Monetize your Sustainability efforts

PAiSE

Performatica AI for Sustainability Enterprises

Use Case 4 – Data-Driven Carbon Management

Scenario: An integrated oil and gas company operates a Carbon Capture and Storage (CCS) project to capture and store CO_2, earning carbon credits. The project in the US Midwest retrofits ethanol plants with carbon capture, storing CO_2 in geological basins.

Solution: Using PAiSE, the company optimizes its carbon-capture operations by leveraging advanced AI and curated data. The platform analyzes real-time data to predict capture efficiency and boost revenue from carbon credits. AI-powered predictive models, utilizing GenAI deep learning, optimizes storage timelines and predicts capture rates.

Key Features Utilized:
- **Experiential Knowledge:** Fine-tunes insights from multiple sources to optimize sustainability strategies.
- **Curated Data:** Utilizes diverse data types for comprehensive ESG analysis and reporting.
- **AI Virtual Agents:** Ensures security with AI agents deployable on-premises or via cloud apps. **Context-Specific Question Banks:** Accesses tailored questions to evaluate and enhance sustainability metrics.

- **Energy LLM Usage:** Leverages state-of-the-art language models for energy management and ESG reporting.

Outcome: The integration of PAiSE enables the oil and gas company to enhance its carbon capture efficiency, maximize revenue from carbon credits, and ensure compliance with sustainability standards. This leads to improved operational performance and a stronger commitment to environmental stewardship.