

Empowering Market Diversification, GTM for Emerging Markets: Tailored Market Intelligence and Strategic Insights through Hybrid Intelligence.

Use Case: Clean Energy, Carbon Capture, Utilization, and Storage (CCUS)

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### Introduction to Use Case

#### Situation

- Client: Key player in the scientific research and innovation fields
- Revenue: Tens of billions of dollars
- Market cap: Over \$100 billion
- Employees: More than 80,000

#### Complication

- Declining organic revenue growth
- Broader economic pressures
- Increasing regulatory pressure
- Need to enhance corporate image and brand value
- Ambition to deliver on corporate social responsibility goals

#### Opportunity

• Market diversification: Including entering the Carbon Capture market





### Strategic Challenges of our Client

#### Challenges

- Strategic alignment and coordination
  - e.g. input and feedback from multiple senior leaders: Senior Director
     Marketing & Strategy, GM Green Energy, Director Industrial Markets, Global
     Director Portfolio & Technology, Director Clean Energy, Senior Director
     Business Development, and many more
- Acquiring specialized market knowledge and deep technical understanding
- Managing risks and uncertainties, e.g. evolving regulations and policies
- Integrating new initiatives with existing operations
- Addressing financial considerations, investment in R&D, technology acquisition, and market entry activities

#### Questions

Where are top Oil & Gas companies investing for green transition and how can our client become their technology partner?



What are key Carbon Capture, Utilization, and Storage (CCUS) investments, techniques, challenges and what motivates the investment?

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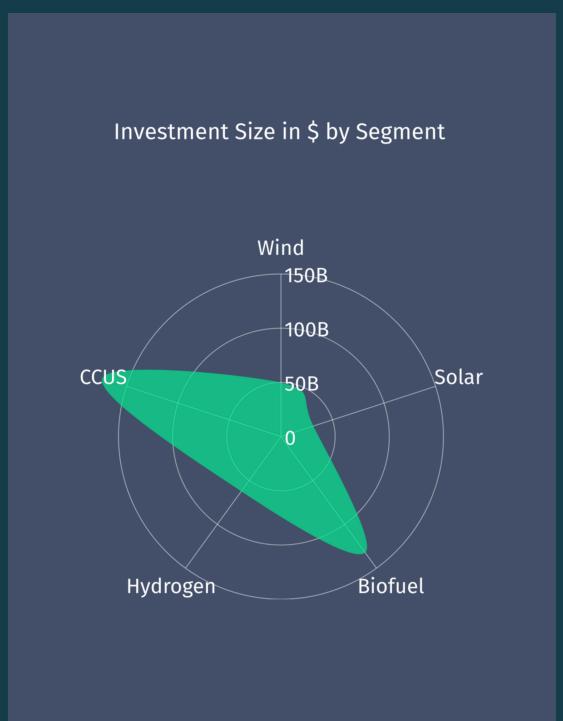


## Where are top Oil & Gas companies investing for green transition and how can our client become their technology partner?

#### Our approach and results

- Assembled the big picture from details
- Analysis of over 100,000 pages of reports
- Extracted, categorized and aggregated investments of 1,170
   Clean Energy projects
- Computed estimations for unavailable data using alternative methods
- Found Carbon Capture,
   Utilization, and Storage (CCUS) to
   be the largest segment



