide area surveillance
- RuggedCom
- SIMATIC industrial automation
- SIMATIC SCADA
- Temperature, Flow, level, and position management
- Process gas chromatography
- PLM software
- Fire and gas (F&G) systems
- Emergency shutdown safety systems

### Products

- Zimpro® Wet Air Oxidation
- Gas turbine mechanical drives
- Aeroderivative mechanical drives
- Steam turbine mechanical drives
- Generators
- Transformers
- Gas- and air-insulated switchgear
- Low-voltage switchboards
- Motor control centers
- Arc protection
- Motor and generator protection
- Air compressors
- Low-, medium-, and high-voltage motors
- Low- and medium-voltage and variable-speed drives
- Gears and couplings
- Flow and level measurement
- XHQ – Operations intelligence
- Telecontrol systems
- Network automation
- SIMATIC controllers (PLCs)
- SIMATIC IO systems
- SIMATIC control systems
- SIMATIC programming software
- SIMATIC programming devices
- Contorl flow meter
- Water analytics
- Teamcenter
- NX Suite