THE ORGANISER

Hydrogen Egypt



Organiser of the Hydrogen Industry Summit 2026 (HIS2026)

22 November 2026 · Arab Contractors Club, Qoba Hall, Cairo · third edition after HES2023 and H2MED 2025



Eng. Khaled Nageib
Chief Executive Officer, Hydrogen Egypt



Dr. Dalia Samir
Co-Founder and Business Development Director, Hydrogen Egypt

PROGRAMME

Revised agenda at a glance — 22 November 2026

22 NOVEMBER 2026 · CAIRO

Time	Session	Moderator(s)	Room	Speakers
08:00 – 08:30	Registration			
08:30 – 09:00	I-1 Official Opening Ceremony	Khaled Nageib & Dr. Dalia Samir	Main hall	5
09:00 – 09:40	I-2 Why Hydrogen Now? Climate, Energy Security and Geopolitics	Alan Haigh	Main hall	6
09:40 – 10:30	I-3 Keynote Fireside and Post-COP31: From Antalya to the Sun and the Nile to Cairo Implementation	Khaled Nageib	Main hall	7
10:30 – 11:25	II-1 European and International Demand: Derivatives, Certification and Long-Term Offtake	Patrick Cnubben	Main hall	6
11:25 – 12:30	II-2 Egyptian Industrial Demand and the Path to Offtake: Steel, Fertilisers, Refining, Pilots and Supply Agreements	Ahmed Hussien	Main hall	10
12:30 – 12:50	Coffee break & networking			
12:50 – 13:35	III-1 Egypt's Renewable Energy Potential: From Green Electrons to Green Molecules and the Geographical Mismatch	Mohamed AbdelSattar Madkour	Main hall	8
13:35 – 14:25	IV-1 EU–Egypt Policy Alignment: Regulation, CBAM, Certification, MRV and Carbon Markets	Alan Haigh	Main hall	10
14:25 – 15:00	IV-2 Industrial Decarbonisation Beyond CBAM / The Hydrogen Value Chain: Local Manufacturing, Infrastructure and Corridors	Patrick Cnubben	Main hall	10
15:00 – 15:30	Networking lunch			
15:30 – 16:15	V-1 + V-2 Ports, Shipping and Future Fuels / Hydrogen Mobility and Transport	Raphael Schoentgen & Khaled Nageib	Main hall	11
16:25 – 17:00	VI-3 Closed-Door Investor–Developer Roundtable: Financing Egypt's Hydrogen Pipeline	Dr. Ibrahim Abdel Khalek	Workshop room (closed door)	14
17:10 – 17:20	Short break			
17:20 – 17:55	VI-4 Flagship Projects: From Pilot to Commercial Scale	Ahmed Hussien	Main hall	8
17:55 – 18:35	VI-1 Making Industrial Hydrogen Bankable: Heavy Industry and CBAM — Cement and Hard-to-Abate Retrofit	Khaled Nageib	Main hall	8
18:35 – 19:00	VI-5 Closing Leadership Roundtable: Commitments, Named Actions and Timelines	Khaled Nageib & Patrick Cnubben & Raphael Schoentgen	Main hall	5

I-1 | 08:30 – 09:00 · Cairo time | MAIN HALL

Official Opening Ceremony

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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MODERATORS



Eng. Khaled Nageib

CEO, Hydrogen Egypt



Dr. Dalia Samir

Co-Founder and Business Development Director, Hydrogen Egypt

KEY TOPICS

Egypt's vision as a hydrogen and green-industry hub • Host and government commitments • Industrial decarbonisation • ELS Local manufacturing • International cooperation • EU-Egypt Cooperation

WELCOME REMARKS — ABOUT 3 MINUTES FROM EACH GUEST PRESENT



H.E. Dr. Mohamed Farid Saleh

Minister of Investment



Dr. Hussein El Ghazzawy

Adviser to the Minister of Industry for Energy Affairs



Eng. Ahmed El Assar

CEO, Arab Contractors — Main Host & Strategic Partner



Dr. Sherif El Gabaly

Chairman, ECO FEI



Mr. Krzysztof Kuik

Director, Clean Planet, European Commission

VIDEO MESSAGE

The Arab Contractors

FEDERATION OF EGYPTIAN INDUSTRIES

European Commission

STRATEGIC PURPOSE

Open the summit with a clear message: Egypt's hydrogen opportunity is moving from strategy to implementation, and the host, ministries and partners are ready to deliver.

INTENDED OUTCOME

A shared statement of Egypt's implementation priorities that frames the demand, supply and policy sessions that follow.

I-1 08:30 – 09:00 · Cairo time

QUESTIONS FOR THE SPEAKERS

Official Opening Ceremony

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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WELCOME REMARKS — ABOUT 3 MINUTES FROM EACH GUEST PRESENT

MODERATORS: ENG. KHALED NAGEIB & DR. DALIA SAMIR



H.E. Dr. Mohamed Farid Saleh

Minister of Investment

1. What investment framework will Egypt offer to hydrogen projects with identified buyers?
2. What must change between COP31 commitments and signed projects in the next 12 months?
3. Which industrial sectors should anchor Egypt's first hydrogen demand?



Dr. Hussein El Ghazzawy

Adviser to the Minister of Industry for Energy Affairs

1. What policy steps is the Ministry of Industry considering to support low-carbon industry?
2. What should an Egyptian exporter do now to be CBAM-ready?
3. Which regulatory change would unlock the most investment?



Eng. Ahmed El Assar

CEO, Arab Contractors — Main Host & Strategic Partner

1. As host, what does the Arab Contractors' role look like in building Egypt's hydrogen infrastructure?
2. What must change between COP31 commitments and signed projects in the next 12 months?
3. Which industrial sectors should anchor Egypt's first hydrogen demand?



Dr. Sherif El Gabaly

Chairman, ECO FEI

1. What do Egyptian industrial companies need from this summit to start decarbonising?
2. What must change between COP31 commitments and signed projects in the next 12 months?
3. Which industrial sectors should anchor Egypt's first hydrogen demand?



Mr. Krzysztof Kuik

Director, Clean Planet, European Commission

VIDEO MESSAGE

1. What is the European Commission's message to Egypt on cooperation for hydrogen after COP31?
2. What would make this summit a success for your institution a year from now?
3. What must change between COP31 commitments and signed projects in the next 12 months?

I-2 09:00 – 09:40 · Cairo time MAIN HALL

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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Why Hydrogen Now? Climate, Energy Security and Geopolitics

MODERATOR



Alan Haigh

Active Senior / DDG1, RTD, European Commission

KEY TOPICS

Global warming and climate risk • Energy security and geopolitics • Industrial competitiveness • Corporate climate action, ESG and ISO 50001 • Carbon management and carbon data • Why Egypt

SPEAKERS



Dr. Hussein El Ghazzawy

Adviser to the Minister of Industry for Energy Affairs



Dr. Nermine Abulata

Senior Advisor to the Egyptian Vice Prime Minister and Minister of Industry



Eman Abdel Mohsen

National Project Coordinator, UNIDO



Ahmed Kamal Abdel Moneim

Executive Director, Environmental Compliance Office; FEI Technical Advisor



Alshaimaa Hussien Shafey

Senior RE/EE Specialist, RCREEE — ISO 50001 Auditor, GASCO



Raphael Schoentgen

CEO, Hydrogen Advisors

STRATEGIC PURPOSE

Explain the drivers behind hydrogen investment — climate risk, energy security, industrial competitiveness and geopolitics — and what they mean for companies that must decide in the next 12 months.

INTENDED OUTCOME

A clear statement of the business case for hydrogen now, linking global drivers to Egyptian industrial and procurement decisions.

I-2 09:00 – 09:40 · Cairo time

QUESTIONS FOR THE SPEAKERS

Why Hydrogen Now? Climate, Energy Security and Geopolitics

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SPEAKERS

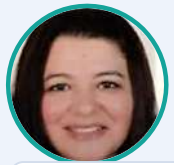
MODERATOR: ALAN HAIGH



Dr. Hussein El Ghazzawy

Adviser to the Minister of Industry for Energy Affairs

1. What policy steps is the Ministry of Industry considering to support low-carbon industry?
2. What should an Egyptian exporter do now to be CBAM-ready?
3. Which regulatory change would unlock the most investment?



Dr. Nermine Abulata

Senior Advisor to the Egyptian Vice Prime Minister and Minister of Industry

1. Which priorities of Egypt's industrial strategy should low-carbon hydrogen support first, and what is the Ministry's next step? †
2. How does energy security change the case for green molecules?
3. What should industrial companies do in the next 12 months to turn pledges into delivery?



Eman Abdel Mohsen

National Project Coordinator, UNIDO

1. From UNIDO's project work, what turns industrial climate commitments into funded decarbonisation projects?
2. How does energy security change the case for green molecules?
3. What should industrial companies do in the next 12 months to turn pledges into delivery?



Ahmed Kamal Abdel Moneim

Executive Director, Environmental Compliance Office; FEI Technical Advisor

1. What compliance support do Egyptian industrial firms need most?
2. What is needed for mutual recognition of certification?
3. What should an Egyptian exporter do now to be CBAM-ready?



Alshaimaa Hussien Shafey

Senior RE/EE Specialist, RCREEE — ISO 50001 Auditor, GASCO

1. How do renewable energy and efficiency measures fit alongside hydrogen as a response to energy security?
2. Which COP31 outcome matters most for hydrogen investment decisions in Egypt?
3. How does energy security change the case for green molecules?



Raphael Schoentgen

CEO, Hydrogen Advisors

1. What do international hydrogen developers and investors need to see before committing to Egypt in the next 12 months? †
2. How does energy security change the case for green molecules?
3. Which COP31 outcome matters most for hydrogen investment decisions in Egypt?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

I-3 | 09:40 – 10:30 · Cairo time | MAIN HALL

Keynote Fireside and Post-COP31: From Antalya to the Sun and the Nile to Cairo Implementation

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MODERATOR



Eng. Khaled Nageib

CEO, Hydrogen Egypt

KEY TOPICS

Ancient Egypt, the sun and the Nile • From traditional energy to renewables and green molecules • Hydrogen valleys (Valley of Ra, TRIERES, Türkiye) and natural hydrogen • COP31 host-country perspective • Carbon markets and sustainable finance • Investment incentives • Egypt–Türkiye–Europe cooperation

FIRESIDE GUESTS (VALLEYS AND STRATEGY) · COP31 AND IMPLEMENTATION SPEAKERS



Patrick Cnubben

CEO, Hydrogen Architects



Dr. Sergey Frolov

Turkish H2 Valley



H.E. Salih Mutlu Şen

Ambassador of Türkiye to Egypt



Suzi Erdogan

Secretary, Uluslararası Çevre İletişim Derneği (UÇİD)



Tuba Onur

Founder, Hyvise H2



Sinan Yildirim

Resilience Leader, Turkish Armed Forces



Dr. Mahmoud Saber Osman

Assistant Minister for Sustainability & Head of Climate Change Department, EEAA

ONLINE

Hyvise H2

Turkish Armed Forces

STRATEGIC PURPOSE

Place Egypt's hydrogen ambition in historical and strategic context and introduce the Hydrogen Valley of Ra and its partner valleys; then hear from Türkiye, the COP31 host, and Egyptian officials what the Antalya outcomes mean for hydrogen investment, carbon markets and Türkiye–Egypt cooperation.

