



**ELITE CORE**  
Contracting Company

# **ELITE CORE**

## Company Profile

2024 - 2025



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## About us

Elite Core Contracting Company is an Iraqi firm driving innovation and sustainability across different sectors, to shape the future of the oil and gas industry in Iraq. The company focuses on environmental solutions aimed at upgrading oil refineries to minimize pollutants and reduce greenhouse gas (GHG) emissions. Elite Core has a strong track record in sulfur removal from crude oil products and is engaged in monitoring pollution in air, water, and soil. The company is also working on establishing a green plant that uses seawater as feedstock for chemical production.

Elite Core conducts energy efficiency audits for oil extraction and processing facilities, recommending upgrades to improve machinery, recover waste heat, and reduce energy consumption. They have a number of projects aimed at improving environmental impact and operational efficiency in the oil industry.

Elite Core is also keen on forming partnerships with reputed companies, particularly those involved in cutting-edge technologies and development, air quality monitoring and emission control.



# OUR SERVICES

## Projects in Iraq

### Sulfur Removal from Crude oil products

Elite Core Contracting has embarked on a mega project aimed at upgrading crude oil refinery products to meet Euro 5 standards, which focus on reducing harmful emissions and improving fuel quality. This initiative reflects the company's commitment to minimizing pollutants and enhancing environmental sustainability in the oil industry. Reducing the Sulphur contents in crude oil products (Naphtha, Kerosene, diesel) to reduce emissions from energy sector. This project will be applied in major refineries in Iraq by establishing multi units of Sulphur removal by using novel technique (AET ODS SULFEX). This project will be established along with our partner Alternative Environmental Technologies (AET).



### Pioneering Green Process for Seawater to Chemicals and Solar-Powered Solutions in South Iraq

Elite Core Contracting is proud to launch an innovative and transformative project in southern Iraq, focusing on utilizing seawater as a feedstock for a green chemical production process. This groundbreaking initiative marks a new era of sustainability for Iraq, addressing both chemical production and environmental responsibility.

## Key Project Highlights:



### 01 Seawater to Chemicals:

**Hydrogen Peroxide Production:** Our state-of-the-art facility will use seawater to produce hydrogen peroxide, an essential component in a wide range of industrial and environmental applications, including refining and water treatment.

**Caustic Soda and Ammonia:** The project will also generate caustic soda and ammonia, critical chemicals that serve various industries, from oil refining to agriculture. These chemicals will be produced in an environmentally sustainable manner, ensuring minimal environmental impact.

### 02 Drinking Water Production

In addition to chemical production, the facility will provide clean drinking water by desalinating seawater, addressing the pressing water scarcity issues in southern Iraq. This dual-purpose approach not only produces valuable chemicals but also contributes to solving the region's water challenges.





### 03 Green Energy Integration:

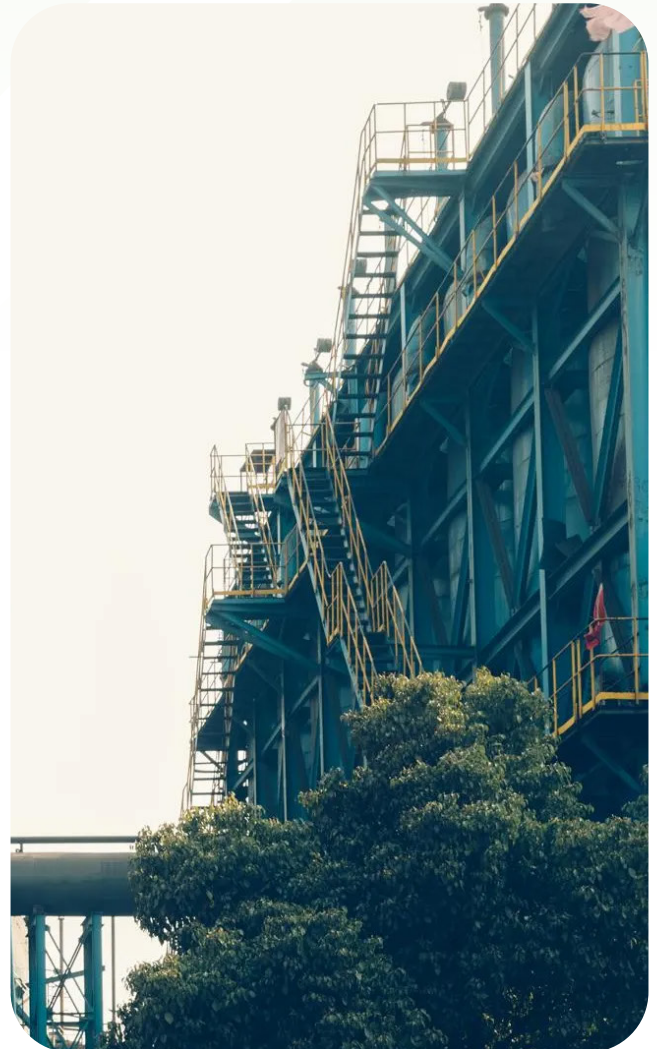
For the first time in Iraq, this project will incorporate 2 megawatts of solar power generated through solar panels. This renewable energy will be used to power the chemical plants, reducing dependency on fossil fuels and minimizing carbon emissions. The use of solar energy underscores our commitment to sustainability and cleaner energy alternatives.