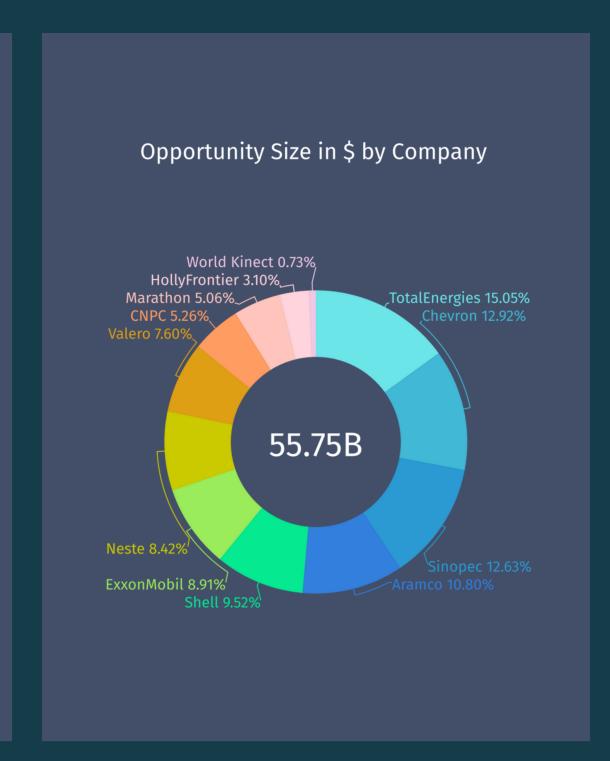


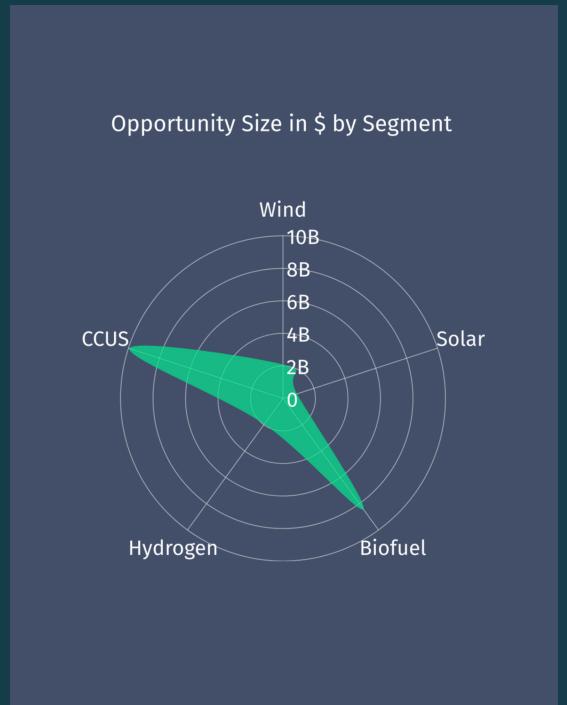


# Where are top Oil & Gas companies investing for green transition and how can our client become their technology partner?

#### Our approach and results

- Identified the main technical challenges for each of the 1,175 projects, as well as project start date and planning/operational status
- Compared the challenges with our client's product portfolio to assess the potential impact in \$
- Formulated short-, mid-, and long-term strategies on a product by product-level to optimally position our client for growth



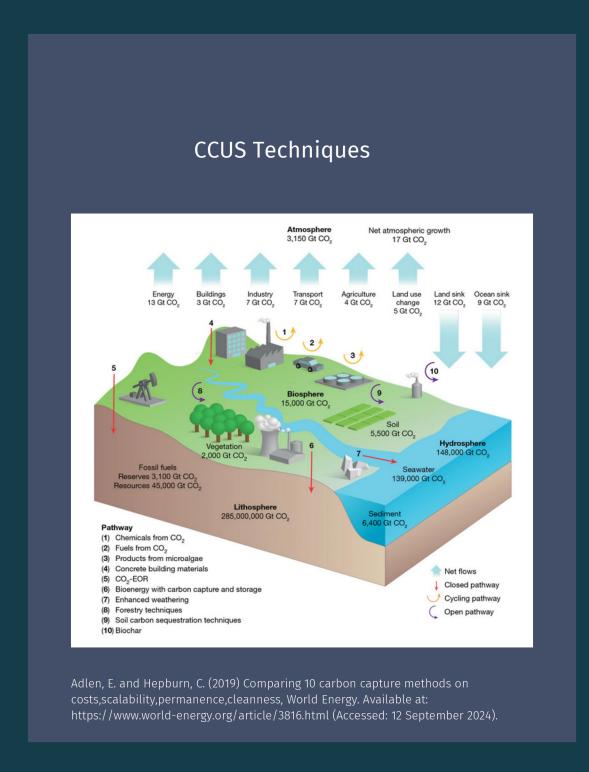


## SCITODATE

# What are key Carbon Capture, Utilization, and Storage (CCUS) investments, techniques, challenges and what motivates the investment?

