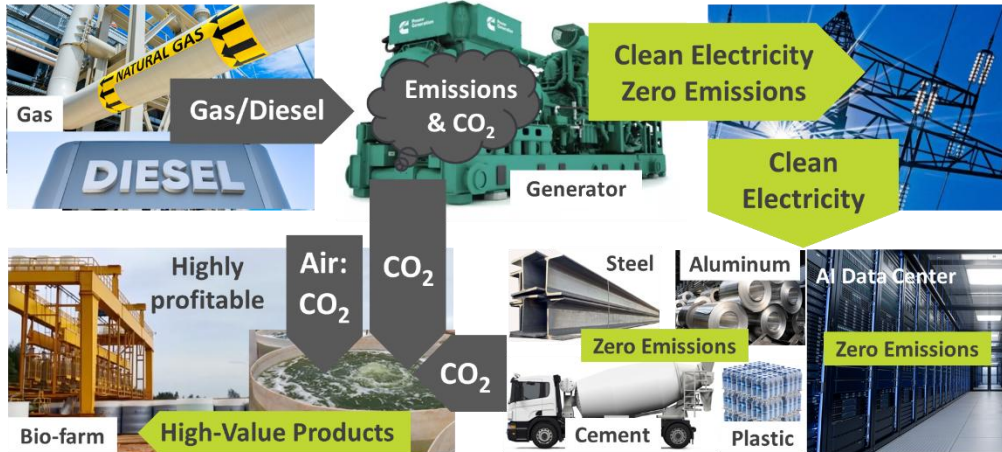


“Seismic” Impact of INNOVO Net Zero, Nil Capex for Oil & Gas

The **global launch of INNOVO’s highly profitable Smoke2Value bio-farms**—which finance, build, and operate carbon-negative infrastructure to digest millions of tons of CO₂ emissions—would likely have a **transformational impact** on the **oil and gas industry**, both strategically and financially.

Technology Summary

Smoke2Value Algae Bio-farms Profitably Digest CO₂ in Smoke



CO₂ in industrial smoke is bubbled through algae in water.

The algae profitably digest the CO₂ in smoke to yield high-value products such as fish feed, food supplements, cosmetics, and sustainable aviation fuel.

Net Zero, Nil Capex with Smoke2Value Bio-farms

Webpage and short video: [Net Zero Nil Capex](#)

We save companies with large carbon footprints, \$B+ of capex, enabling them to achieve net zero at minimal cost to them. We have started to finance, build and operate very profitable clean technology projects alongside their operations to profitably digest millions of tons of their CO₂ emissions. INNOVO makes \$200 profit per ton of CO₂ emissions, which it converts with \$400M algae bio-farms into high-value products.

Smoke2Value Technology Proven at Industrial Scale

Webpage and short video: [Smoke2Value](#)

A revolutionary clean technology has now been proven at an industrial scale. Algae bio-farms profitably digest emissions from oil & gas and are 7 times more profitable than solar. Five of the world's Top 10 oil & gas companies, including BP, Chevron, and Shell each performed 2 years' due diligence on the technology. Between them, they then placed \$16 billion of offtake contracts for the crude algal oil feedstock for sustainable aviation fuel. An INNOVO Smoke2Value bio-farm is to be collocated on a net zero, nil capex basis adjacent to the oil refinery, of an oil & gas major to profitably digest all its emissions.

Positive Impact on Oil & Gas Clients in Heavy Industries & Power Generation

Profitably enabling oil & gas to be a zero emissions source of energy at nil capex has a profoundly positive effect on their clients in heavy industries and power generation. This is demonstrated by the resulting long-term potential savings in current ongoing decarbonization costs as the Smoke2Value bio-farm technology is deployed globally:

- **Steel industry: \$4.4 trillion** over the next 30 years.¹
- **Cement industry: \$1.8 trillion** over the next 30 years.¹
- **Power generation: \$2.7 trillion** yearly.²

A Smoke2Value bio-farm can **digest the same amount of CO₂ from the air as it does in emissions**. This **extra direct air capture offsets those emissions** which are not susceptible to direct capture by a bio-farm.

¹ [Spotting opportunities in a surging net zero world | Sustainability | McKinsey & Company](#)

² www.publicpower.org

There are ongoing case studies which demonstrate the positive impact on specific oil & gas clients:

- **Global steel company** where the net zero, nil capex model can profitably **digest 1 million tons CO₂** yearly, saving **~\$200 million in decarbonization costs**.
- INNOVO Smoke2Value bio-farms collocated on a **net zero, nil capex** basis with a succession of the first **six chemical factories of a global plastics producer**.
- A **gas-powered data center** is to have **net zero emissions** because its CO₂ is to be digested by a collocated INNOVO Smoke2Value bio-farm.

Halting the Global Decline of Oil & Gas Market Share

Estimated Revenue Loss Due to Market Share Decline

- **Market share of oil and gas** in global energy declined from **~60–65% in 2020** to **~50–52% in 2024**.
- Assuming a **constant demand scenario**, this **~10–13% drop in market share** translates to a **revenue loss of \$700–900 billion** over the four-year period.
- This estimate is supported by:
 - A **10% real-term drop in cash from operations** for upstream companies in 2024.³
 - A **15% decline in shareholder distributions** (dividends and buybacks).¹

Stranded Asset Risk Mitigation

According to MIT³ and Carbon Tracker⁴:

- Up to **\$30.6 trillion** in fossil fuel assets could be stranded by 2050 under net-zero scenarios.⁴
- Oil companies are in “**harvest mode**,” avoiding long-term investments due to fear of stranding.⁵
- The Smoke2Value bio-farm model **extends the economic life** of oil & gas assets by neutralizing their emissions, potentially **reversing or delaying stranding**.⁶

Key Drivers of Asset Stranding

1. **Climate Policy:** Regulations like carbon pricing, emissions caps, and bans on fossil fuel extraction.
2. **Market Shifts:** Declining demand for oil and gas due to competition from renewables..
3. **Social Pressure:** Divestment campaigns and changing consumer preferences for sustainable goods.
4. **Legal Risks:** Litigation against high-emission companies.

Financial Implications

- **Avoided Capex:** INNOVO Smoke2Value bio-farms digest CO₂ at **no cost to emitters**, can ultimately save oil & gas companies and their heavy CO₂ emitting clients **\$ trillions in decarbonization infrastructure**.
- **Increased sales revenues:** **Enhanced long-term retention of industrial clients** who would not need to switch to non-emitting energy alternatives.
- **Increased sales of sustainable aviation fuel (SAF):** Oil & gas companies can take bio-farm feedstock to generate substantial volumes of SAF, which is in short supply, improving balance sheets and enabling compliance with global carbon markets.

Strategic Repositioning of Oil & Gas Majors

INNOVO's Smoke2Value bio-farms offer a **profitable, scalable, and zero-capex solution** for oil and gas companies to:

- **Halt their declining global market share.**
- **Achieve net-zero emissions** without divesting from core oil & gas operations.
- **Avoid stranded asset write-downs** by enabling continued use of high-carbon assets.
- **Comply with tightening climate regulations** and carbon pricing schemes.

³ www.eia.gov

⁴ [MIT – Stranded Assets Study](#)

⁵ [Carbon Tracker – Stranded Strategies](#)

⁶ [CU Boulder – The Green Paradox\[5\]](#)