

**INFOSYS PLANT
ENGINEERING
SERVICES —**

**YOUR PARTNER
IN WORLD-CLASS
PLANT ENGINEERING
& MODERNIZATION**

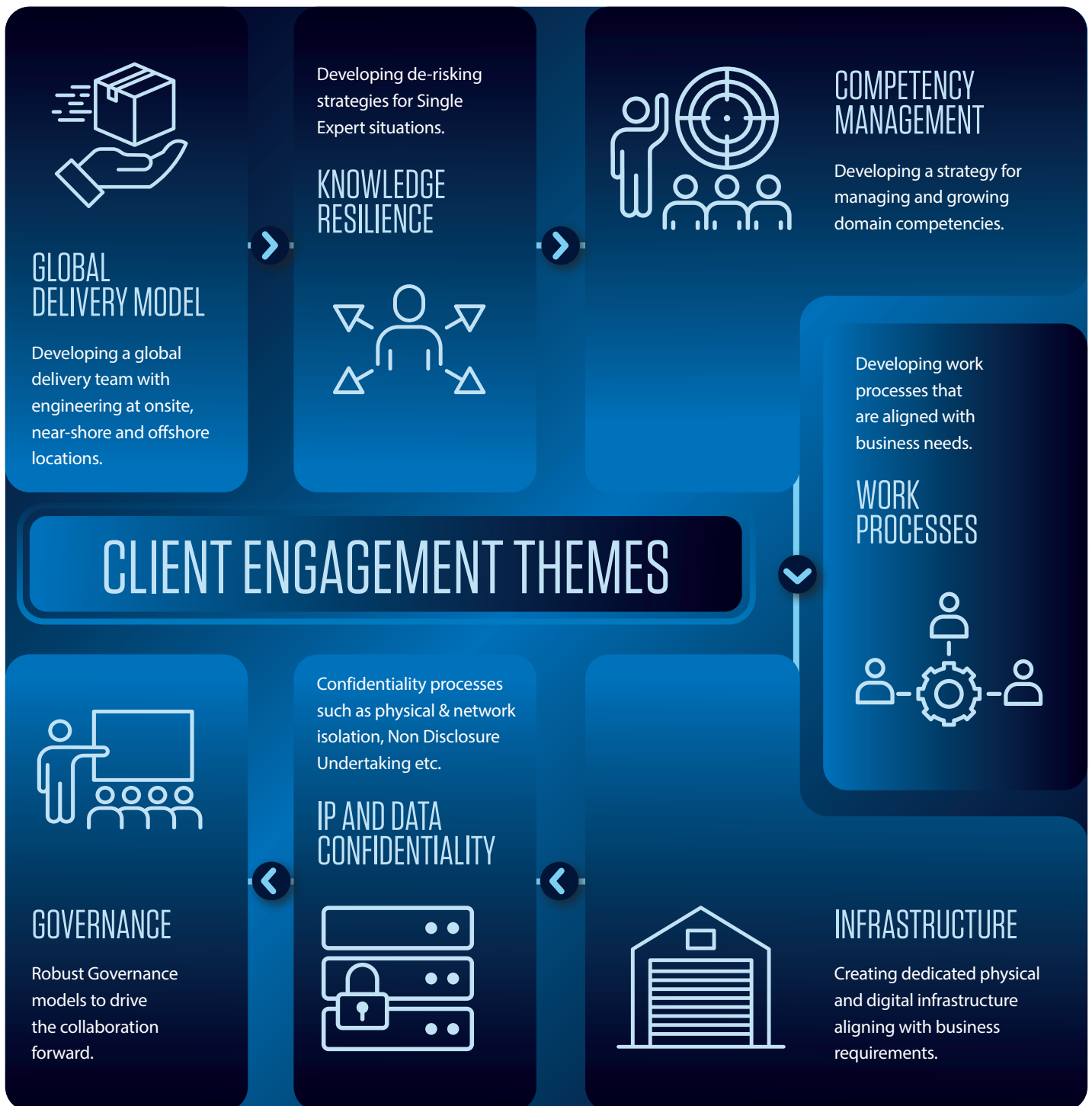


Infosys Plant Engineering Services helps power and process industry enterprises accelerate **engineering, modernization, and operational transformation**. With strong multidisciplinary expertise and a digital-first approach, we bring together advanced engineering tools, global talent, and next-gen technologies to help clients **plan, design, build, and operate high performance industrial facilities**.

Across greenfield, brownfield, and modernization programs, we deliver end to end services including conceptual engineering, detailed design, retrofit analysis, and asset digitization.







Our global delivery model ensures **scalable, agile, and cost efficient execution**.

We work closely with clients to address challenges such as improving design accuracy, reducing engineering cycle times, and enhancing safety and sustainability. Through **digital twins, AI enabled automation, and connected data practices**, we help organizations transition to modern, data driven engineering. Backed by decades of experience and continuous innovation, Infosys enables **predictable project outcomes, improved maintainability, and long term operational resilience**.