INTENDED OUTCOME

A common narrative for the day, a first set of valley-to-valley cooperation points, and Turkish and Egyptian points of cooperation on hydrogen and carbon markets, with a clear view of what investors can rely on.

I-3 09:40 – 10:30 · Cairo time

QUESTIONS FOR THE SPEAKERS

Keynote Fireside and Post-COP31: From Antalya to the Sun and the Nile to Cairo Implementation

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FIRESIDE GUESTS (VALLEYS AND STRATEGY) · COP31 AND IMPLEMENTATION SPEAKERS · PART 1 OF 2

MODERATOR: ENG. KHALED NAGEIB



Patrick Cnubben

CEO, Hydrogen Architects

1. How can the TRIERES valley in Greece be linked with Egypt's Valley of Ra as a Greece–Egypt–Europe hydrogen corridor?
2. What does the Valley of Ra need from European and Turkish valley partners?
3. How do hydrogen valleys connect renewable supply to real industrial demand?



Dr. Sergey Frolov

Turkish H2 Valley

1. How should hydrogen valleys coordinate policy, including the natural hydrogen opportunity?
2. What single decision in the next 12 months would move valleys from concept to construction?
3. What does the Valley of Ra need from European and Turkish valley partners?



H.E. Salih Mutlu Şen

Ambassador of Türkiye to Egypt

1. What were the main outcomes of COP31 in Antalya, and what do they mean for cooperation with Egypt?
2. What COP31 follow-up mechanisms can Egypt and Türkiye use jointly?
3. How do carbon-market outcomes affect hydrogen project revenues?



Suzi Erdogan

Secretary, Uluslararası Çevre İletişim Derneği (UÇİD)

1. What do COP31 outcomes mean for hydrogen, carbon management and industrial decarbonisation?
2. How do carbon-market outcomes affect hydrogen project revenues?
3. What would a first joint Türkiye–Egypt hydrogen project look like?

I-3 09:40 – 10:30 · Cairo time

QUESTIONS FOR THE SPEAKERS

Keynote Fireside and Post-COP31: From Antalya to the Sun and the Nile to Cairo Implementation

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FIRESIDE GUESTS (VALLEYS AND STRATEGY) · COP31 AND IMPLEMENTATION SPEAKERS · PART 2 OF 2

MODERATOR: ENG. KHALED NAGEIB



Tuba Onur

Founder, Hyvise H2

Hyvise H2

1. What do COP31 outcomes mean for hydrogen entrepreneurs and investors?
2. What would a first joint Türkiye–Egypt hydrogen project look like?
3. What COP31 follow-up mechanisms can Egypt and Türkiye use jointly?



Sinan Yildirim

Resilience Leader, Turkish Armed Forces

Turkish Armed Forces ONLINE

1. How does resilience and security thinking shape the case for hydrogen?
2. How do carbon-market outcomes affect hydrogen project revenues?
3. What would a first joint Türkiye–Egypt hydrogen project look like?



Dr. Mahmoud Saber Osman

Assistant Minister for Sustainability & Head of Climate Change Department, EEAA

1. What does Egypt's climate department see as the next steps after COP31?
2. What would a first joint Türkiye–Egypt hydrogen project look like?
3. What COP31 follow-up mechanisms can Egypt and Türkiye use jointly?

II-1 | 10:30 – 11:25 · Cairo time | MAIN HALL

European and International Demand: Derivatives, Certification and Long-Term Offtake

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MODERATOR



Patrick Cnubben

CEO, Hydrogen Architects

KEY TOPICS

European demand for hydrogen, ammonia, methanol and SAF • Import requirements and sustainability criteria • H2Global-type tenders • Long-term offtake • Mediterranean trade • Spanish and Andalusian cluster demand • Egyptian–German cooperation (H2Uppp)

SPEAKERS



Jorgo Chatzimarkakis

CEO, Hydrogen Europe

ONLINE



Timo Bollerhey

CEO, H2Global

ONLINE



Nuria Cano

Partner, EDAIR Technologies



Raúl Pastor García

H2 Nostrum (and/or Nuria Cano)

GIZ representative

Egyptian–German Green Hydrogen Partnership / H2Uppp

NAME TBC



Eman Abdel Mohsen

National Project Coordinator, UNIDO

STRATEGIC PURPOSE

Show what European buyers need — volumes, certification, carbon accounting and contract structures — to buy Egyptian hydrogen and derivatives.

INTENDED OUTCOME

A buyer-side requirements checklist for Egyptian developers.

II-1 · 10:30 – 11:25 · Cairo time

QUESTIONS FOR THE SPEAKERS

European and International Demand: Derivatives, Certification and Long-Term Offtake

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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SPEAKERS

MODERATOR: PATRICK CNUBBEN



Jorgo Chatzimarkakis

CEO, Hydrogen Europe

ONLINE

1. What volumes of low-carbon hydrogen and derivatives does Europe need to import, and on what terms?
2. What contract terms do European buyers accept for Egyptian supply?
3. Which certification and carbon-accounting rules decide market access?

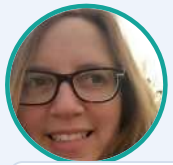


Timo Bollerhey

CEO, H2Global

ONLINE

1. How could an H2Global-type tender work for Egyptian supply?
2. Which certification and carbon-accounting rules decide market access?
3. What volumes and timeline should Egyptian developers plan for?



Nuria Cano

Partner, EDAIR Technologies

1. What did you learn from H2MED 2025 about Spanish demand and Egyptian ports?
2. What is the biggest misunderstanding about European demand?
3. What contract terms do European buyers accept for Egyptian supply?



Raúl Pastor García

H2 Nostrum (and/or Nuria Cano)

1. What do Spanish industrial and port partners need to move on Egypt–Spain hydrogen trade?
2. What contract terms do European buyers accept for Egyptian supply?
3. Which certification and carbon-accounting rules decide market access?

GIZ representative

Egyptian–German Green Hydrogen Partnership / H2Uppp

NAME TBC

1. What has the Egyptian–German Green Hydrogen Partnership (H2Uppp) achieved so far, and what should developers do next? †
2. What contract terms do European buyers accept for Egyptian supply?
3. Which certification and carbon-accounting rules decide market access?



Eman Abdel Mohsen

National Project Coordinator, UNIDO

1. What policy and capacity gaps do industrial firms face when adopting low-carbon technologies?
2. Which regulatory change would unlock the most investment?
3. Where are EU and Egyptian rules aligned today, and where are the gaps?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

II-2 | 11:25 – 12:30 · Cairo time | MAIN HALL

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Egyptian Industrial Demand and the Path to Offtake: Steel, Fertilisers, Refining, Pilots and Supply Agreements

MODERATOR



Ahmed Hussien

Process Optimization — Energy Efficiency, EnMS National Expert, ECHEM (MOPCO)

KEY TOPICS

Direct reduction and steel • Ammonia and fertilisers • Refining and petrochemicals • CBAM exposure • Utilities and process heat • Hydrogen supply agreements • Pilots and demonstrations • Retrofit assessments and plant automation • Risk allocation • Realistic hydrogen prices

INDUSTRIAL BUYERS AND TECHNICAL PARTNERS



Osama AbdelRahman

Chairman, MOPCO



Sameh Talaat

CEO, Kima Aswan



Dr. Zeinab Ibrahim Tawfik

Petrochemical Engineer, Carbon Footprint Verifier, ISO 50001 Lead Auditor



Mr. Xie Jun

Senior Expert, MCC CERI (with Mr. Wang Jiajun, Account Manager)

SUPPLIERS, DEVELOPERS AND ADVISERS



Paul Pinkerton

Commercial Director, INFIVERDE



Alan Talib

CEO, Nord Gulf Alliance



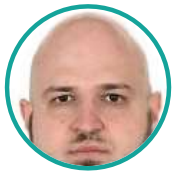
Baraa El Saharty

Managing Director, Axera Solutions — Independent Technical Advisory



Ossama Maguid

VP Africa, Yokogawa



Lachezar Tsenov

Director of Business Development and Strategic Partnerships, HYDROGENERA



Wesam Alghamdi

CEO, NEOM Green Hydrogen Company (NGHC), Saudi Arabia

II-2 · 11:25 – 12:30 · Cairo time

QUESTIONS FOR THE SPEAKERS

Egyptian Industrial Demand and the Path to Offtake: Steel, Fertilisers, Refining, Pilots and Supply Agreements

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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INDUSTRIAL BUYERS AND TECHNICAL PARTNERS · PART 1 OF 2

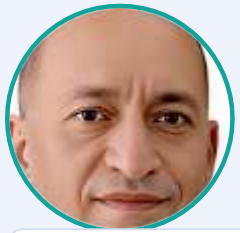
MODERATOR: AHMED HUSSIEN



Osama AbdelRahman

Chairman, MOPCO

1. What does CBAM mean for MOPCO's export strategy, and how could hydrogen help?
2. What hydrogen volumes and delivered prices make a first commitment realistic?
3. What must suppliers guarantee on quality, continuity and certification?



Sameh Talaat

CEO, Kima Aswan

1. What would green ammonia supply need to look like for Kima Aswan?
2. What must suppliers guarantee on quality, continuity and certification?
3. What does CBAM change in your cost of doing business?



Dr. Zeinab Ibrahim Tawfik

Petrochemical Engineer, Carbon Footprint Verifier, ISO 50001 Lead Auditor

1. How should plants measure and verify emissions to show a credible reduction from hydrogen?
2. What does CBAM change in your cost of doing business?
3. What is the smallest pilot you would run first?



Mr. Xie Jun

Senior Expert, MCC CERI (with Mr. Wang Jiajun, Account Manager)

1. What can MCC CERI contribute to Egyptian hydrogen projects in engineering and technology, and with which local partners? †
2. What does a buyer need to see before trusting a new local supplier?
3. What is the smallest credible first step for a plant manager?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

II-2 · 11:25 – 12:30 · Cairo time

QUESTIONS FOR THE SPEAKERS

Egyptian Industrial Demand and the Path to Offtake: Steel, Fertilisers, Refining, Pilots and Supply Agreements

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SUPPLIERS, DEVELOPERS AND ADVISERS · PART 2 OF 2

MODERATOR: AHMED HUSSIEN



Paul Pinkerton

Commercial Director, INFIVERDE

1. How do engineering, due diligence and risk reduction turn a concept into a bankable project?
2. What is the smallest credible first step for a plant manager?
3. How should price and volume risk be shared between buyer and supplier?



Alan Talib

CEO, Nord Gulf Alliance

1. What would your group need to see before committing to an offtake arrangement?
2. What do you need from an industrial buyer before you commit resources?
3. What is the smallest credible first step for a plant manager?



