



EGYPTIAN PETROCHEMICALS HOLDING COMPANY



VALUE ADDED, 2024. ANNUAL REPORT. AI-DRIVEN THE NEW WAY FORWARD



ACKNOWLEDGEMENT

In recognition of the dedicated efforts of
Eng. **Karim Badawi**,
Minister of Petroleum & Mineral Resources, in
driving the advancement of a sustainable and
innovative petrochemical industry in Egypt.

ECHEM's Management and Board of Directors
extend their deep appreciation and sincere
gratitude for his unwavering support and
visionary leadership, which have been
instrumental in achieving the company's
objectives and contributing to the growth of
the national economy.

His focus promoting green energy solutions,
and fostering sustainable development
continues to inspire progress across the sector,
ensuring that Egypt remains at the forefront of
environmentally responsible and economically
impactful industrial development.

Thank You

Content



I. **chairman's address**

II. **Mission, Vision and Core Value**

III. **Business Focus**

IV. **Quality, Health, Safety & Environmental Issues**

V. **Corporate Social Responsibility**

VI. **Financial Highlights**

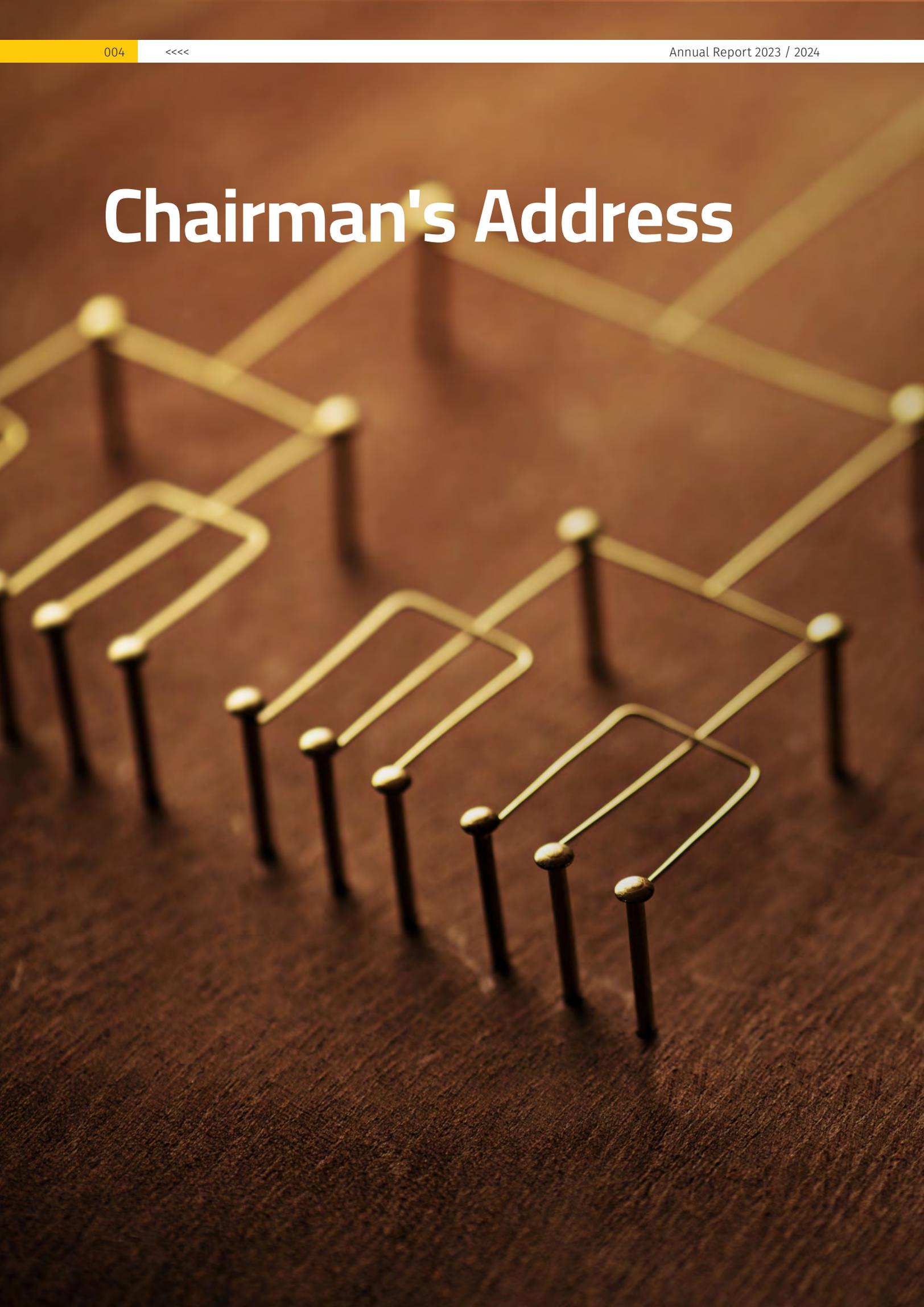
Echem At A Glance



The Egyptian Petrochemicals holding Company (Echem) was established on 22nd of January 2002 to develop the petrochemicals industry, thus maximizing the value of natural resources, promoting, supporting and monitoring the petrochemicals sector in Egypt.



Chairman's Address



In Egypt, the petrochemical sector has evolved significantly over the years, driven by continuous advancements and strategic collaboration across the value chain. The focus has always been on maximizing integration between upstream and downstream operations to enhance economic returns and support industrial growth. As global markets shift towards sustainability and innovative technologies, the petrochemical industry is witnessing transformative changes, including the emergence of new feedstock strategies that could reshape the sector's structure in key regions.

In this dynamic landscape, and as **ECHEM** moves forward in its third decade, we have redefined our strategy to align with **global trends** while capitalizing on Egypt's unique resources. This involves **not only** launching **new greenfield projects** but also **modernizing existing facilities** to improve efficiency and sustainability. Our commitment to these principles has enabled us to progress major projects, ensuring that we remain a key player in regional and international markets.

Reflecting on recent achievements, **ECHEM** has successfully advanced several strategic initiatives, including the **Technology Wood Project (Wotech)** and the **Soda Ash Production Plant**, which are designed to meet local demand and support national industries. Additionally, we have intensified our efforts in **green energy and sustainable solutions**, such as the **Green Ammonia Project** and **Sustainable Aviation Fuel (SAF) production**, reinforcing our commitment to environmental responsibility and economic diversification.

