

PETROCHEMICALS

CASE STUDY

Converting PDF drawings into Octave Facets with AI-assisted tools to reduce cost and accelerate delivery.

300

P&IDs delivered in
3 months

100%

On-budget delivery
across both
projects

↑

Cost savings
compared to
competitor

SUMMARY

Paragraph: The client needed to convert hundreds of legacy PDF drawings into Octave Facets to prepare for upcoming turnaround work. Traditional approaches were costly and slow. ReVisionz introduced a new path forward by managing the effort through Octave Facets while coordinating with a third-party AI partner to complete bulk conversions faster and at lower cost.

The first phase demonstrated clear value. Hundreds of P&IDs were processed on a tight timeline and delivered at a significantly lower cost than competitors. The second phase encountered delays as the AI provider struggled with quality and schedule, but ReVisionz ensured the project still came in on budget and that final deliverables met client needs.

By leading the effort, managing the subcontractor and applying our own QA and validation, ReVisionz protected the client from risk and established a repeatable process for future conversions. The project showed how AI can accelerate results when paired with disciplined oversight, and how ReVisionz balances innovation with accountability to deliver practical business outcomes.

Project Snapshot

Client Industry: Petrochemicals

Practice Areas Utilized: Digital Project Solutions

Project Duration: Two projects, each planned for 3-4 months

Client Success Criteria

- Convert large volumes of P&IDs at lower cost.
- Complete work in time for turnaround requirements.
- Maintain accuracy of converted drawings.
- Leverage AI tools without introducing unacceptable risk.

Challenges

- Conversion required balancing speed with accuracy.
- AI partner introduced delays and quality issues that needed correction.
- Timeline pressures were heightened by the client's turnaround schedule.
- Project management sat with ReVisionz, but execution relied on third-party delivery.
- Scope stretched across two plants, each with tight deadlines.



Experts guiding your digital journey

Key Results



Cost Advantage

AI-assisted workflow delivered drawings at significantly lower cost than competitors.



Accelerated Delivery

First project completed in line with turnaround needs and at a pace traditional methods could not match.



Risk Management

We controlled subcontractor performance, applied QA processes and safeguarded final deliverables.



Repeatable Model

Established a hybrid AI plus oversight approach for future conversions that balances speed and quality.



ReVisionz' Strategy

- Introduced an AI partner to accelerate P&ID conversion.
- Directed the work through Octave Facets to ensure alignment with standards.
- Managed subcontractor performance and mitigated risks during delivery.
- Applied QA processes to resolve errors before client turnover.
- Captured lessons learned to shape a repeatable process for future projects.

Tools & Tech Used

Octave Facets

Third-party AI conversion solution

Takeaways

- AI accelerates conversion and lowers cost, but only when paired with structured oversight.
- Quality assurance is critical; without it, automation risks offset the benefits.
- Strong project control over subcontractors protects schedule and deliverables.
- Lessons learned help create a repeatable approach for future projects.
- Governance keeps innovation fast while ensuring reliable engineering data.

Complexity & Innovation

- Applied AI conversion technology to accelerate drawing delivery.
- Coordinated across two projects with different plants and scopes.
- Balanced cost savings with the need for quality assurance.
- Established a repeatable hybrid model that can be scaled to future projects.

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