#### Our approach and results

- Established expert-level foundational understanding for our client through research paper-, patent-, and technical documentation analysis
- Extracted, categorized and aggregated investments of over 300 CCUS projects
- Identified four major categories attracting over 80% of total investment, Geological Storage and Enhanced Oil Recovery the largest categories





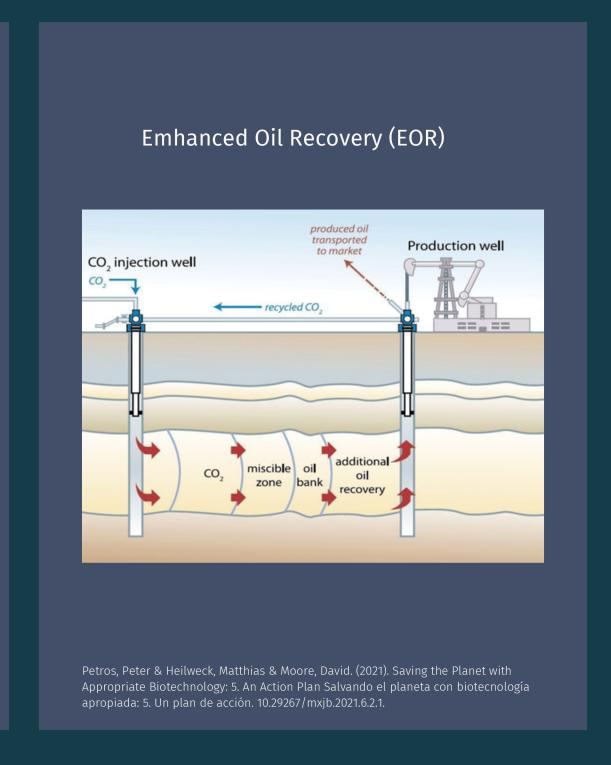


# What are key Carbon Capture, Utilization, and Storage (CCUS) investments, techniques, challenges and what motivates the investment?

#### Our approach and results

- Found Enhanced Oil Recovery offers the best monetary incentive
- 2/3 of oil reserves in US are not accessible by primary and secondary recovery methods
- 1/2 of it can be extracted by CO<sub>2</sub>
   EOR → 200 billion barrels
- Formulated short-term strategy to position our client's technologies for commercial opportunities

9.2. commercial carbon dioxide uses: Carbon Dioxide Enhanced Oil Recovery (no date) netl.doe.gov. Available at: https://netl.doe.gov/research/coal/energy-systems/gasification/gasifipedia/eor (Accessed: 12 September 2024).







# 100+ innovators and leaders have conquered their markets with our expertise





### We specialize in fast-growing, complex deep-tech verticals.



Compute
Hardware
Technologies



Biotechnology, Health, and Life Sciences



Clean Energy



Sustainable Technologies



Materials and Manufacturing



Robotics and Automation



Aviation and Aerospace



Sustainable
Agriculture
and Food
Production

#### • CCUS \$352B

- Capture \$236B
  - Post-Combustion Capture \$107B
  - Direct Air Capture \$67B
  - Biological Carbon Capture \$23B
  - Pre-Combustion Capture \$19BAbsoption-Based Capture \$6B
- Adsorption-Based Capture \$5B
- Storage \$77B
- Geological Storage \$56B
- Sub-seabed Storage \$15B
- Wetland Restoration \$5B

#### Utilization \$38B

- Hydrogen and Syngas Production \$14B
- Power Generation with Carbonation \$11B
- Enhanced Oil Recovery \$6

#### • Biofuel \$198B

- Hydrogenated Vegetable Oil \$61B
- Second-Generation Biofuels \$51B
- Biodiesel \$27B
- Bioethanol \$23B
- Thermochemical Conversion \$11B
- First-Generation Biofuels \$7B
- Wind \$177B