Looking ahead, our roadmap includes **projects integrated with existing plants**, alongside **a flagship greenfield initiative** aimed at introducing **new essential products** to the local market. These efforts will play a pivotal role in supporting **small and medium-sized enterprises (SMEs)**, fostering **industrial expansion**, and creating **valuable job opportunities**.

At **ECHEM**, we uphold the highest standards of **operational excellence, ethical responsibility, and sustainable development**. Our success is deeply rooted in our commitment to **social responsibility, environmental stewardship, technological partnerships, and fair competition**. As we navigate the future, we remain steadfast in our mission to drive innovation, enhance market integration, and contribute to **Egypt's vision for a prosperous and sustainable petrochemical industry**.

Eng. Ibrahim Mekki



President & Chairman



VISION

To be a major player in the petrochemicals industry through transforming Egypt into a regional petrochemicals hub.



MISSION

To develop a competitive petrochemicals industry based on local human and natural resources using state-of-the-art technology. We seek a high standard of performance, etching a prominent position in the competitive environment in which we exist and we aim to work closely with our partners and policy makers to advance more efficient and sustainable use of our natural resources.



CORE VALUES

We set a high standard of performance and ethical behaviors and our reputation is upheld by how we live up to our values. We believe that our long-term success and shareholders' benefits depend on our dedication to social responsibility, employee empowerment, technological partnership and integrity. Our future business will therefore be governed the very same values.





Business Focus

INVESTMENT

PROJECTS

OPERATIONS DEPUTY

HRD

ECHEM EVENTS

INVESTMENT



Egypt is solidifying its position as a pivotal hub in the global economy, offering preferential access to some of the largest and most affluent markets worldwide. With its growing economy and stable political framework, Egypt provides an attractive environment for sustainable business investments.

In line with this vision, Echem has developed and adopted strategic investment models to encourage participation in the petrochemical sector while ensuring profitability.

Echem's approach is designed to attract Foreign Direct Investment through equity participation, collaboration with international organizations, and access to financing via reputable local and international financial institutions.