Baraa El Saharty

Managing Director, Axera Solutions — Independent Technical Advisory

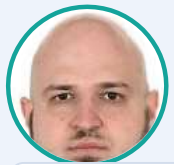
1. As an independent technical adviser, how should a plant assess a hydrogen retrofit?
2. What is the smallest credible first step for a plant manager?
3. How should price and volume risk be shared between buyer and supplier?



Ossama Maguid

VP Africa, Yokogawa

1. What does automation and control add to safety and cost of hydrogen plants?
2. What standards and safety rules must local suppliers meet?
3. What does a buyer need to see before trusting a new local supplier?



Lachezar Tsenov

Director of Business Development and Strategic Partnerships, HYDROGENERA

1. What partnership model does HYDROGENERA propose for cement hydrogen projects?
2. What retrofit cost and CO2 saving would justify a pilot?
3. What would make a project bankable for a lender?



Wesam Alghamdi

CEO, NEOM Green Hydrogen Company (NGHC), Saudi Arabia

1. What did NEOM Green Hydrogen Company learn from pilot to commercial scale that Egyptian offtakers should know? †
2. What must suppliers guarantee on quality, continuity and certification?
3. What hydrogen volumes and delivered prices make a first commitment realistic?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

III-1 | 12:50 – 13:35 · Cairo time | MAIN HALL

Egypt’s Renewable Energy Potential: From Green Electrons to Green Molecules and the Geographical Mismatch

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MODERATOR



Mohamed AbdelSattar Madkour

Overseas Business Development, Windey Energy

KEY TOPICS

Solar PV, onshore wind and hybrids • Resource quality and locations • LCOE vs contracted PPA vs delivered electricity • Grid connection, transmission, storage and curtailment • Electrolyser efficiency, capex and load factor • LCOH vs industrial-gate vs delivered cost • Upper Egypt and Gulf of Suez generation vs Delta and Suez Canal demand • Electrons vs molecules • Land, permitting and incentives • Information sharing

SPEAKERS



Dr. Ehab Ismail

Chairman, New and Renewable Energy Authority (NREA)



Afaf Abdelrahman Habib

Solar Design Manager, Infinity Power (IPH)



Marawan Assar

Scatec



Dolf Gielen

Senior Energy Economist, World Bank



Dr. Ibrahim Kshanh

Energy & Sustainability Expert, ECHEM



Dr. Samir ElKaraeish

Former OPAEC Director, Ex EGAS Officer



Dr. Mostafa Shaykoun

Chairman, SCZone — or an SCZone delegate



Mohamed Ahmed Ibrahim

Chairman, Golden Triangle Economic Authority (GTE)

ONLINE

OR SCZONE DELEGATE

OPAEC · EGAS (former)

STRATEGIC PURPOSE

Show what renewable electricity really costs in Egypt, how that cost becomes the cost of green hydrogen, and how the gap between resource-rich regions and industrial demand centres should shape project location and infrastructure.

INTENDED OUTCOME

An agreed reading of Egyptian electricity and hydrogen cost ranges and their limits, and a decision framework for plant location and shared infrastructure.

Egypt's Renewable Energy Potential: From Green Electrons to Green Molecules and the Geographical Mismatch

PART 1 OF 2

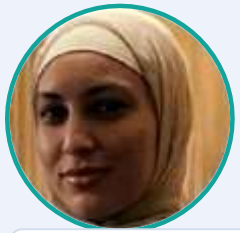
MODERATOR: MOHAMED ABDELSATTAR MADKOUR



Dr. Ehab Ismail

Chairman, New and Renewable Energy Authority (NREA)

1. Which parts of Egypt have the best solar and wind resources, and how is NREA planning for hydrogen projects?
2. What is the difference between a modelled LCOE and a contracted PPA price?
3. What grid and connection costs sit between the PPA and the electrolyser?



Afaf Abdelrahman Habib

Solar Design Manager, Infinity Power (IPH)

1. What solar electricity cost can Egypt really deliver to an electrolyser, and what drives it?
2. What grid and connection costs sit between the PPA and the electrolyser?
3. Which single variable moves Egyptian hydrogen cost the most?



Marawan Assar

Scatec

1. What are real renewable power prices and capacity factors in your Egyptian projects, and what is the limit of disclosing them?
2. What grid and connection costs sit between the PPA and the electrolyser?
3. Which single variable moves Egyptian hydrogen cost the most?



Dolf Gielen

Senior Energy Economist, World Bank

ONLINE

1. How does published analysis, including the OECD range for Egypt, explain differences in hydrogen cost estimates?
2. What cost is acceptable to an Egyptian industrial user at the plant gate?
3. What is the difference between a modelled LCOE and a contracted PPA price?

III-1 12:50 – 13:35 · Cairo time

QUESTIONS FOR THE SPEAKERS

Egypt's Renewable Energy Potential: From Green Electrons to Green Molecules and the Geographical Mismatch

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

PART 2 OF 2

MODERATOR: MOHAMED ABDELSATTAR MADKOUR



Dr. Ibrahim Kshanh

Energy & Sustainability Expert, ECHEM

1. What should energy users know about the difference between LCOE, LCOH and delivered cost?
2. What grid and connection costs sit between the PPA and the electrolyser?
3. Which single variable moves Egyptian hydrogen cost the most?



Dr. Samir ElKaraeish

Former OPAEC Director, Ex EGAS Officer

OPAEC · EGAS (former)

1. From gas-network experience, which assets can be reused for hydrogen between south and north?
2. Who finances and builds shared infrastructure?
3. What shared infrastructure should the corridors use?



Dr. Mostafa Shaykoun

Chairman, SCZone — or an SCZone delegate

OR SCZONE DELEGATE

1. What infrastructure can the Suez Canal Economic Zone offer hydrogen industrial clusters?
2. What shared infrastructure should the corridors use?
3. How can Africa and the Arab region join Egypt–EU supply chains?



Mohamed Ahmed Ibrahim

Chairman, Golden Triangle Economic Authority (GTE)

1. How can the Golden Triangle region connect resources in Upper Egypt to demand?
2. How can Africa and the Arab region join Egypt–EU supply chains?
3. Is it cheaper to move electrons or molecules between south and north?

ADDITIONAL PANEL QUESTIONS — TO BE PUT TO ANOTHER SPEAKER

1. Which cost layers do headline hydrogen prices often leave out?
2. What is the difference between a modelled LCOE and a contracted PPA price?
3. What grid and connection costs sit between the PPA and the electrolyser?

IV-1 13:35 – 14:25 · Cairo time

MAIN HALL

EU–Egypt Policy Alignment: Regulation, CBAM, Certification, MRV and Carbon Markets

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

MODERATOR



Alan Haigh

Active Senior / DDG1, RTD, European Commission

KEY TOPICS

EU renewable hydrogen policy • CBAM and its implications for Egyptian exporters • Egypt's National Low-Carbon Hydrogen Strategy • Certification and guarantees of origin • MRV and product carbon intensity • Carbon markets • Permitting, land and investment incentives • Information sharing and access to data for developers and investors

SPEAKERS



Dr. Thoraya Seada

Director, Carbon Footprint Center (CFC), Heliopolis University for Sustainable Development



Nourhan Ashraf Hegab

Senior Sustainable Development Specialist, RCSF, Financial Regulatory Authority (FRA)



Ahmed Elbeltagui

Climate, Energy and Transport Sector Manager, EU Delegation to Egypt

EU Delegation to Egypt



Ahmed Medhat

Environment and Sustainability Expert, RCREEE; Founder, DeCarbonPro

RCREEE



Ahmed Kamal Abdel Moneim

Executive Director, Environmental Compliance Office; FEI Technical Advisor

SPEAKERS



Dr. Hussein El Ghazzawy

Adviser to the Minister of Industry for Energy Affairs



Shaimaa Khamis

Senior Environmental Specialist, IDA



Dr. Ahmed Roushdy

Founder & CEO, iESG Advisory — ESG, Carbon Markets & CBAM



Dr. Rehab Aly

Director, Center of Excellence at GOEIC EVVU



Helmy Abouleish

CEO, Sekem Group

Sekem Group

IV-1 · 13:35 – 14:25 · Cairo time

QUESTIONS FOR THE SPEAKERS

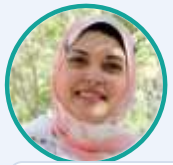
EU–Egypt Policy Alignment: Regulation, CBAM, Certification, MRV and Carbon Markets

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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SPEAKERS · PART 1 OF 2

MODERATOR: ALAN HAIGH



Dr. Thoraya Seada

Director, Carbon Footprint Center (CFC), Heliopolis University for Sustainable Development

1. How should Egyptian exporters measure and verify carbon footprints to be CBAM-ready?
2. Where are EU and Egyptian rules aligned today, and where are the gaps?
3. What is needed for mutual recognition of certification?



Nourhan Ashraf Hegab

Senior Sustainable Development Specialist, RCSF, Financial Regulatory Authority (FRA)

1. How can carbon markets and sustainable finance rules support hydrogen projects in Egypt?
2. What should an Egyptian exporter do now to be CBAM-ready?
3. Which regulatory change would unlock the most investment?



Ahmed Elbeltagui

Climate, Energy and Transport Sector Manager, EU Delegation to Egypt

EU Delegation to Egypt

1. What is the EU Delegation's message to Egyptian exporters on CBAM readiness and EU–Egypt cooperation? †
2. Where are EU and Egyptian rules aligned today, and where are the gaps?
3. What is needed for mutual recognition of certification?



Ahmed Medhat

Environment and Sustainability Expert, RCREEE; Founder, DeCarbonPro

1. How can exporters cut certificate costs with verified emissions before their buyers price them?
2. Where are EU and Egyptian rules aligned today, and where are the gaps?
3. What is needed for mutual recognition of certification?



Ahmed Kamal Abdel Moneim

Executive Director, Environmental Compliance Office; FEI Technical Advisor

1. What compliance support do Egyptian industrial firms need most?
2. What is needed for mutual recognition of certification?
3. What should an Egyptian exporter do now to be CBAM-ready?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

IV-1 13:35 – 14:25 · Cairo time

QUESTIONS FOR THE SPEAKERS

EU–Egypt Policy Alignment: Regulation, CBAM, Certification, MRV and Carbon Markets

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

SPEAKERS · PART 2 OF 2

MODERATOR: ALAN HAIGH



Dr. Hussein El Ghazzawy

Adviser to the Minister of Industry for Energy Affairs

1. What policy steps is the Ministry of Industry considering to support low-carbon industry?
2. What should an Egyptian exporter do now to be CBAM-ready?
3. Which regulatory change would unlock the most investment?



Shaimaa Khamis

Senior Environmental Specialist, IDA

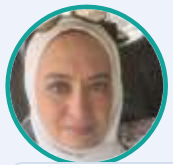
1. What policy and process recommendations would help green projects reach developers and investors?
2. Where are EU and Egyptian rules aligned today, and where are the gaps?
3. What is needed for mutual recognition of certification?