Plant Lifecycle Service Offerings


Concept & Basic Engineering

-  Feasibility studies and evaluations
-  Technology selection and long lead equipment definition
-  Pre bid engineering
-  Design Criteria & PFDs
-  Plot plans, equipment and Power system studies
-  Equipment sizing, material selection





Detailed Engineering

-  P&IDs and 3D Model development
-  Design basis reports, Electrical SLDs, circuit design, MCCs
-  Piping isometrics, support design
-  Safety studies (HAZOP, SIL, FMEA, SPOF)
-  Structural detailing and calculations
-  Instrumentation loops, assemblies & field equipment

Modernization & Retrofit Engineering

-  Laser scanning and point cloud modeling
-  Digital reconstruction of as-built environments
-  Stress reanalysis of aging piping
-  Retrofit and rerouting engineering

Asset Management

-  Digital twins and visualization
-  Engineering data management & Data dictionaries
-  Data models aligned with Global interoperability standards
-  Master data management & Integrated engineering



Plant Engineering Capabilities

Civil & Structural

- Steel and RCC design
- Heavy equipment foundations
- BIM (3D/4D/5D) and detailing
- **Tools:** Tekla Structures, Revit, STAAD Pro, IDEA StatiCa, Civil 3D, RAM Connections
- Legacy data migration
- Seismic / Dynamic analysis
- General arrangement, assembly and part drawings

Mechanical & Piping

- Equipment layout and piping design
- Piping Flexibility analysis
- Modular/skid design
- **Tools:** Aveva E3D, Autodesk Plant 3D, CAESAR II, ROHR2 Smart 3D, CADMATIC, VVD
- Support design and detailing, GADs, Isometrics
- Clash detection and walkthroughs
- MTOs and Bill of Materials

Process Engineering

- PFDs and P&IDs
- Process Design, Heat and Mass balance
- Specifications and bid evaluations
- **Tools:** COMOS, Aveva Diagrams, Plant 3D P&ID, VSE, Smart PID
- Equipment sizing and System descriptions
- Operating philosophy
- Performance test procedures

Electrical Engineering

- Power System studies and SLDs, Design for Protection and Metering
- Layouts, Schematics, Wiring diagrams, Fire detection
- Cable Engineering & Tray routing
- **Tools:** ETAP, SKM, EDS, Aveva Electrical, COMOS, EPLAN, E3D, SP3D
- Equipment specification, Sizing, Technical bid evaluations
- Cathodic protection, SPOF, FMEA
- Factory acceptance tests and Site acceptance tests

Instrumentation & Controls

- Control architecture, Control Interface
- Field Instrument specification, Sizing, Technical bid evaluations
- Layouts, Hook up drawings, Wiring diagrams
- **Tools:** Aveva Instrumentation, SPI, COMOS, EPLAN
- Logic diagrams, Control philosophy
- Cable Engineering
- Controller configuration, Site acceptance tests

Project Management Office & Documentation

- Project setup, scheduling, budgeting
- Change and knowledge management
- Expediting, performance monitoring
- **Tools:** Primavera, MS Project, Aconex, Documentum, Cleopatra Synchro
- Document management and controls
- Technical publications
- Procurement and supplier coordination