Key elements of Echem's investment strategy include:

- Conducting comprehensive feasibility studies by globally recognized specialists to ensure investment security, credibility, and access to funding from reliable financial institutions.
- Securing project sites with potential for future expansion, providing proximity to utilities, feedstock sources, and export facilities.
- Offering competitive feedstock pricing.
- Establishing long-term off-take agreements to facilitate loan repayment
- Diversifying funding sources for project financing.
- Engaging in equity participation.
- Implementing effective and profitable exit strategies.



PROJECTS

PROJECT STATUS

- Project Company has been established.
- Permits & approvals have been obtained.
- Main contracts and agreements have been signed.
- Basic Engineering has been completed.
- EPC works are in-progress.

METHANOL DERIVATIVES PROJECT SMD COMPANY

PROJECT PURPOSE

- **87 KTA** Urea Formaldehyde (UFC **85%** & UF RESINS **65%**).
- **53 KTA** Sulphonated Naphthalene Formaldehyde (SNF)
- Using Methanol & Urea as feed stock (Available locally).
- Possibility of producing specialized Urea Formaldehyde Resins with a capacity of **42 KTA**.



ESTIMATED INVESTMENT COST

120 MILLION USD

PLANNED STARTUP **2025**

LOCATION

ECHEM LAND – **DAMIETTA PORT**





MEDIUM DENSITY FIBERBOARD PROJECT WOTECH COMPANY

PROJECT PURPOSE

- **205,000 M³/Y MDF**
- Using **250 KTA** of Rice Straw as feed stock (available Locally)

PROJECT STATUS

- Project Company has been established
- Permits and approvals have been obtained
- Main contracts and agreements have been signed
- Mechanical works have been completed
- First MDF board has been produced
- Commissioning and testing are being completed

ESTIMATED INVESTMENT
COST

351 Million EURO

PLANNED STARTUP
Q4, 2024

LOCATION

IDKU Industrial Zone

EL BEHEIRA

PETROCHEMICALS COMPLEX

RED SEA NATIONAL PETROCHEMICALS COMPANY



PROJECT PURPOSE

- **4 MM T/Y** petrochemicals and petroleum products
- USING **4 MM T/Y** imported Crude Oil as feed stock

PLANNED STARTUP
2030

LOCATION
SC ZONE – SUEZ

PROJECT STATUS

- Detailed feasibility study has been issued
- Project Company has been established
- Early works completed by **BECHTEL**.
- Process Design Package (PDP) for 14 Licenses have been issued
- Land contract has been signed
- Major permits are being obtained
- Negotiation with **EPC** contractors ongoing



BIO-ETHANOL PROJECT

EGYPTIAN BIOETHANOL COMPANY



PROJECT PURPOSE

- **100 KTA** of Bio-ethanol produced based on Beet Molasses
- **160 KTA** of Vinasse powder & **60 KTA** of CO₂ (food grade) as by-products.

ESTIMATED INVESTMENT COST
170 MILLION USD

PLANNED STARTUP **Q2, 2025**

LOCATION

ECHEM LAND - DAMIETTA PORT

PROJECT STATUS

- Project Company has been established
- Land Contract has been signed
- Major permits / Approvals have been obtained
- Main Contracts / Agreements have been signed
- Term sheet has been signed with local banks.
- Basic Engineering Design has been issued
- Negotiation with **EPC** contractor ongoing

METALLIC SILICON AND ITS DERIVATIVES PROJECT ALAMEIN FOR SILICON PRODUCTS COMPANY

PROJECT STATUS

- Project Company has been established
- Land contract has been signed
- Main feedstock supply agreement signed
- Permits and approvals are being obtained
- Selection of EPC contractor ongoing
- Securing finance for project in-progress

PROJECT PURPOSE

- Phase one: **45 KTA/Y** Metallurgical Silicon
 - Phase two: **60-100 KTA/Y** Silicon monomer
 - Phase three: **10 KTA/Y** Poly silicon
 - Phase four: Silicones Downstream Complex
-

ESTIMATED INVESTMENT COST

172 MILLION USD Phase 1

PLANNED STARTUP **2027**

LOCATION

ECHEM LAND - Industrial Zone

NEW ALAMEIN CITY

SODA ASH AND ITS DERIVATIVES PROJECT

ESAC COMPANY

PROJECT STATUS

- Project Company has been established
- Permits and approvals are being obtained
- Term Sheets for feedstock supply have been signed
- MOU's & Term sheets for marketing of the project products have been signed
- EPC Contract has been signed
- Securing finance for project in-progress