Dr. Ahmed Roushdy

Founder & CEO, iESG Advisory — ESG, Carbon Markets & CBAM

1. How do carbon markets and CBAM costs enter a hydrogen project's economics?
2. What is needed for mutual recognition of certification?
3. What should an Egyptian exporter do now to be CBAM-ready?



Dr. Rehab Aly

Director, Center of Excellence at GOEIC EVVU

1. How can the GOEIC EVVU Center of Excellence support exporters with verification and certification? †
2. What is needed for mutual recognition of certification?
3. What should an Egyptian exporter do now to be CBAM-ready?



Helmy Abouleish

CEO, Sekem Group

Sekem Group

1. What has Sekem learned from exporting to the EU that applies to industrial exporters facing CBAM? †
2. What should an Egyptian exporter do now to be CBAM-ready?
3. Which regulatory change would unlock the most investment?

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IV-2 | 14:25 – 15:00 · Cairo time | MAIN HALL

Industrial Decarbonisation Beyond CBAM: Heat, Boilers, SMEs and Efficiency First / The Hydrogen Value Chain: ELS Local Manufacturing, Infrastructure, Industrial Clusters and Mediterranean–Africa Corridors

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

MODERATOR



Patrick Cnubben

CEO, Hydrogen Architects

KEY TOPICS

Electrolyser technologies • Local assembly and manufacturing • Balance-of-plant, automation, safety, compression and storage • Gas-network reuse and pipelines • Valley of Ra, TRIERES and Mediterranean cooperation • Clusters (Andalusia) • African Union role • Boilers and process heat • Modular on-site electrolysis • Energy management and carbon footprint support • Hydrogen vs electrification vs efficiency

THE HYDROGEN VALUE CHAIN: TECHNOLOGY, LOCAL MANUFACTURING, INFRASTRUCTURE AND CORRIDORS



Mr. Xie Jun

Senior Expert, MCC CERI (with Mr. Wang Jiajun, Account Manager)



Ossama Maguid

VP Africa, Yokogawa



Francisco Montablan

President, Clúster Andaluz del Hidrógeno



Dr. Ibrahim Kshanh

Energy & Sustainability Expert, ECHEM



Dr. Rehab Aly

Director, Center of Excellence at GOEIC EVVU

INDUSTRIAL DECARBONISATION BEYOND CBAM: HEAT, BOILERS, SMES AND EFFICIENCY FIRST



Alaa Mostafa

Energy and Sustainability Expert, Industrial Modernization Centre, MOPCO



Ahmed Hussien

Process Optimization — Energy Efficiency, EnMS National Expert, ECHEM (MOPCO)



Mohamed Nasser Elgebaly

Energy Efficiency Consultant, ETHYDCO



Alshaimaa Hussien Shafey

Senior RE/EE Specialist, RCREEE — ISO 50001 Auditor, GASCO



Dr. Thoraya Seada

Director, Carbon Footprint Center (CFC), Heliopolis University for Sustainable Development

IV-2 · 14:25 – 15:00 · Cairo time

QUESTIONS FOR THE SPEAKERS

Industrial Decarbonisation Beyond CBAM: Heat, Boilers, SMEs and Efficiency First / The Hydrogen Value Chain: ELS Local Manufacturing, Infrastructure, Industrial Clusters and Mediterranean–Africa Corridors

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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THE HYDROGEN VALUE CHAIN: TECHNOLOGY, LOCAL MANUFACTURING, INFRASTRUCTURE AND CORRIDORS · PART 1 OF 2

MODERATOR: PATRICK CNUBBEN



Mr. Xie Jun

Senior Expert, MCC CERI (with Mr. Wang Jiajun, Account Manager)

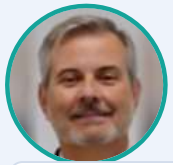
1. Which MCC CERI technologies could help plants cut energy use and emissions before hydrogen? †
2. What standards and safety rules must local suppliers meet?
3. What does a buyer need to see before trusting a new local supplier?



Ossama Maguid

VP Africa, Yokogawa

1. What does automation and control add to safety and cost of hydrogen plants?
2. What standards and safety rules must local suppliers meet?
3. What does a buyer need to see before trusting a new local supplier?



Francisco Montablan

President, Clúster Andaluz del Hidrógeno

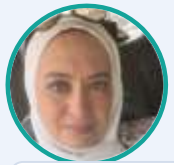
1. How does the Andalusian cluster approach build a hydrogen ecosystem, and what can Egypt copy?
2. Is it cheaper to move electrons or molecules between south and north?
3. Who finances and builds shared infrastructure?



Dr. Ibrahim Kshanh

Energy & Sustainability Expert, ECHEM

1. What should energy users know about the difference between LCOE, LCOH and delivered cost?
2. What grid and connection costs sit between the PPA and the electrolyser?
3. Which single variable moves Egyptian hydrogen cost the most?



Dr. Rehab Aly

Director, Center of Excellence at GOEIC EVVU

1. How can verification and certification support plants that decarbonise beyond CBAM? †
2. What should a plant do first, before considering hydrogen?
3. Where are EU and Egyptian rules aligned today, and where are the gaps?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

Industrial Decarbonisation Beyond CBAM: Heat, Boilers, SMEs and Efficiency First / The Hydrogen Value Chain: ELS Local Manufacturing, Infrastructure, Industrial Clusters and Mediterranean–Africa Corridors

INDUSTRIAL DECARBONISATION BEYOND CBAM: HEAT, BOILERS, SMES AND EFFICIENCY FIRST · PART 2 OF 2

MODERATOR: PATRICK CNUBBEN



Alaa Mostafa

Energy and Sustainability Expert, Industrial Modernization Centre, MOPCO

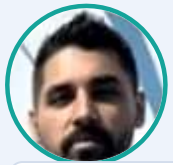
1. What do small and medium plants need to start energy and hydrogen assessments?
2. Where is hydrogen better than electrification or efficiency?
3. Can SMEs share on-site or hub supply?



Ahmed Hussien

Process Optimization — Energy Efficiency, EnMS National Expert, ECHEM (MOPCO)

1. What efficiency measures should plants complete before considering hydrogen?
2. Can SMEs share on-site or hub supply?
3. What should a plant do first, before considering hydrogen?



Mohamed Nasser Elgebaly

Energy Efficiency Consultant, ETHYDCO

ETHYDCO

1. What energy-efficiency results have you seen in Egyptian plants?
2. What should a plant do first, before considering hydrogen?
3. Where is hydrogen better than electrification or efficiency?



Alshaimaa Hussien Shafey

Senior RE/EE Specialist, RCREEE — ISO 50001 Auditor, GASCO

1. How does ISO 50001 energy management help plants choose between efficiency, electrification and hydrogen?
2. Where is hydrogen better than electrification or efficiency?
3. Can SMEs share on-site or hub supply?



Dr. Thoraya Seada

Director, Carbon Footprint Center (CFC), Heliopolis University for Sustainable Development

1. How should Egyptian exporters measure and verify carbon footprints to be CBAM-ready?
2. Where are EU and Egyptian rules aligned today, and where are the gaps?
3. What is needed for mutual recognition of certification?

V-1 + V-2 | 15:30 – 16:15 · Cairo time | MAIN HALL

V-1 Ports, Shipping and Future Fuels: Bunkering, Ammonia, Methanol and SAF / V-2 Hydrogen Mobility and Transport

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

MODERATORS



Raphael Schoentgen
CEO, Hydrogen Advisors



Eng. Khaled Nageib
CEO, Hydrogen Egypt

KEY TOPICS

Port infrastructure and land • Ammonia and methanol handling and bunkering • Green shipping corridors • Egypt–Oman–Spain port links • SAF pathways • Marine engineering and Suez Canal services • Heavy-duty trucks and fleets • Retrofit and dual-fuel conversion • Refuelling infrastructure • Smart fleet management and safety

V-1 PORTS, SHIPPING AND FUTURE FUELS



Admiral Abdel Kader Darwish
Chairman, Egypt Marine Ports



Rumaitha Al Busaidi
Chairman, HYDROM, Oman



Essam El Sheibany
Group VP, Asyad, Oman



Nuria Cano
Partner, EDAIR Technologies



Francisco Montablan
President, Clúster Andaluz del Hidrógeno



Jamie Warner
Director, PJT Low Carbon Tech



Madah MacLaine
SG Zero Emissions Ship Technology



Joel Vogl
CEO, INFENER (SAF)

EMP | ONLINE hydrom | اسياد ASYAD | EDAIR TECHNOLOGIES | Clúster Andaluz del Hidrógeno | PJT Low Carbon Tech | ONLINE SG Zero Emissions Ship Technology | INFENER

V-2 HYDROGEN MOBILITY AND TRANSPORT



Abir Leheta
CEO, EGYTRANS



Mohamed Elniel
Chairman, GASTEC



Ahmed El Gezairy
COO, Ostool

EGYTRANS | GASTEC | ostool

WHAT THIS SESSION TESTS

Show what ports and logistics need to handle hydrogen derivatives and green bunkering, which ammonia, methanol and SAF pathways are commercial now, and where heavy-duty and fleet users in Egypt could run first hydrogen or dual-fuel pilots — without overstating readiness.

V-1 + V-2 | 15:30 – 16:15 · Cairo time | QUESTIONS FOR THE SPEAKERS

V-1 Ports, Shipping and Future Fuels: Bunkering, Ammonia, Methanol and SAF / V-2 Hydrogen Mobility and Transport

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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V-1 PORTS, SHIPPING AND FUTURE FUELS · PART 1 OF 3

MODERATORS: RAPHAEL SCHOENTGEN & ENG. KHALED NAGEIB



Admiral Abdel Kader Darwish

Chairman, Egypt Marine Ports

EMP

1. Which Egyptian ports can be ready first for hydrogen derivatives, and what must be built?
2. Which ports can be ready first, and what must be built?
3. What certification do shipping customers require?



Rumaitha Al Busaidi

Chairman, HYDROM, Oman

hydrom

ONLINE

1. What has HYDROM learned about hydrogen export from Oman that applies to Egypt?
2. What would a first green-corridor pilot between your port and Egypt need?
3. Which ports can be ready first, and what must be built?



Essam El Sheibany

Group VP, Asyad, Oman

اسياد ASYAD

1. How is Asyad preparing logistics for hydrogen derivatives?
2. What would a first green-corridor pilot between your port and Egypt need?
3. Which ports can be ready first, and what must be built?



Nuria Cano

Partner, EDAIR Technologies

EDAIR TECHNOLOGIES

1. What did you take from meeting port authorities at H2MED 2025?
2. What certification do shipping customers require?
3. What would a first green-corridor pilot between your port and Egypt need?

V-1 + V-2 | 15:30 – 16:15 · Cairo time | QUESTIONS FOR THE SPEAKERS

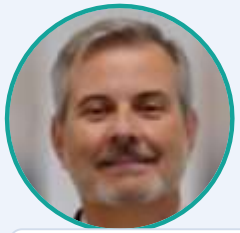
V-1 Ports, Shipping and Future Fuels: Bunkering, Ammonia, Methanol and SAF / V-2 Hydrogen Mobility and Transport

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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V-1 PORTS, SHIPPING AND FUTURE FUELS · PART 2 OF 3

MODERATORS: RAPHAEL SCHOENTGEN & ENG. KHALED NAGEIB



Francisco Montablan

President, Clúster Andaluz del Hidrógeno

1. How can Andalusian ports and companies link to Egyptian ports?
2. Which ports can be ready first, and what must be built?
3. What certification do shipping customers require?