### And we can help if you are looking to....

Determine the total addressable market (TAM) for your product

Explore long-term growth opportunities in emerging markets

Analyze key competitors' strengths and weaknesses

Forecast future technology adoption trends in your industry

Consider a technology for acquisition to strengthen your market position

Identify the regions to target first for your campaigns

Increase your market share short-term

Monitor immediate competitive threats

Prioritize and leverage market-applicationrelevant product specifications

Consider companies for acquisition to strengthen your market position

Strategic Objectives

Tactical Objectives

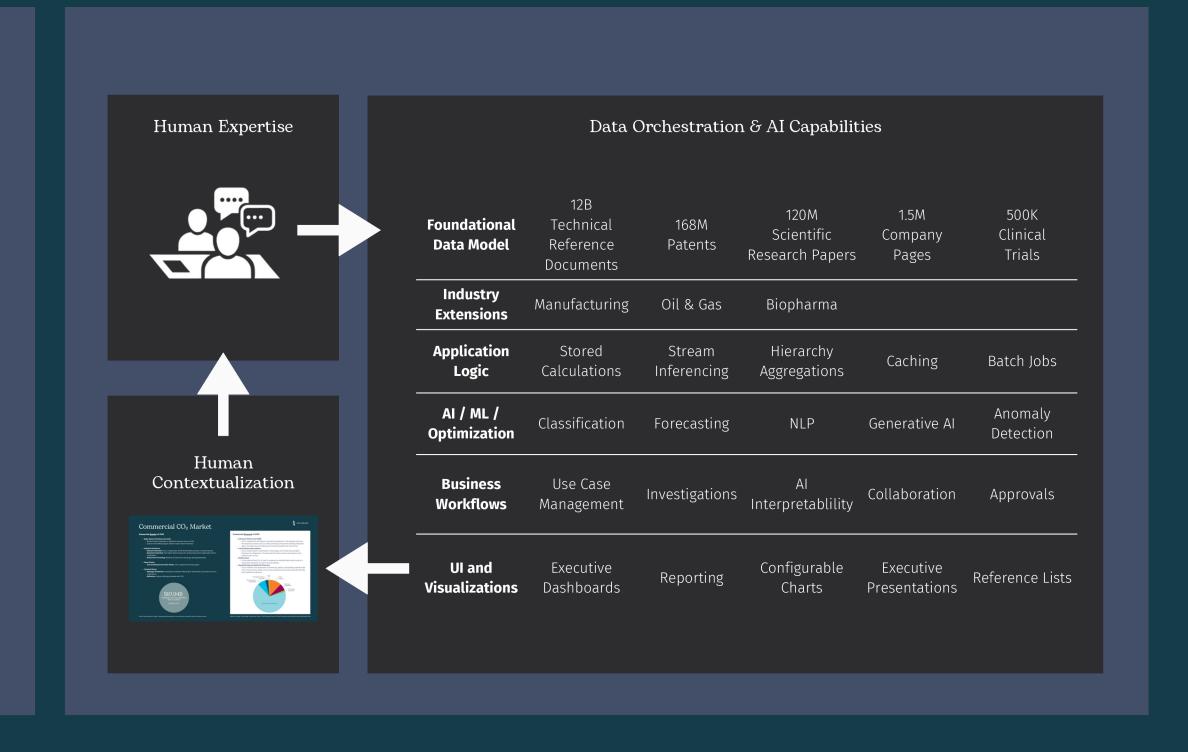


### Our Unique Edge

#### Hybrid Intelligence

- **Human Expertise**: co-develop the problem, understand the client's needs, and create the workflow
- **Data Orchestration**: multiple sources, large volumes, normalized, up-to-date, and accurate
- AI Capabilities: process large amounts of data quickly and efficiently to generate insights
- Human Contextualization:

   Interpret and align AI-generated
   insights with the client's specific
   situation





We are seeking companies excited to partner and start a pilot project with us to explore market application opportunities for photonics (in Clean Energy).

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