PROJECT PURPOSE

- Light Soda Ash **210 KTA**
- Dense Soda Ash **320 KTA**
- Sodium Bicarbonate: **50 KTA**
- Precipitated Silica **10 KTA**

ESTIMATED INVESTMENT COST

612 Million USD

PLANNED STARTUP **2027**

LOCATION

ECHEM LAND - Industrial Zone

NEW ALAMEIN CITY



ALAMEIN PETROCHEMICALS COMPLEX

PROJECT STATUS

- Detailed Feasibility Study has been completed
- Project Land allocated
- Project Company established
- The project is being promoted to the strategic investors

PROJECT PURPOSE

- **3.9 MMT/Y** Petrochemical Products
- **1MMT/Y** Petroleum Products
- Using **4 MM T/Y** of Crude Oil as feed stock.

ESTIMATED INVESTMENT COST

14 Billion USD

PLANNED STARTUP **2030**

LOCATION

ECHEM LAND - Industrial Zone

NEW ALAMEIN CITY

GREEN AMMONIA PROJECT

DAMIETTA COMPANY FOR GREEN AMMONIA

PROJECT STATUS

- Detailed Feasibility Study has been completed
- Project Company has been established
- Permits and approvals are being obtained
- Consultant is selected for preparation of Green House Gases Study
- Selection of Consultant is in-progress for Marine Jetty study
- Off take heads of terms signed

PROJECT PURPOSE

- **150 KTA** of green ammonia per annum
- **160 MW** of solar power and **340 MW** of wind
- **240 MW** pressurized alkaline electrolysers



ESTIMATED INVESTMENT COST

910 Million USD

PLANNED STARTUP **2027**

LOCATION

DAMIETTA



ALEXANDRIA FOR SUPPLY CHAIN COMPANY

PROJECT STATUS

- Feasibility Study has been completed
- Project Company has been established

PROJECT PURPOSE

- **300-1000 KTA** of received liquefied Ethane

ESTIMATED INVESTMENT COST

665 Million USD All phases

PLANNED STARTUP **2027**

Phase 1

LOCATION

Dekheila Port

Alexandria



SUSTAINABLE AVIATION FUEL PROJECT

SAF

PROJECT STATUS

- Detailed Feasibility Study has been completed
- Company establishment on going
- Term Sheets for feedstock supply have been signed
- LOI's from international companies have been received for product offtake.
- Securing finance for project in-progress

PROJECT PURPOSE

120 KTA of Sustainable aviation fuel per annum

ESTIMATED INVESTMENT COST
537 Million USD

PLANNED STARTUP **2029**

LOCATION

Alexandria



OPERATIONS DEPUTY

The petrochemicals industry plays a crucial role in the global economy, serving as a backbone for various sectors.

COMPANIES DEVELOPMENT & INTEGRATION DEPARTMENT

As a leading player in this dynamic field, our Egyptian Petrochemicals Holding Company stands at the forefront of innovation and sustainability, navigating the complexities of market demands, regulatory frameworks, and environmental challenges.

As we embark on a new fiscal year, we are committed to enhancing our operational efficiency and expanding our product portfolio to meet the evolving needs of our clients while minimizing our environmental footprint.

This year presents both challenges and opportunities, as we aim to leverage advancements in technology and shifts in consumer preferences.

Therefore, we will outline in this report our key initiatives, and the stage for a comprehensive review of our performance and strategic direction in the petrochemical landscape.

Together, we will navigate the complexities of this industry and strive for excellence in all our endeavors.