Jamie Warner

Director, PJT Low Carbon Tech

PJT Low Carbon Tech

1. What marine engineering expertise can help Suez Canal hydrogen and industrial projects?
2. Which fuel pathways are commercial now and which are early-stage?
3. What do shipping and aviation buyers need to sign?

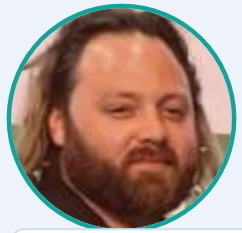


Madah MacLaine

SG Zero Emissions Ship Technology

SG Zero Emissions Ship Technology — ONLINE

1. What does zero-emission ship technology need from fuel suppliers and ports?
2. What do shipping and aviation buyers need to sign?
3. What infrastructure or certification is the bottleneck?



Joel Vogl

CEO, INFENER (SAF)

INFENER

1. How might hydrogen and derivatives reach ships and ports?
2. What infrastructure or certification is the bottleneck?
3. Which fuel pathways are commercial now and which are early-stage?

V-1 + V-2 | 15:30 – 16:15 · Cairo time | QUESTIONS FOR THE SPEAKERS

V-1 Ports, Shipping and Future Fuels: Bunkering, Ammonia, Methanol and SAF / V-2 Hydrogen Mobility and Transport

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V-2 HYDROGEN MOBILITY AND TRANSPORT · PART 3 OF 3

MODERATORS: RAPHAEL SCHOENTGEN & ENG. KHALED NAGEIB



Abir Leheta
CEO, EGYTRANS

EGYTRANS

1. What would it take for freight and logistics firms to adopt hydrogen?
2. What do fleet operators need before committing?
3. What evidence separates a proven application from a claim?



Mohamed Elniel
Chairman, GASTEC

GASTEC

1. What does GASTEC's experience show about hydrogen retrofit kits?
2. Which mobility segments are credible first?
3. What do fleet operators need before committing?



Ahmed El Gezairy
COO, Ostool

ostool

1. How do logistics operators weigh hydrogen against other options?
2. Which mobility segments are credible first?
3. What do fleet operators need before committing?

VI-3 | 16:25 – 17:00 · Cairo time | WORKSHOP ROOM · CLOSED DOOR

Closed-Door Investor–Developer Roundtable: Financing Egypt's Hydrogen Pipeline

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

MODERATOR



Dr. Ibrahim Abdel Khalek

Economic Expert, Chairman of GENT for Investment and Consulting

GENT

KEY TOPICS

Project and blended finance • DFIs and guarantees • PPPs • Hydrogen purchase agreements • Carbon-market revenues • Sustainable-finance regulation • Project pipeline and investment readiness • Information sharing and confidentiality

BY INVITATION ONLY — FINANCING AND PUBLIC-SECTOR PARTICIPANTS



Atter Hamoura

PPP Central Unit

PPP Unit



Dr. Dalia Khalifa

Director, Middle East, World Bank

IN PERSON

WORLD BANK GROUP

OR



Dolf Gielen

Senior Energy Economist, World Bank

ONLINE

WORLD BANK GROUP



Shaimaa Khamis

Senior Environmental Specialist, IDA

IDA



Nourhan Ashraf Hegab

Senior Sustainable Development Specialist, RCSF, Financial Regulatory Authority (FRA)



Helmy Abouleish

CEO, Sekem Group

Sekem Group

INVITED DEVELOPER GUESTS



Wesam Alghamdi

CEO, NEOM Green Hydrogen Company (NGHC), Saudi Arabia

NEOM



Afaf Abdelrahman Habib

Solar Design Manager, Infinity Power (IPH)

INFINITY



Marawan Assar

Scatec

Scatec



Joel Vogl

CEO, INFENER (SAF)

INFENER



Mohamed El Semellawy

COO, EDF Power Egypt (Red Sea hydrogen developments)

EDF



Mohamed Shoukry

Egypt Country Director, Fortescue

FORTESCUE FUTURE INDUSTRIES



Frans Van Bruegel

Renergy (Red Sea hydrogen developments)

Renergy



Hussein Rihan

Business Head, OCIOR Energy

OCIOR ENERGY



Ayman Fayek

Business Head, ACWA Power

ACWA POWER

VI-3 · 16:25 – 17:00 · Cairo time

QUESTIONS FOR THE SPEAKERS

Closed-Door Investor–Developer Roundtable: Financing Egypt's Hydrogen Pipeline

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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BY INVITATION ONLY — FINANCING AND PUBLIC-SECTOR PARTICIPANTS · PART 1 OF 3

MODERATOR: DR. IBRAHIM ABDEL KHALEK



Atter Hamoura

PPP Central Unit

PPP Unit

1. How can PPP structures share risk in hydrogen infrastructure?
2. What does a project need to show to access concessional or blended finance?
3. Which risks must be covered before lenders commit?



Dr. Dalia Khalifa

Director, Middle East, World Bank

WORLD BANK GROUP

IN PERSON

1. How can development finance reduce risk for first hydrogen projects in Egypt?
2. Which risks must be covered before lenders commit?
3. How do offtake and PPP structures reduce cost of capital?



Dolf Gielen

Senior Energy Economist, World Bank

WORLD BANK GROUP

ONLINE

1. How does published analysis, including the OECD range for Egypt, explain differences in hydrogen cost estimates?
2. What cost is acceptable to an Egyptian industrial user at the plant gate?
3. What is the difference between a modelled LCOE and a contracted PPA price?



Shaimaa Khamis

Senior Environmental Specialist, IDA

IDA

1. What recommendations and process help new green projects reach developers and investors?
2. How do offtake and PPP structures reduce cost of capital?
3. What does a project need to show to access concessional or blended finance?



Nourhan Ashraf Hegab

Senior Sustainable Development Specialist, RCSF, Financial Regulatory Authority (FRA)

1. How can carbon markets and sustainable finance rules support hydrogen projects in Egypt?
2. What should an Egyptian exporter do now to be CBAM-ready?
3. Which regulatory change would unlock the most investment?



Helmy Abouleish

CEO, Sekem Group

Sekem Group

1. What conditions would make Sekem consider investing in green industrial projects in Egypt? †
2. Which risks must be covered before lenders commit?
3. How do offtake and PPP structures reduce cost of capital?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

VI-3 · 16:25 – 17:00 · Cairo time

QUESTIONS FOR THE SPEAKERS

Closed-Door Investor–Developer Roundtable: Financing Egypt's Hydrogen Pipeline

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

INVITED DEVELOPER GUESTS · PART 2 OF 3

MODERATOR: DR. IBRAHIM ABDEL KHALEK

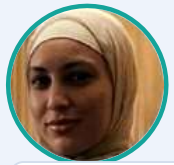


Wesam Alghamdi

CEO, NEOM Green Hydrogen Company (NGHC), Saudi Arabia

NEOM

1. What do lenders and offtakers require on a gigawatt-scale project like NEOM that Egyptian developers should prepare for? †
2. Which risks must be covered before lenders commit?
3. How do offtake and PPP structures reduce cost of capital?



Afaf Abdelrahman Habib

Solar Design Manager, Infinity Power (IPH)

INFINITY

1. What solar electricity cost can Egypt really deliver to an electrolyser, and what drives it?
2. What grid and connection costs sit between the PPA and the electrolyser?
3. Which single variable moves Egyptian hydrogen cost the most?

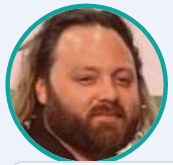


Marawan Assar

Scatec

Scatec

1. What are real renewable power prices and capacity factors in your Egyptian projects, and what is the limit of disclosing them?
2. What grid and connection costs sit between the PPA and the electrolyser?
3. Which single variable moves Egyptian hydrogen cost the most?



Joel Vogl

CEO, INFENER (SAF)

INFENER

1. What electrolyser technology does INFENER offer, and what local content is realistic?
2. What does a buyer need to see before trusting a new local supplier?
3. Which parts of the supply chain can Egypt credibly localise first?



Mohamed El Semellawy

COO, EDF Power Egypt (Red Sea hydrogen developments)

EDF

1. What milestone does EDF Power Egypt's Red Sea hydrogen development need next?
2. What milestone does each project need next?
3. What would unblock final investment decisions?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

VI-3 · 16:25 – 17:00 · Cairo time

QUESTIONS FOR THE SPEAKERS

Closed-Door Investor–Developer Roundtable: Financing Egypt's Hydrogen Pipeline

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

INVITED DEVELOPER GUESTS · PART 3 OF 3

MODERATOR: DR. IBRAHIM ABDEL KHALEK



Mohamed Shoukry

Egypt Country Director, Fortescue

FORTESCUE FUTURE INDUSTRIES

1. What does Fortescue need to move its Egypt project towards final investment decision?
2. What would unblock final investment decisions?
3. What help do you need from government or buyers in the next six months?



Frans Van Bruegel

Renergy (Red Sea hydrogen developments)

Renergy

1. What is the status of the El-Tor Green Valley assessment, and what is the next step?
2. What help do you need from government or buyers in the next six months?
3. What milestone does each project need next?

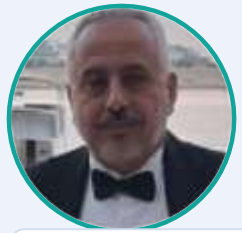


Hussein Rihan

Business Head, OCIOR Energy

OCIOR ENERGY

1. What do you need to see before financing a hydrogen project developed by OCIOR Energy in Egypt? †
2. Which risks must be covered before lenders commit?
3. How do offtake and PPP structures reduce cost of capital?



Ayman Fayek

Business Head, ACWA Power

ACWA POWER

1. What does ACWA Power need to see on offtake and risk allocation before committing to an Egyptian green hydrogen project? †
2. Which risks must be covered before lenders commit?
3. How do offtake and PPP structures reduce cost of capital?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

VI-4 | 17:20 – 17:55 · Cairo time | MAIN HALL

Flagship Projects: From Pilot to Commercial Scale

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

MODERATOR



Ahmed Hussien

Process Optimization — Energy Efficiency, EnMS National Expert, ECHEM (MOPCO)

KEY TOPICS

Red Sea hydrogen developments • El-Tor Green Valley • Green hydrogen offtake • Pilot-to-commercial scale-up • Investment-ready preparation • Local manufacturing and technology transfer

PROJECT DEVELOPERS



Mohamed El Semellawy

COO, EDF Power Egypt (Red Sea hydrogen developments)



Mohamed Shoukry

Egypt Country Director, Fortescue



Frans Van Bruegel

Renergy (Red Sea hydrogen developments)



Alaa Yahia Fayed

Project Manager, Nexus Analytica



Hussein Rihan

Business Head, OCIOR Energy



Ayman Fayek

Business Head, ACWA Power



Wesam Alghamdi

CEO, NEOM Green Hydrogen Company (NGHC), Saudi Arabia



Joel Vogl

CEO, INFENER (SAF)

EDF | FORTESCUE FUTURE INDUSTRIES | Renergy | NEXUS ANALYTICA | OCIOR ENERGY | ACWA POWER | NEOM | INFENER

STRATEGIC PURPOSE

Review actual project pipelines in the Red Sea and Suez Canal regions, learn from NEOM Green Hydrogen Company (Saudi Arabia) as the reference gigawatt-scale project, and identify what each project needs to reach final investment decision.

