

Generative AI bolsters Eletrobras' quest to command the renewable energy sector

65K

document audits
automated annually

9,360

hours saved annually

90%

reduction in manual
employee effort



Challenge

Stifled by 65,000 technical documents requiring review annually, the Eletrobras engineering team was stretched thin between manual tasks and broader strategic efforts. Eletrobras sought to free up labor by infusing intelligence into an automated solution.

Solution

Eletrobras assembled a robust think tank of automation specialists, business users, and analysts to reimagine and streamline its technical document reviews. Their collective expertise designed an end-to-end technical audit process combining automation, Document Automation, and generative AI powered by Google Cloud with human-in-the-loop for exception handling.

Thanks to the advanced capabilities of generative AI, an automated solution was no longer limited by the myriad of unstructured document types they possessed. The complete solution was developed in four weeks, earning valuable confidence in the automation program.

Outcome

The AI-powered solution saves Eletrobras employees 9,360 hours annually, equating to \$277,377 in budget relief. The Document Automation portion has improved its accuracy from 50% to 92%, and the model continues to self-learn daily, becoming more precise in its data extraction. Most importantly, the time savings liberate five FTEs to focus on executing strategic initiatives to advance the company's stature as a renewable energy trailblazer.



Intelligent document processing with generative AI has allowed us to reduce manual effort by 90%, returning 10,000 hours annually for employees to dedicate their focus to charging the greater company vision toward the goal line.

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Leader
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