EGYPTIAN PETROCHEMICALS COMPANY (EPC)

- The project of supply and installation of a fifth polymerization reactor to increase the production of PVC to 100 KTA has been completed and the commercial operation has been achieved during January 2023
- Supply and installation of new caustic soda concentration unit with 150 % upgrade capacity than the old unit.
- Rehabilitation of the three Power station turbines. The project planned to be implemented in three phases and this year the rehabilitation for steam turbine has been completed during December 2023



EGYPTIAN LINEAR ALKYL BENZENE (ELAB)

- ITB is being issued for (PACOL) unit to expand the production capacity to reach 125 % of the existing capacity.
- The execution of converting HAB to LAB project to expand the production capacity by 5600 Ton annually has been completed and the commercial operation has been achieved during October 2023
- Construction of 4 new tanks with a storage capacity of 22,000 tons and the project is expected to be completed during November 2025



THE EGYPTIAN ETHYLENE & DERIVATIVES COMPANY (ETHYDCO)

ETHYDCO is planning to produce colored polyethylene product and during June 2024 Ethydcosuccess to achieve the ISO 9080 certificate



MISR FERTILLZER PRODUCTION COMPANY (MOPCO)

NDA has been prepared to be signed during this year while the Basic engineering study is under revision for CO₂ recovery unit integrated with urea plants revamp to expand the production capacity of Urea by 10%.





Energy Saving Cases:

EGYPTIAN LINEAR ALKYL BENZENE (ELAB)

Optimization of Hot Oil Heater Temperature:

By optimization operation condition and hot oil temperature energy saving achieved were calculated to equivalent to 450 Nm³/hr of natural gas compared with historical data, this led to savings up to 400,000\$ /year.

Change type of the blade for air coolers:

The first stage saved 340 MWH equivalent to 25,000 \$/Y.

The second stage expects to save 400-450 MWH by the end of year 2023 which is equivalent to 30,000-35,000 \$/year.



RENEWABLE ENERGY CASES:

MISR FERTILIZER PRODUCTION COMPANY (MOPCO)

Generate Electricity from renewable energy.

build solar cells to generate renewable energy "electricity" at the surfaces of administration building.

producing renewable energy from solar cells of 0.21 MWh and plans to increase it to 1.2 MWh using building surfaces.



EGYPTIAN LINEAR ALKYL BENZENE (ELAB)

Using solar panels in car parking Area.

This project under progress to constructed new solar cell at the car parking to use for lighting this area and take the benefit from the solar energy in the region, this area is up to 480 m²



MISR FERTILIZER PRODUCTION COMPANY (MOPCO)

Green Ammonia

MOPCO is sharing with ECHEM and Scatec to build a new plant to produce green hydrogen in Damietta using a renewable power “solar and wind” which will be built in a different location.

This Green hydrogen will be processed in the existing MOPCO 3 ammonia plant” after retrofitting” to produce up to 150,000 ton/y of green ammonia.

Decrease NOX emissions

MOPCO is currently producing AdBlue “DEF” as one of special urea products that is used in trucks to decrease NOX emissions.

CO₂ Capture unit from flue gas

MOPCO is currently in a basic engineering phase for CO₂ Capture unit from flue gas of primary reformer stack which will be used for increasing MOPCO three urea plants capacity by 195,000 ton/y of urea.



HRD

Human Resource Development

A DRIVER OF COMPETITIVE ADVANTAGE

Echem HR focuses on cultivating a skilled workforce and fostering an inclusive organizational culture that serves as a foundation for opportunity and excellence.

The HR strategy emphasizes transforming affiliates and operational units into dynamic Learning Organizations, empowering them to develop expertise, enhance knowledge, and implement best practices within the petrochemical industry.

As a vital contributor to Egypt's petrochemical sector, Echem acts as a "think tank" to address industry challenges. It facilitates collaboration among executives from its affiliate companies through workshops and training programs tailored to solve key issues and promote growth.

Echem HR's integration with affiliates centers on:

Identifying and addressing HR challenges to design optimal recruitment systems and develop top talent.

Promoting an innovative workplace culture that values creativity, diversity, and individual contributions.

Ensuring the workforce is equipped with the skills necessary for success, with a particular focus on empowering women and fostering gender equality.

HUMAN RESOURCES DEVELOPMENT

Echem prioritizes creating a sustainable HR framework by building a resilient team with the skills and experience necessary to overcome future challenges and deliver on business objectives.

The HR function is designed to attract, retain, and develop talent through comprehensive strategies that manage all aspects of the employee lifecycle, from recruitment to career progression and performance management.

Recognizing the critical role of women in today's workforce, Echem ensures equal opportunities and champions diversity to strengthen its human capital.



To ensure long-term success, Echem's Competency-Based Management initiative focuses on:

Developing a robust succession planning framework to prepare future leaders.

Streamlining selection and promotion processes to ensure transparency and fairness.

