

# Storage Tanks Asset Capture and ZynQ Visual Twin

## Case Study | Baytown Complex | USA

The ZynQ visual twin platform was initially adopted for documentation of tank conditions and operations. As data accumulated over time, teams discovered that the platform had also reduced field time, improved safety, and enhanced efficiency- expanding its value well beyond the original scope.

The Baytown complex, one of the largest of its kind in the U.S., includes a refinery, chemical plant, and polyolefins plant, with tanks for crude, intermediate and final products (gasoline, diesel, jet fuel), as well as feedstocks for the chemical units.

ZynQ allows teams to remotely review worksopes, equipment placement, and tank conditions, supporting informed decisions and approvals without requiring additional site visits. The platform also enables remote inspection of the internal tank components after returning a tank to service.

### Active Use Cases:

- ✓ Asset visualisation
- ✓ Tank inspections
- ✓ Turnaround planning
- ✓ Remote engineering
- ✓ Workpack planning
- ✓ Pipe rack visualisation

### Key Benefits:

- Streamline workflows and planning for improved productivity and maintenance accuracy
- Integrate inspection records and measurements with the visual twin for historical tracking
- Visualise project scope to support development, execution, and faster problem-solving
- Enhance communication and collaboration to align stakeholders
- Enable faster emergency response

*"ZynQ is an established system that allows data to be collected for future use, which helps analyse any repairs that may be required. It also makes it more efficient to collect data on the tanks, enabling comparisons between current and past conditions."*

**First Line Supervisor for Execution | Baytown Complex**