### 04 A First for Iraq

This project represents a historic milestone as the first green chemical plant in Iraq. By using solar energy and environmentally friendly processes, Elite Core is setting a new standard for sustainability in the region’s chemical and industrial sectors.

Through this innovative project, Elite Core aims to demonstrate that green processes can meet industrial demands while protecting the environment. By providing critical chemicals, drinking water, and renewable energy, we are contributing to both the economic development and sustainability of Iraq.

This project stands as a testament to our commitment to leading the way in sustainable industrial solutions, and it will be a cornerstone in Iraq’s future efforts toward clean energy and environmental responsibility.





## **Monitoring Air Quality System**

Elite Core Contracting is planning to measure pollutants in urban areas to support Iraq's commitment to reducing emissions. They are actively working to establish partnerships with well-known companies in this field.

The goal is to continually report emission levels to the Ministry of Environment and address any weaknesses using the latest technology.

# Elite Core Contracting

## Driving Sustainability through Innovation and Green Solutions

At Elite Core Contracting, sustainability is at the heart of our mission. We are committed to upgrading crude oil products to Euro 5 standards by leveraging cutting-edge technologies like Sulfex. This revolutionary process significantly reduces sulfur content in diesel, leading to cleaner fuels and lower emissions.

This groundbreaking process allows us to reduce sulfur content not only in diesel but across a broad range of crude oil products, including naphtha, kerosene, gas oil, and lube oil. By enhancing the quality of these products, we ensure they meet stringent environmental standards, contributing to cleaner fuels and reducing harmful emissions.

Our approach doesn't stop at producing Euro 5 fuels. We aim to establish a closed-loop, green chemical process that utilizes the side products from the Sulfex process to feed a chemical plant designed for sustainable production. One of our key products is hydrogen peroxide, which is used in the Sulfex process itself, making our operation highly efficient and eco-friendly.



Additionally, the plant will also produce caustic soda and ammonia, essential chemicals that support various industries and further enhance the sustainability of our operations.

To ensure continuous progress toward sustainability, we are also focused on building a comprehensive monitoring system for emissions and air quality. By capturing valuable data, we will be able to map the road for cleaner energy production, meet regulatory requirements, and contribute to the global effort in reducing greenhouse gas emissions.