Designing career development programs aligned with organizational goals and competencies, fostering a sense of empowerment and growth for all employees.



EICHEM EVENTS CAPTURED





QHSE

Quality, Health, Safety & Environment



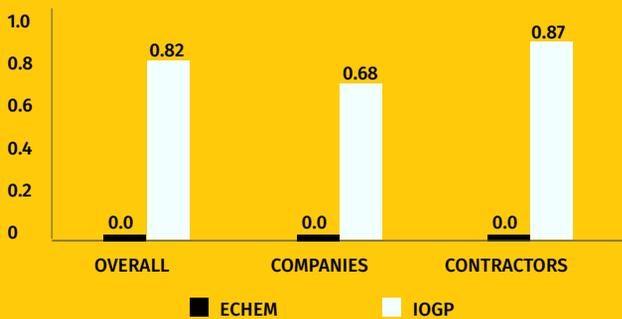
QUALITY IS THE PRIORITY OF WHAT WE DO IN OUR BUSINESS THROUGH THE PROCESS

ECHEM endeavors to maintain the highest and the strictest levels of environment, health and safety international codes and standards. Projects in the development phase, under execution or operating plants are kept under strict supervision for applying those standards. Moreover, support is provided when needed.



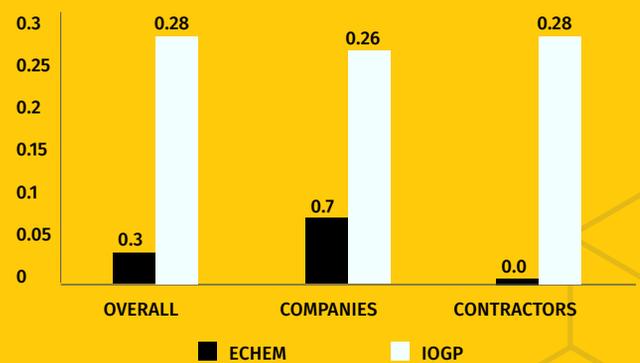
LIST	COMPANY	CONTRACTOR	OVERALL
Total Number of Working Hours	12836202 hr	14475956 hr	27312158 hr
Fatality/Serious Injuries	-	-	-
Lost Time Injuries (LTI)	1	-	1
Injuries (outside workplace).	-	-	-
Fatalities (outside workplace-Road)	1	1	2

(ECHEM) COMPANIES FATAL ACCIDENT RATE (FAR) COMPARING WITH (IOGP)



FAR	ECHEM	IOGP
Overall	0	0.82
Companies	0	0.68
Contractors	0	0.87

(ECHEM) COMPANIES LOST TIME INJURY FREQUENCY (LTIF) COMPARING WITH (IOGP)



LTIF	ECHEM	IOGP
Overall	0.03	0.24
Companies	0.07	0.22
Contractors	0	0.24

CSR

Social Responsibility Activities:

This document outlines a framework for social responsibility activities carried out during the fiscal year 2023/2024. The main focus areas include health, education, and social development, aligning with sustainable development goals.

Key Activities:

Collaboration with Subsidiaries:

Participating alongside subsidiaries in projects focused on sustainable development across health, educational, and social sectors.

Project Review and Alignment:

Reviewing proposed projects from subsidiaries to ensure they align with the Ministry's social responsibility strategy. Preparing these projects for submission to the Ministry's Technical Secretariat.

Updating Project Plans:

Coordinating with subsidiaries to update and amend project plans based on recommendations from the Ministry's Technical Secretariat, to ensure approval from the Higher Committee for Social Responsibility.

Follow-up and Monitoring:

Continuously monitoring and following up on the implementation of social responsibility initiatives by subsidiaries.

Periodic Reporting:

Preparing and submitting periodic reports to the Ministry detailing project completion rates, costs, categories, and the number of beneficiaries.

Meetings with Subsidiaries:

Organizing regular meetings with social responsibility officials from subsidiaries to ensure alignment and collaboration.

Field Participation:

Actively participating in events and coordinating on-the-ground social responsibility activities with subsidiaries.

Media Coordination:

Coordinating with the Media Department to upload information about completed projects to the company's public page, ensuring transparency and public awareness.

These activities help foster a structured approach to implementing and monitoring social responsibility projects while aligning with broader strategic goals set by the Ministry.