INTENDED OUTCOME

Project-by-project next steps.

VI-4 17:20 – 17:55 · Cairo time

QUESTIONS FOR THE SPEAKERS

Flagship Projects: From Pilot to Commercial Scale

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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PROJECT DEVELOPERS · PART 1 OF 2

MODERATOR: AHMED HUSSIEN



Mohamed El Semellawy

COO, EDF Power Egypt (Red Sea hydrogen developments)

EDF

1. What milestone does EDF Power Egypt's Red Sea hydrogen development need next?
2. What milestone does each project need next?
3. What would unblock final investment decisions?



Mohamed Shoukry

Egypt Country Director, Fortescue

FORTESCUE FUTURE INDUSTRIES

1. What does Fortescue need to move its Egypt project towards final investment decision?
2. What would unblock final investment decisions?
3. What help do you need from government or buyers in the next six months?

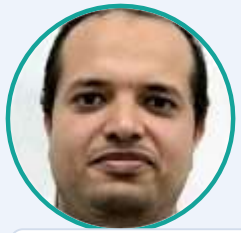


Frans Van Bruegel

Renergy (Red Sea hydrogen developments)

Renergy

1. What is the status of the El-Tor Green Valley assessment, and what is the next step?
2. What help do you need from government or buyers in the next six months?
3. What milestone does each project need next?



Alaa Yahia Fayed

Project Manager, Nexus Analytica

NEXUS ANALYTICA

1. What project-management lessons help projects move from pilot to commercial scale?
2. What milestone does each project need next?
3. What would unblock final investment decisions?

Flagship Projects: From Pilot to Commercial Scale

PROJECT DEVELOPERS · PART 2 OF 2

MODERATOR: AHMED HUSSIEN

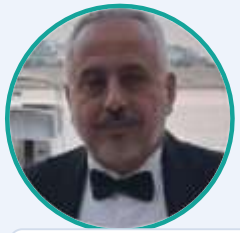


Hussein Rihan

Business Head, OCIOR Energy

OCIOR ENERGY

1. What milestone does OCIOR Energy's hydrogen project in Egypt need next? †
2. What milestone does each project need next?
3. What would unblock final investment decisions?



Ayman Fayek

Business Head, ACWA Power

ACWA POWER

1. What does ACWA Power need to move an Egyptian green hydrogen project towards final investment decision? †
2. What milestone does each project need next?
3. What would unblock final investment decisions?

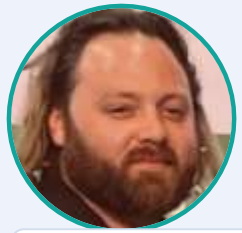


Wesam Alghamdi

CEO, NEOM Green Hydrogen Company (NGHC), Saudi Arabia

NEOM

1. What are the main lessons from building the world's largest green hydrogen plant at NEOM, from pilot to commercial scale? †
2. What would unblock final investment decisions?
3. What milestone does each project need next?



Joel Vogl

CEO, INFENER (SAF)

INFENER

1. What electrolyser technology does INFENER offer, and what local content is realistic?
2. What does a buyer need to see before trusting a new local supplier?
3. Which parts of the supply chain can Egypt credibly localise first?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

VI-1 | 17:55 – 18:35 · Cairo time | MAIN HALL

Making Industrial Hydrogen Bankable: Heavy Industry and CBAM — Cement and Hard-to-Abate Retrofit

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

MODERATOR



Eng. Khaled Nageib

CEO, Hydrogen Egypt

KEY TOPICS

Cement kiln applications • Retrofit feasibility and process requirements • Emissions reduction and CBAM • Competitiveness • Financing and risk allocation • EU and multilateral finance perspectives

SPEAKERS



Dr. Mahmoud Abu ElEnein
Group Sustainability Director, Royal Cement



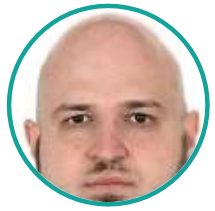
Maged Moustafa
COO, Arabian Cement



Essam Ali
MD & Cement Plant Director, Titan



Ivan Mihaylov
Senior R&D Engineer, Hydrogen Technologies — Cement Industry, HYDROGENERA



Lachezar Tsenov
Director of Business Development and Strategic Partnerships, HYDROGENERA



Alan Talib
CEO, Nord Gulf Alliance



Dolf Gielen
Senior Energy Economist, World Bank

ONLINE



Mr. Xie Jun
Senior Expert, MCC CERI (with Mr. Wang Jiajun, Account Manager)

STRATEGIC PURPOSE

Test hydrogen integration into cement and other hard-to-abate processes on retrofit feasibility, energy use and cost, and show what makes such projects bankable.

INTENDED OUTCOME

Pilot candidates in cement and a bankability checklist for industrial retrofits.

VI-1 17:55 – 18:35 · Cairo time

QUESTIONS FOR THE SPEAKERS

Making Industrial Hydrogen Bankable: Heavy Industry and CBAM — Cement and Hard-to-Abate Retrofit

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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SPEAKERS · PART 1 OF 2

MODERATOR: ENG. KHALED NAGEIB

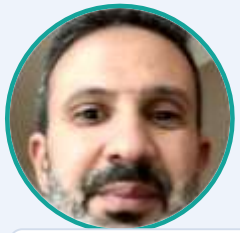


Dr. Mahmoud Abu ElEnein

Group Sustainability Director, Royal Cement

Royal El Minya Cement Co

1. How does Royal Cement see hydrogen alongside its other decarbonisation levers?
2. What retrofit cost and CO2 saving would justify a pilot?
3. What would make a project bankable for a lender?



Maged Moustafa

COO, Arabian Cement

ARABIAN CEMENT العربية للأسمنت

1. What operational conditions must hydrogen meet in a cement plant?
2. What would make a project bankable for a lender?
3. Where does hydrogen make technical sense in a cement plant?

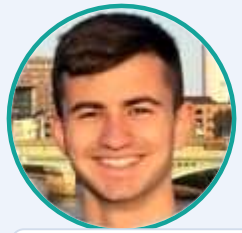


Essam Ali

MD & Cement Plant Director, Titan

TITAN EGYPT

1. What have Titan's plants learned about alternative fuels that applies to hydrogen?
2. Where does hydrogen make technical sense in a cement plant?
3. What retrofit cost and CO2 saving would justify a pilot?



Ivan Mihaylov

Senior R&D Engineer, Hydrogen Technologies — Cement Industry, HYDROGENERA

HYDROGENERA

1. What does hydrogen in a cement kiln require technically, and what savings can be expected?
2. What would make a project bankable for a lender?
3. Where does hydrogen make technical sense in a cement plant?

VI-1 · 17:55 – 18:35 · Cairo time

QUESTIONS FOR THE SPEAKERS

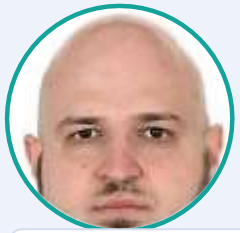
Making Industrial Hydrogen Bankable: Heavy Industry and CBAM — Cement and Hard-to-Abate Retrofit

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

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SPEAKERS · PART 2 OF 2

MODERATOR: ENG. KHALED NAGEIB



Lachezar Tsenov

Director of Business Development and Strategic Partnerships, HYDROGENERA

HYDROGENERA

1. What partnership model does HYDROGENERA propose for cement hydrogen projects?
2. What retrofit cost and CO2 saving would justify a pilot?
3. What would make a project bankable for a lender?



Alan Talib

CEO, Nord Gulf Alliance

NORD GULF ALLIANCE

1. What would make an industrial hydrogen project bankable from your side?
2. Where does hydrogen make technical sense in a cement plant?
3. What retrofit cost and CO2 saving would justify a pilot?



Dolf Gielen

Senior Energy Economist, World Bank

WORLD BANK GROUP — ONLINE

1. How do lenders view cement and other hard-to-abate hydrogen retrofits?
2. What retrofit cost and CO2 saving would justify a pilot?
3. What would make a project bankable for a lender?



Mr. Xie Jun

Senior Expert, MCC CERI (with Mr. Wang Jiajun, Account Manager)

MCC 中国冶金科工

1. Which MCC CERI technologies could support hydrogen use in cement and other hard-to-abate plants? †
2. Where does hydrogen make technical sense in a cement plant?
3. What retrofit cost and CO2 saving would justify a pilot?

† Question 1 drafted for this slide because the questions file has no entry for this speaker — please review. Questions 2 and 3 are the panel's shared questions from the questions file.

VI-5 | 18:35 – 19:00 · Cairo time | MAIN HALL

Closing Leadership Roundtable: Commitments, Named Actions and Timelines

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

MODERATORS



Eng. Khaled Nageib
CEO, Hydrogen Egypt



Patrick Cnubben
CEO, Hydrogen Architects



Raphael Schoentgen
CEO, Hydrogen Advisors

KEY TOPICS

Commitments • Partnerships • Next steps • Timelines • Closing remarks

CLOSING ROUNDTABLE



Eng. Ahmed El Assar
CEO, Arab Contractors — Main Host & Strategic Partner



Admiral Mohamed Abdel Fattah
Chairman, AOI



Dr. Sherif El Gabaly
Chairman, ECO FEI

AT

Ahmed Tawfik
Advisor to the Minister of Environment

AA

Ahmed Atef
Chairman, Egypt Danish Engineering Company

The Arab Contractors | AOI | Federation of Egyptian Industries | Egypt Danish Engineering

STRATEGIC PURPOSE

Collect named commitments with owners and dates, and close the summit with thanks to partners and closing remarks by the host.

INTENDED OUTCOME

A published list of named commitments with owners and dates, and the summit closing remarks.

VI-5 18:35 – 19:00 · Cairo time

QUESTIONS FOR THE SPEAKERS

Closing Leadership Roundtable: Commitments, Named Actions and Timelines

HIS 2026 HYDROGEN INDUSTRY SUMMIT — HES 2023 | H2MED 2025

22 NOVEMBER 2026 · CAIRO

CLOSING ROUNDTABLE

MODERATORS: ENG. KHALED NAGEIB & PATRICK CNUBBEN & RAPHAEL SCHOENTGEN



Eng. Ahmed El Assar

CEO, Arab Contractors — Main Host & Strategic Partner

1. What will the Arab Contractors commit to, with a named owner and date?
2. What will you commit to within six months, with a named owner?
3. Who do you need to work with to deliver it?