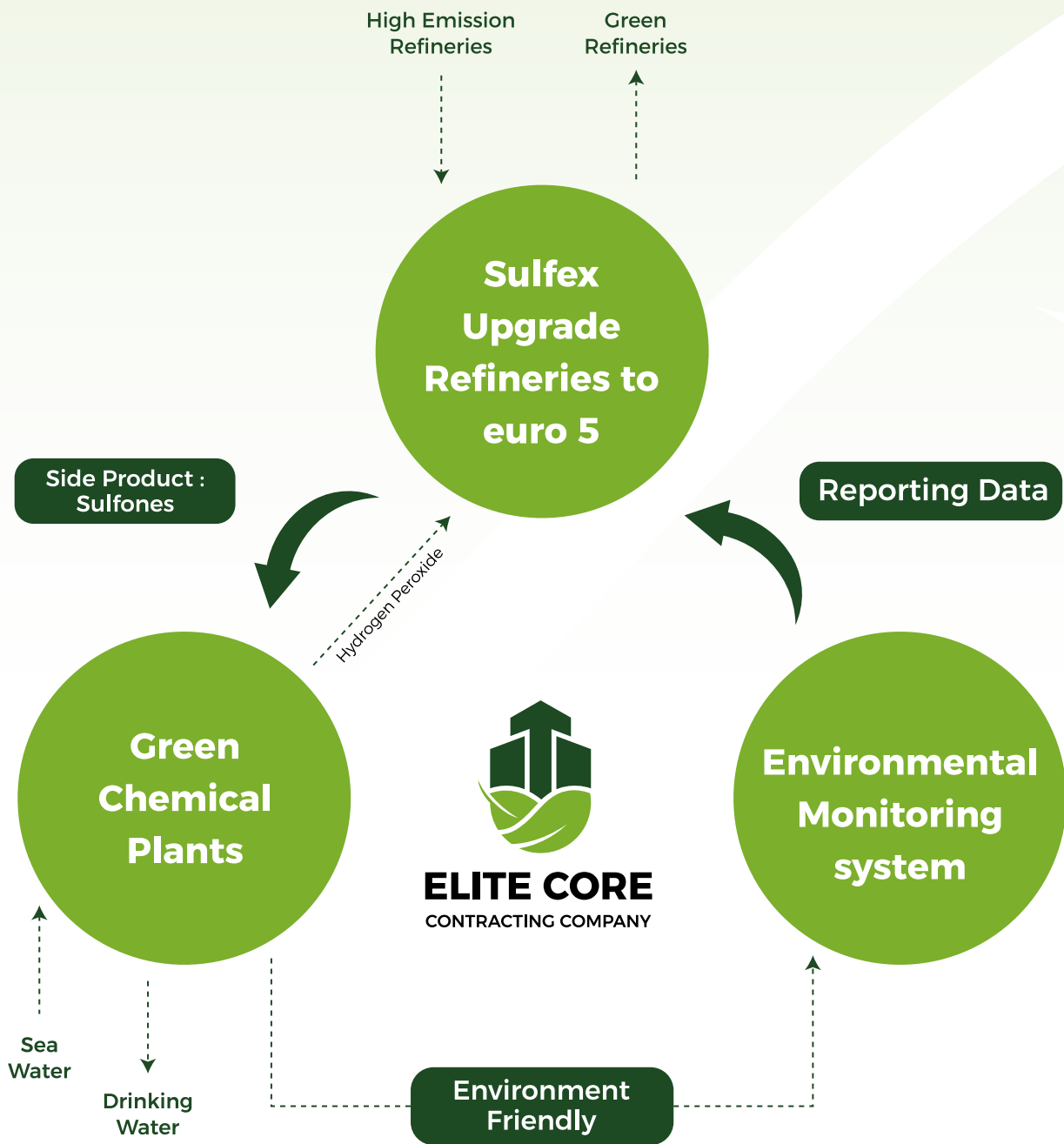
Our goal is to establish online monitoring system covers entire industries and road in Iraq.

Our integrated approach ensures that we not only produce cleaner fuels but also maximize the use of by-products and generate valuable insights to further improve environmental performance. Elite Core is dedicated to setting new standards for sustainability in the oil and gas industry, leading the way toward a cleaner and greener future.

As we move forward, Elite Core is expanding its portfolio of projects focused on enhancing sustainability and integrating green technologies. We aim to lead the industry in reducing carbon footprints, optimizing resources, and contributing to a cleaner environment.

Our dedication to innovation and green processes positions us at the forefront of the oil and gas sector's transition to a more sustainable future.







## Advancing Oil Refinery Upgrades and Emission Reduction

Iraq joined the CCAC in 2015, aiming to achieve its climate goals. They submitted an Intended Nationally Determined Contribution (INDC) ahead of the Paris Agreement and signed the agreement in December 2016. In the INDC, Iraq set ambitious targets to reduce GHG emissions by 15 percent below business-as-usual emissions by 2035.

# Objective , Future Work

Elite Core Contracting's primary objective is to upgrade oil refineries to Euro 5 standards, ensuring that crude oil products meet the highest environmental and fuel quality regulations. This significant upgrade involves the use of advanced technologies such as Sulfex, which effectively reduces the sulfur content in key products like diesel, naphtha, kerosene, and lube oil.



At the same time, we are committed to integrating cutting-edge technologies that focus on reducing emissions throughout the refining process. By employing innovative solutions, we aim to not only enhance the quality of refined products but also minimize the environmental impact associated with refinery operations.



To support these efforts, Elite Core is developing a networked air quality monitoring system.

This system will continuously measure emissions and air quality, ensuring that the effectiveness of implemented technologies is tracked and assessed in real time.

By monitoring pollutants in the atmosphere, we are able to evaluate the impact of our processes on the environment and make data-driven decisions to continually improve performance.



This integrated approach of process development and monitoring will allow us to maintain the highest standards of sustainability while providing a clear evaluation of the environmental benefits achieved through our technologies.

Our goal is to continually measure and assess the quality of emissions to ensure that every project contributes to a cleaner, greener future for Iraq and the global community.





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