Home rehabilitation and development



Health



Education





93 316 16 108 30 23 101

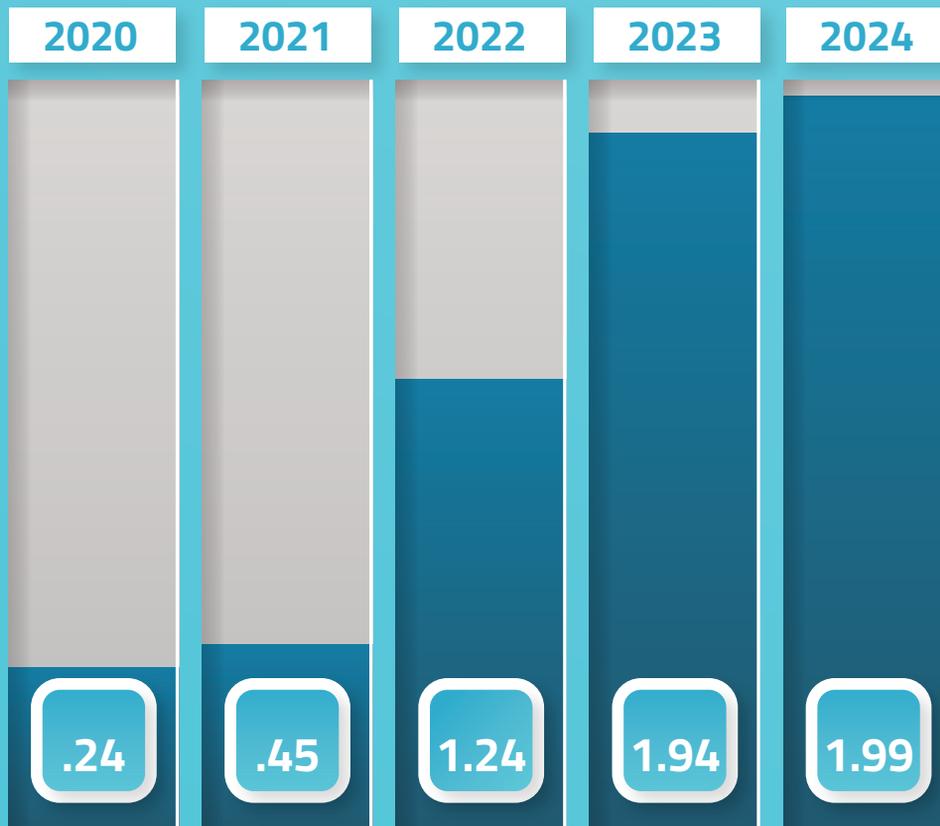


Financial highlights

FINANCIAL PERFORMANCE DEVELOPMENT 2020-2024

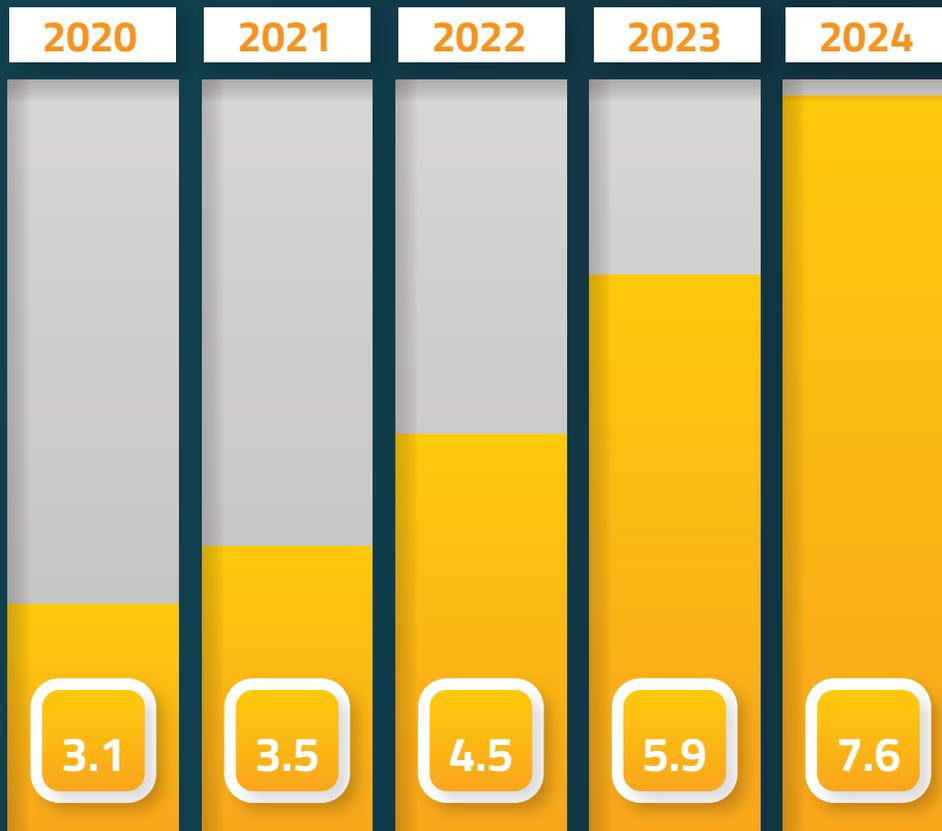
In Billion EGP

Investment Revenue Development



INVESTMENTS DEVELOPMENT

3,8 Billion EGP



INVESTMENTS IN NEW COMPANIES