Admiral Mohamed Abdel Fattah

Chairman, AOI

1. What will the Arab Organization for Industrialization commit to for local manufacturing?
2. Who do you need to work with to deliver it?
3. What should we check together at the six-month review?



Dr. Sherif El Gabaly

Chairman, ECO FEI

1. What will you commit to for supporting industrial members in the next six months?
2. What should we check together at the six-month review?
3. What will you commit to within six months, with a named owner?

AT

Ahmed Tawfik

Advisor to the Minister of Environment

1. What will the Ministry of Environment's office do next to support project delivery?
2. What will you commit to within six months, with a named owner?
3. Who do you need to work with to deliver it?

AA

Ahmed Atef

Chairman, Egypt Danish Engineering Company

Egypt Danish Engineering

1. What can Egypt Danish Engineering Company commit to on engineering delivery?
2. What should we check together at the six-month review?
3. What will you commit to within six months, with a named owner?

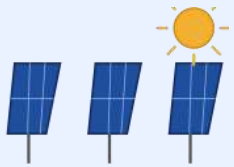
From Green Electrons to Green Molecules: LCOE to LCOH

Five different costs are often mixed up.

Electricity is the first ingredient of green hydrogen — but the price you read in a press release, the price in a contract and the price at the electrolyser can be three different numbers. This appendix gives the vocabulary and the arithmetic, step by step.



1 Renewable electricity

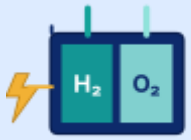


LCOE

Cost of each MWh from a solar or wind plant over its life

USD/MWh

2 Hydrogen production



LCOH

Cost per kg at the electrolyser outlet: electricity + equipment + running costs

USD/kg

3 Hydrogen at the industrial gate

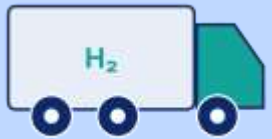


Gate cost

Adds compression and storage at the plant boundary

USD/kg

4 Delivered hydrogen



Delivered

Adds transport (pipeline, truck, ship) and margin to reach the user

USD/kg

5 Derivatives

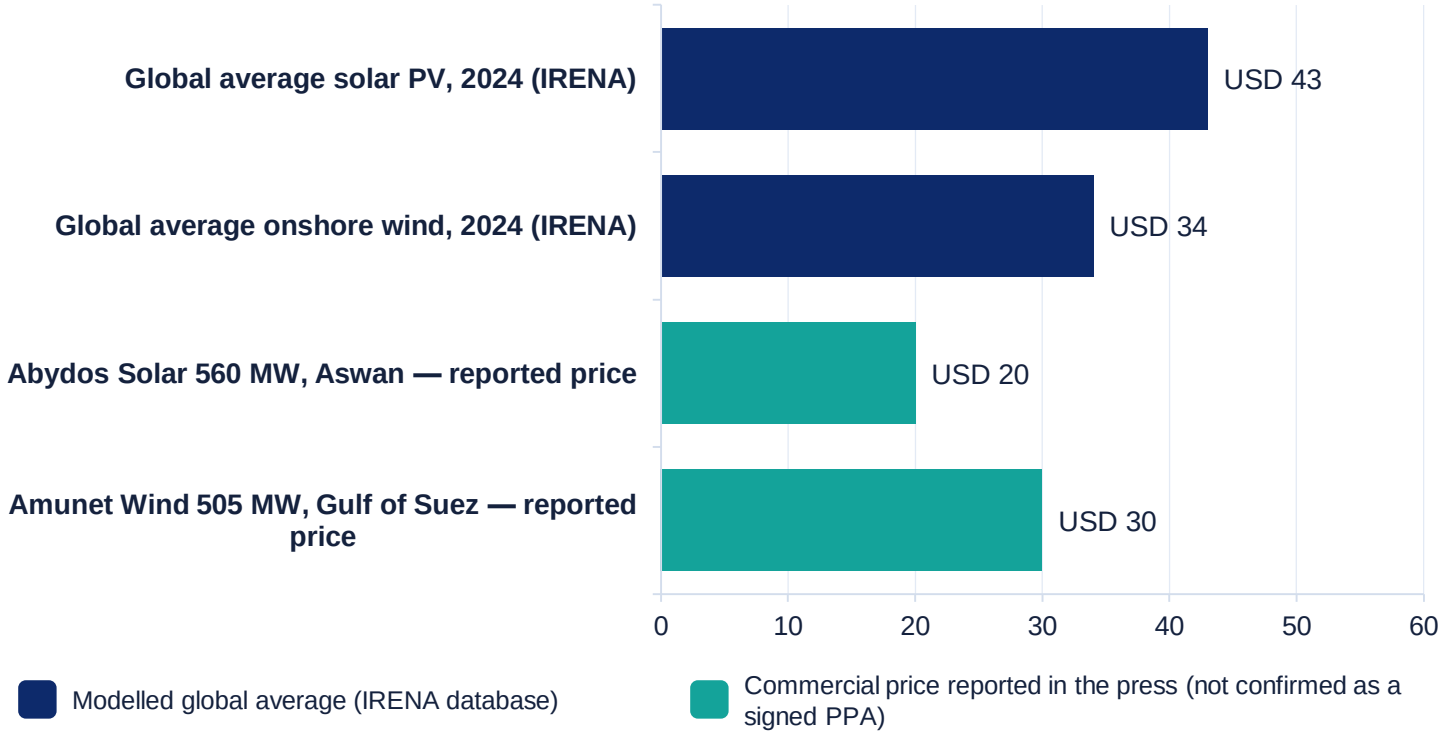
NH_3 · CH_3OH · SAF

Derivative cost

Adds the conversion plant: ammonia, methanol or sustainable aviation fuel

USD/t

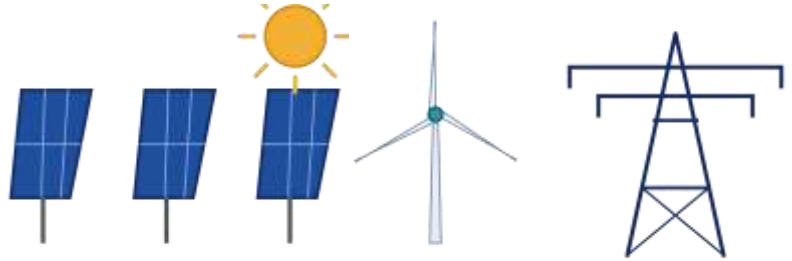
Evidence on electricity cost: what has actually been reported





The number we still need

Egyptian hybrid solar–wind electricity delivered to an electrolyser: no published figure found. It needs project-specific grid, transmission and connection costs, plus storage or firming.



LCOE explained: one plant, three different prices

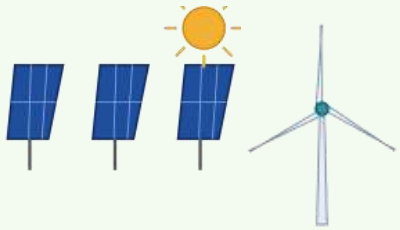
LCOE = THE LIFETIME COST OF ONE MWh FROM A SOLAR OR WIND PLANT

Cost over 20 years
land, panels or turbines, grid connection, borrowing, yearly care

÷

MWh generated over 20 years

= cost per MWh (LCOE)



Plant cost over its life (capex, financing, O&M)
÷ MWh generated = LCOE (USD/MWh)



Why the gap?

- The plant sells electricity at its own gate; you still need a connection, a line and someone to carry the power to the electrolyser.
- In power terms: a connection to the grid, transmission charges, losses, and storage or firming when the sun or wind drops.

SAME ELECTRICITY — THREE DIFFERENT PRICES

1

Cost per MWh at the plant gate

Modelled LCOE

LOWEST ON PAPER

A calculation from database assumptions: capacity factor, capex, financing.

2

Price written on the contract

Contracted PPA price

WHAT YOU SIGN

What the buyer has actually agreed to pay the plant — may sit above or below the modelled cost.

3

The price at the electrolyser

Delivered electricity

WHAT YOU PAY

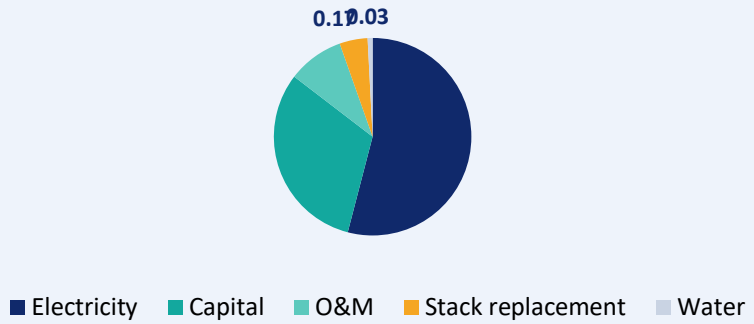
Adds grid connection, transmission, losses, storage or firming — what the electrolyser really pays.

Always ask: which price is this — the plant gate, the contract, or the electrolyser?

In practice: a modelled LCOE says what the electricity should cost; a PPA says what it will cost the buyer; the delivered price says what the electrolyser pays. Only the last one goes into the hydrogen cost.

From electricity price to hydrogen: electricity alone sets a floor

WHERE 1 kg OF HYDROGEN COSTS GO (USD 40/MWh · 60% LOAD)



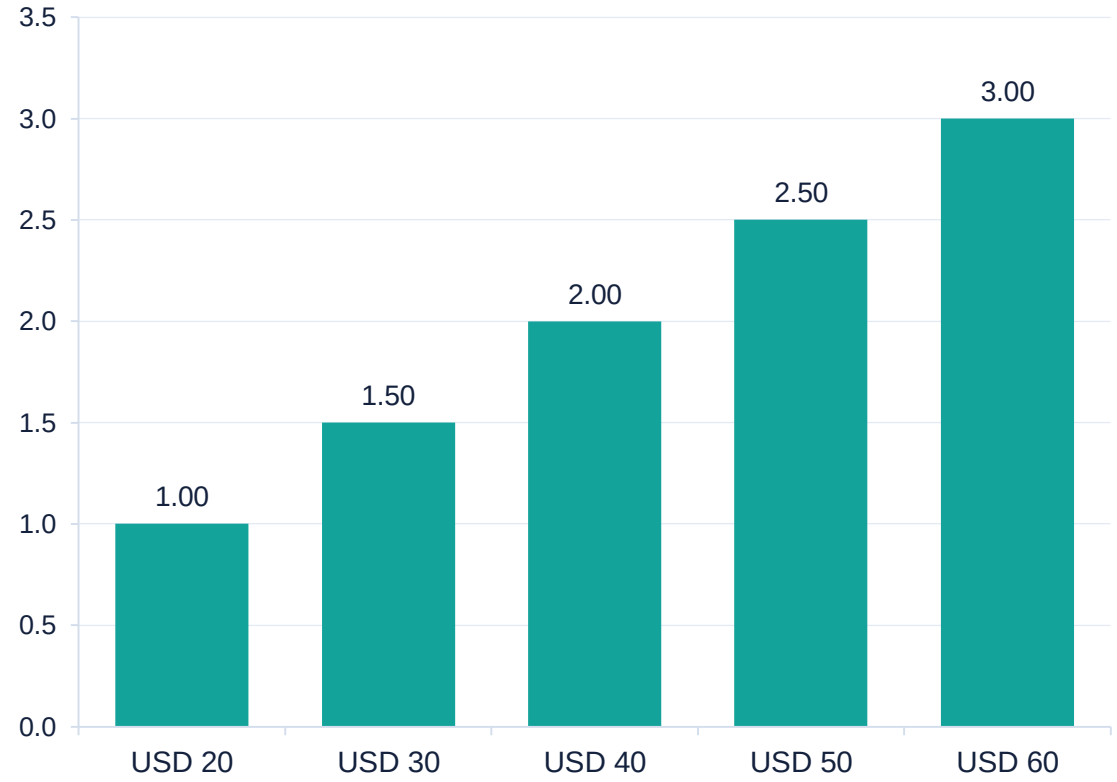
Electricity is the largest layer — about 54% of USD 3.71 per kg — but the electrolyser also costs money: buying it (capex), repairing it (O&M), replacing its core parts (stack), the water, the loan interest — and how many hours a year it actually runs.

