



How AI Replaced a 20–Person Document Pipeline for an Energy Investment Firm

Automating structured document generation to evaluate more projects without adding headcount

70%+

TIME SAVED

Reduction in document generation time for repeatable sections

20→3

TEAM REQUIRED

Specialists needed per project for document processing

0

FORMAT ERRORS

AI-generated sections follow the same standard every time

INDUSTRY

Energy & Infrastructure Investment

PLATFORMS

Custom AI Pipeline, Document Engine

AI CAPABILITY

Document Automation & Validation

TIMELINE

8 weeks



Client details protected under NDA

Challenge

A major energy investment firm evaluates large-scale power projects — solar stations, wind farms, waste-to-energy plants. Each project required a team of 20 specialists to process land surveys, factory data, market intelligence, and regulatory filings through a structured document pipeline. The same steps, same formats, same validation — repeated manually for every new opportunity.

The process was reliable but painfully slow and expensive. Every new investment opportunity meant assembling the same team for the same repetitive work. The firm couldn't scale its deal flow without proportionally scaling headcount — a model that was already straining budgets and limiting how many projects they could evaluate simultaneously.

Solution

DTS mapped the entire document workflow end-to-end, identified which stages were genuinely repetitive, and built an AI automation layer on top of the existing process.

The system ingests structured inputs — land data, company profiles, energy market intelligence — and generates draft document sections in the firm's required format. A quality validation engine checks every output against the firm's documentation standards before human review. The team shifted from producing documents to reviewing and refining them.

The result is a scalable model: pursue more investment opportunities without linear team growth, while maintaining the documentation quality the firm's stakeholders expect.



Results



70%+ reduction in document generation time

Repeatable sections that took days are now produced in hours



More projects evaluated simultaneously

Deal pipeline capacity increased without adding headcount



Zero format drift

Every AI-generated section follows the same documentation standard



Scalable evaluation model

New opportunities no longer require assembling a full 20-person team

