

ENERGY INFRASTRUCTURE

CASE STUDY

Strengthening materials management to reduce rework, improve data trust and set the stage for digital transformation.

SUMMARY

The client's materials management process was slowing projects down and driving up costs. Data was not reliable and project teams were spending time fixing problems instead of moving work forward.

ReVisionz introduced a new approach using Octave Forte. We built corporate piping material line classes, tied them into the ERP system and shifted the client from document-driven practices to a data-centric process. This created a single, reliable source of information that eliminated duplication and improved accuracy across projects.

The impact was immediate. Material data became dependable, engineering hours were saved and rework dropped away. Projects now start weeks sooner, procurement moves more efficiently and teams have the confidence to focus on higher-value priorities. The client also gained a stronger digital foundation, positioning them to adopt digital twin technology and expand their broader asset information management program.

95%

Reduction in BOM
check activities

Up to
230

Hours saved per
project

3

Weeks faster
project startup

Project Snapshot

Client Industry: Energy Infrastructure (Pipelines, Storage, Power Generation)

Practice Areas Utilized: Materials Management, Intelligent Asset Management (IAM)

Project Duration: Ongoing

Client Success Criteria

- Create reliable and trusted material data.
- Reduce rework and improve procurement efficiency.
- Standardize processes across regions and projects.
- Support integration with ERP and design tools.

Challenges

- Regional specification variations across Canada and the United States.
- Manual data entry and inconsistent EPC deliverables.
- Integration gaps with Octave Facets, ERP and other systems.
- Aligning stakeholders on new processes and standards.
- Managing cloud implementation and new reporting formats.

REVISIONZ

Experts guiding your digital journey

Key Results



Trusted Data

Reliable material information now drives consistent engineering and procurement outcomes.



Efficiency Gains

Manual rework and duplicate entry have been eliminated, freeing resources for higher value work.



Digital Twin Readiness

Octave Forte and Octave Facets created a foundation to support the client's larger AIM program.



Faster Delivery

Projects move from startup to execution more smoothly with standardized processes.



ReVisionz' Strategy

- Built corporate piping material line classes (PMLCs).
- Implemented Octave Forte as the foundation for material masters.
- Aligned processes and standards across engineering, procurement and operations.
- Integrated Octave Forte with ERP and Octave Facets tools.
- Delivered training and change enablement to drive adoption.

Tools & Tech Used

Octave Forte
Octave Facets
ERP system integration
PowerBI reporting

Takeaways

- Data-centric execution requires alignment across functions.
- Standardized line classes reduce rework and increase trust.
- Digital catalogs deliver measurable productivity gains.
- Partnerships with leading technology providers drive long-term value.

Complexity & Innovation

- Addressed regional specification variations and legacy data issues.
- Balanced bulk and tagged material requirements from EPCs.
- Automated creation of auxiliary documents like datasheets and service indexes.
- Replaced legacy processes while enhancing ERP connectivity.

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