Electricity cost per kg = price (USD/MWh) × 50 kWh/kg ÷ 1,000

Example: USD 40/MWh → 40 × 50 ÷ 1,000 = USD 2.00 per kg. Arithmetic only — it leaves out everything else.

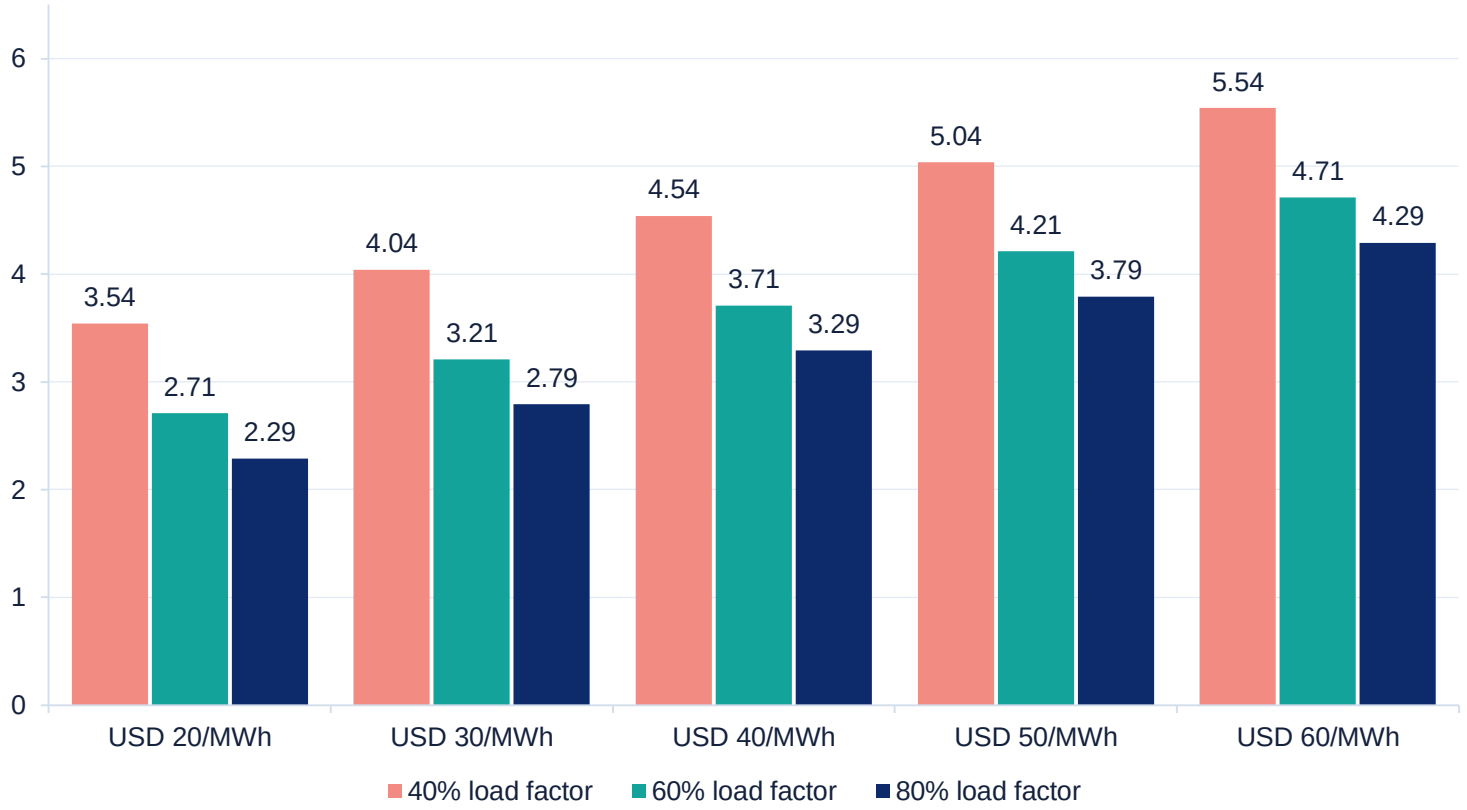
Rule of thumb: every USD 10/MWh on the electricity price adds USD 0.50 to each kg of hydrogen — before any equipment cost.

ELECTRICITY-ONLY COST (USD/kg H_2) AT EACH PRICE PER MWh



Electricity price per MWh (horizontal axis). The reported Egyptian prices of USD 20–30/MWh (Abydos, Amunet) would give USD 1.00–1.50/kg on this arithmetic — but those are not delivered-to-electrolyser prices.

Total production cost: what the same electricity gives at 40%, 60% and 80% load



An idle electrolyser still has to be paid for. Running at 40% instead of 80% of the year adds USD 1.25/kg at every electricity price, because the same equipment cost is spread over half the hydrogen. The table does not add the cost of oversizing renewables, batteries or grid firming.

Worked example

USD 40/MWh · 60% load factor



Total ≈ USD 3.71 per kg at the electrolyser outlet

Electricity	**2.00**
Capital	**1.16**
O&M	**0.34**
Stack replacement	**0.17**
Water	**0.03**

Assumptions (illustrative, set by the programme team)

50 kWh/kg · system cost USD 1,200/kW · WACC 8% · 20-year life · fixed O&M 3% of capex a year · stack replacement 1.5% of capex a year · water USD 0.03/kg · load factor 40/60/80%. Not sourced project data — replace with project-specific numbers. Compression, storage, transport, conversion and margin come on top.

What moves the number — and where published estimates sit

One-at-a-time sensitivity around the worked example

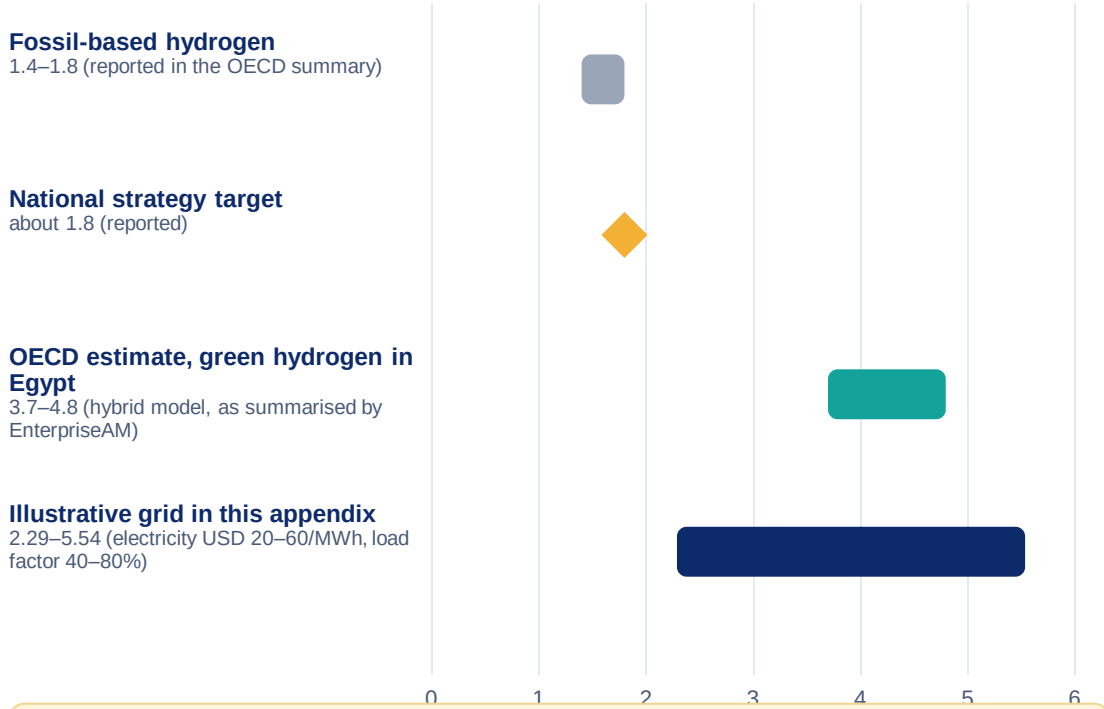
Change in USD/kg versus USD 3.71 (USD 40/MWh, 60% load factor)



Calculated from the Appendix A assumptions, one variable at a time — illustrative, not a forecast. The ranking is the message: electricity price, load factor and capex dominate; cost of capital matters most when it rises.

Published and illustrative hydrogen cost reference points

USD per kg of hydrogen



The illustrative grid brackets the OECD range — it shows how much depends on electricity price, load factor and cost of capital. It does not validate either. OECD figures come from a news summary; check the OECD report before quoting.

Questions for the speakers in III-1 and the technology part of IV-2

1 **Which Egyptian electricity price is contracted, which is modelled, and which is delivered to the electrolyser after connection costs?**

2 **What load factor can a hybrid solar–wind plant realistically give an electrolyser, and what does firming cost?**

3 **What delivered price per kg can an Egyptian ammonia, steel or refining plant pay today, and with what carbon-cost saving (CBAM or otherwise)?**

4 **Which cost layer is missing from the project's headline number: storage, compression, transport, water, or financing?**

SOURCES

- IRENA, Renewable Power Generation Costs in 2024 (July 2025).
- pv magazine USA, "Global average solar LCOE stood at $0.043/kWh in 2024, says IRENA" (23 July 2025).
- Balkan Green Energy News, "Egypt to add 1.1 GW in solar, wind power with cheapest rates in Africa" (2 Dec 2022; updated 31 May 2024).
- OECD, Assessing cost competitiveness of low-carbon hydrogen and green derivatives in Egypt (2026).
- EnterpriseAM, "OECD lays out the policy stack to move green hydrogen projects forward".
- Illustrative LCOH grid, worked example and sensitivities: programme-team assumptions, calculated for HIS2026.



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