Asset Management

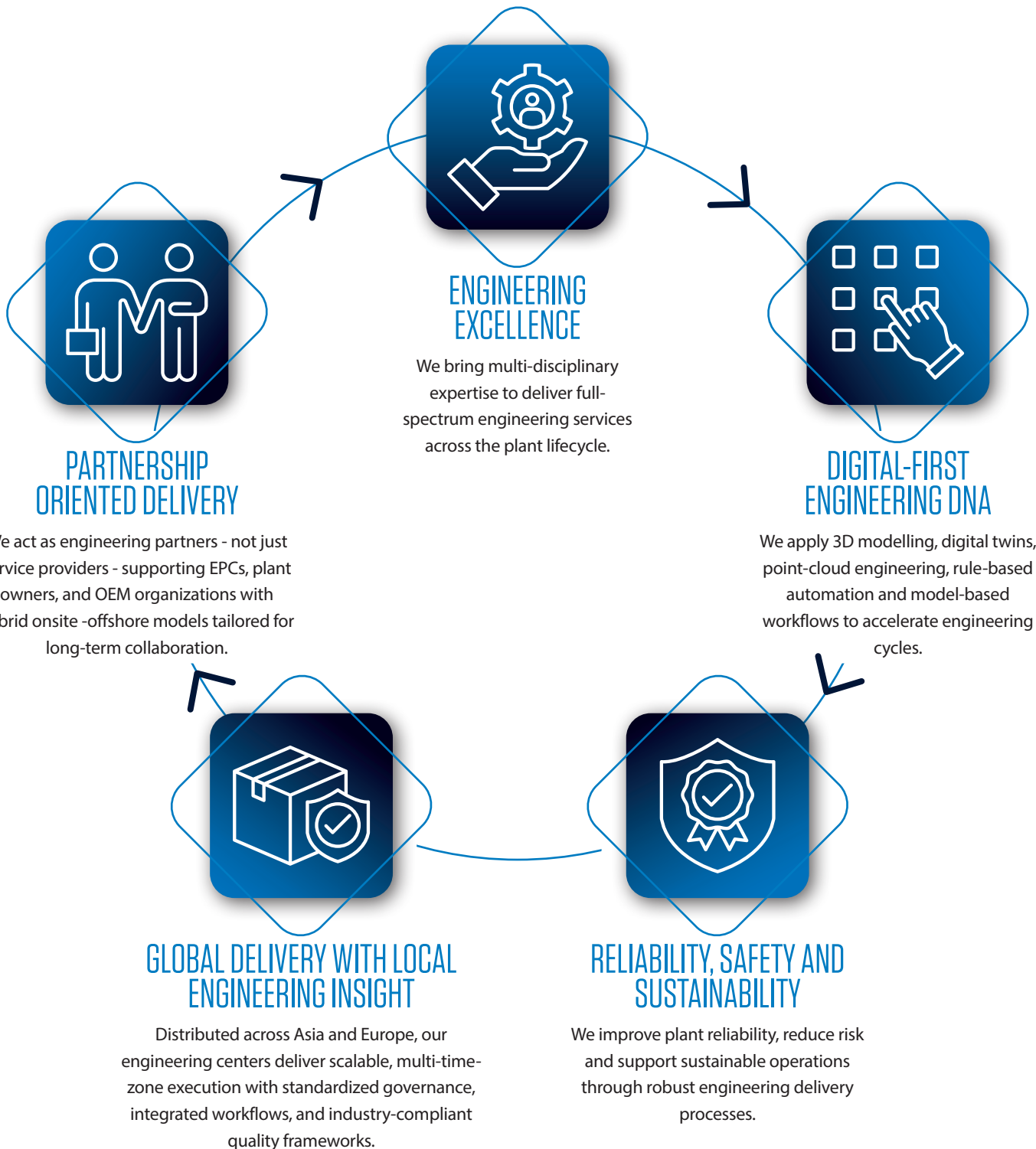
- Digital Twins & Unified Information access
- Inter- operability across IT and OT systems
- Engineering Data Integration
- Engineering Business process optimization for Digitalization

INFOSYS VALUE PROPOSITION

Infosys Plant Engineering Services delivers future ready engineering solutions that help enterprises design, modernize, and operate facilities with greater efficiency, reliability, and sustainability.

Combining engineering expertise with digital intelligence and a global delivery model, we enable faster project cycles, predictable outcomes, and long term operational excellence. Our engineering partner mindset, disciplined execution, and commitment

to safety empower organizations to navigate complex plant engineering environments confidently. Our approach integrates multidisciplinary engineering, digital first practices, and scalable delivery engines. With global talent, modern toolsets, and proven frameworks, we provide comprehensive EPC/EPCM engineering services tailored to EPCs, owner operators, and OEMs—ensuring transparency, adaptability, and consistent quality across the plant lifecycle.



Reference Success Stories:



DETAILED ENGINEERING FOR A DE-INKING PLANT

Infosys delivered complete multidisciplinary detailed engineering for a de-inking plant, covering process, mechanical, piping, electrical, instrumentation, civil/structural, and layout engineering within a highly constrained environment. A structured execution framework with Level-5 WBS, robust engineering coordination, design walkthroughs, and continuous clash detection ensured design quality and constructability.



HRSG INTEGRATED DESIGN

Infosys provided specialized end-to-end engineering for Heat Recovery Steam Generators (HRSGs) supporting combined-cycle power plants, spanning thermal and mechanical integration, pressure parts, auxiliary systems, instrumentation & controls, piping, and structural design. Dedicated Centers of Excellence enabled standardized, regulation-compliant designs with strong focus on performance, constructability, and lifecycle reliability.



POWERPLANT INTERCONNECT SYSTEMS DESIGN

Infosys executed basic and detailed engineering for steam turbine and generator interconnecting systems, including gland steam, steam and drains, lube oil, hydraulic oil, and generator seal oil systems. The approach emphasized ASME-code-compliant piping design, detailed stress analysis, routing optimization, clash checks, and standardized support and auxiliary steel design, supported by focused design reviews and coordinated deliveries.



POWER PLANT ELECTRICAL ENGINEERING

Infosys delivered basic and detailed electrical engineering for power generation facilities, covering substations, hydro and gas plants, and Battery energy storage system installations. The scope included power system studies, equipment engineering, and comprehensive layout and cable engineering, executed through standardized calculation templates, design guidelines, and engineering practices aligned with regulatory and client standards.



MODULAR DESIGN FOR COMPRESSOR STATIONS

Infosys developed a modular engineering solution for gas compressor stations in the midstream gas transmission sector, covering process, mechanical, piping, structural, electrical and HVAC disciplines. The team established standardized design variants aligned with client practices and industry standards, enabling scalable and consistent deployment across multiple compressor station capacities.



For more information, contact askus@infosys.com



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