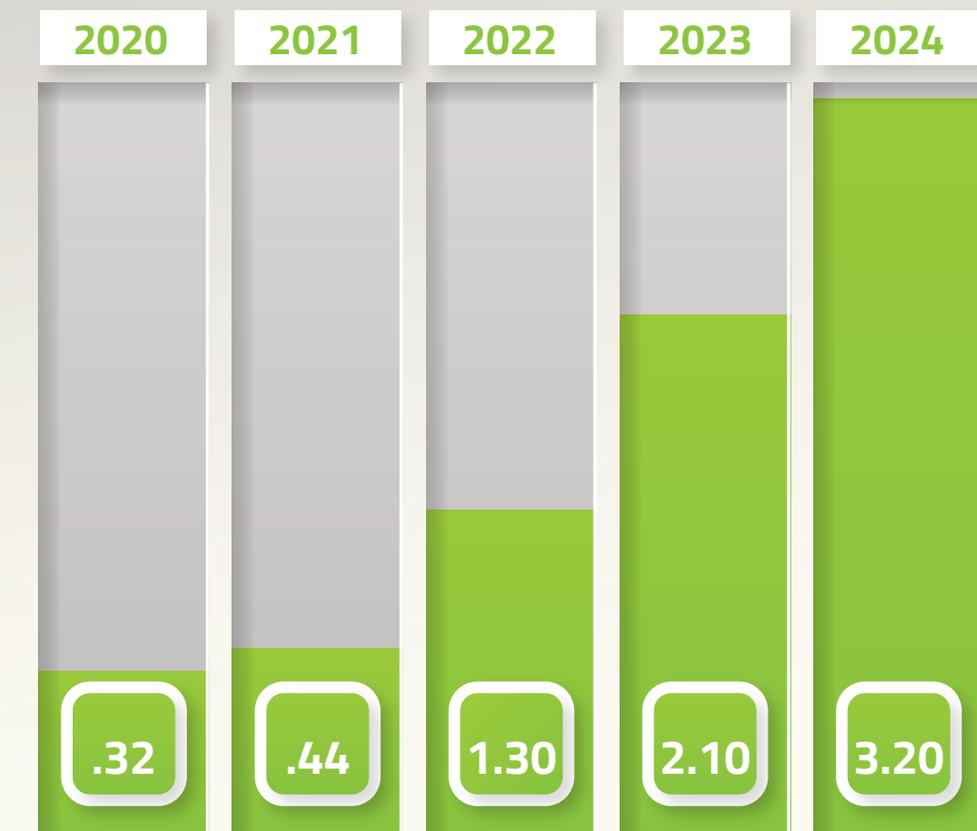
3,8 Billion EGP





Net Profit Development

In Billion EGP



*Our Resources ... Our Treasures
We Strive To
Make The Most Of What We Have*



EGYPTIAN PETROCHEMICALS HOLDING COMPANY

27 El Salam Avenue - El Lotus Area - 5th Settlement - New Cairo - Egypt

Tel: +20 275 98 300 Fax: +2 275 98 364

Website: www.echem-eg.com