Egypt's Ministry of Petroleum and Mineral Resources

EFFORTS TOWARD A DECARBONIZED FUTURE

JUNE 2023
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WAY FORWARD
MINISTRY OF PETROLEUM & MINERAL RESOURCES

Minister’s Technical Office Team
Ahmed Osama
Ahmed El Kordy

EGYPT OIL & GAS TEAM

CEO
Mohamed Fouad
General Manager
Ayman Rady
Research & Analysis Manager
Dr. Mahinaz El Baz
Managing Editor
Ihab Shaarawy
Senior Research Analyst
Reham Gamal
Research Analysts
Jolly Monsef
Mariam Ahmed
Maha Balbaa
Senior Editor
Nader Ramadan
Creative Art Director
Omar Ghazal
Graphic Designers
Merna William
Amira Hassan
The world demand for energy is increasing rapidly, being one of the main engines for economic development and the welfare of societies. However, to achieve sustainable development, energy sources must be also sustainable, meaning that it is all about energy transition: transitioning to produce more energy with fewer emissions. The energy transition is a crucial step to enhance the energy system’s global socio-economic footprint, global welfare, gross domestic product (GDP), and employment. Yet, the trilemma of providing affordable, reliable, and clean energy while tackling climate change is complex and sometimes divisive.

Countries around the world head for the transition to a low-carbon economy in the context of climate change and global warming. The Paris Agreement marked the first global treaty to combat climate change, control greenhouse gas emissions, and limit the rise in global temperature. It was adopted by world leaders at the United Nations (UN) Climate Change Conference (COP21) in Paris in December 2015. Egypt signed the Paris Agreement in 2016 and ratified it in 2017. The agreement’s goal is to substantially reduce global greenhouse gas (GHG) emissions to 2 degrees Celsius while pursuing efforts to limit the increase even further to 1.5 degrees Celsius.

Egypt is accelerating its decarbonization pace and working on energy diversification as it is committed to its “Sustainable Development Strategy: Egypt Vision 2030” and “Integrated Sustainable Energy Strategy 2035”, which were launched in 2015. The Egyptian oil and gas sector has a significant role to support this strategy through a number of projects and initiatives. The Ministry of Petroleum and Mineral Resources (MOPMR) also organized the “Decarbonization Day” at COP27 which highlighted the local, regional, and global success of decarbonization in the oil and gas sector and hard-to-abate industries.
THE EGYPTIAN OIL AND GAS SECTOR’S STRATEGY

Strategic Pillars

Egypt’s oil and gas sector is a main driver of economic and social development. The sector strategic pillars are centered around 3 main pillars for Energy Security, Financial Sustainability, and Sector Governance. In line with the holistic approach for sustainable development, decarbonization and transition to low carbon energy sources were embedded within these strategic pillars to complement Egypt’s oil and gas sector activities in this respect. Accordingly, the sector is working to promote decarbonization activities, monetize decarbonization opportunities and instill a sector-wide focus on decarbonization.

- Boost Energy Supply
- Diversify Energy Supply
- Manage Energy Demand

Promote Decarbonization Activities

- Address Historic Arrears & Financial Interdependencies
- Reform Energy Subsidies
- Maximize Value Added From Oil & Gas

Monetize Decarbonization Opportunities

- Improve Sector Governance & Organizational Structure
- Capitalize on the Sector’s Human Capital
- Attractive Investment Climate

Unified Sector-Wide Focus on Decarbonization

DECARBONIZATION KEY PILLARS

The Ministry’s plan and activities towards supporting decarbonization and energy transition are based on six main pillars.

1. Energy Subsidy Reform

In line with the economic reform program launched by the Government of Egypt, an energy subsidy reform program was implemented in order to address chronic challenges of the energy subsidies borne by the government and to ensure a more sustainable approach for fuel pricing. Such challenges included the heavy fiscal burden on the government’s annual budget, disproportionate benefit of rich households due to their relatively higher energy consumption, and absence of a motive for energy efficiency.

Through the energy subsidy reform program, the subsidies are now specifically directed to vulnerable groups and increased programs for targeted social protection measures (social safety nets) were implemented.
Moreover, prices of liquid petroleum products are now subject to quarterly review through the Automatic Fuel Indexation system. Egypt’s successful implementation of the energy subsidy reform program received acclaim and recognition from leading international organizations.

2. Decarbonized Natural Gas to Complement Renewable Energy

As a cleaner and more environmentally friendly fuel, Egypt took a strategic decision more than 20 years ago to use cleaner, less carbon-intensive, and more environmentally friendly fuels. Decarbonized natural gas increasingly became Egypt’s fuel of choice to complement renewable energy generation, which is in line with Egypt’s energy sector strategy for energy transition and boosting decarbonization.

The sector managed to place Egypt on the global map of major players in the natural gas industry particularly in the East Mediterranean region, after achieving self-sufficiency in natural gas in 2018 and resuming exports.

Natural gas consumption increased more than threefold from fiscal year (FY) 1999/2000 to 2022/23. This increase came in light of Egypt’s vision to diversify its energy mix, enhance the transition towards green fuels, and boost decarbonization in the energy sector. 14 million households are now connected to natural gas and close to 480 thousand cars were converted to CNG as a cleaner & environmentally friendly fuel for sustainable mobility.

Natural gas usage has also expanded in other industrial sectors to increase its added value, including petrochemicals and fertilizers production.

<table>
<thead>
<tr>
<th>FY</th>
<th>Natural Gas (Million Tons)</th>
<th>Petroleum Products (Million Tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999/2000</td>
<td>14</td>
<td>23</td>
</tr>
<tr>
<td>2014/15</td>
<td>23</td>
<td>35</td>
</tr>
<tr>
<td>2020/21</td>
<td>31</td>
<td>38</td>
</tr>
<tr>
<td>2022/23</td>
<td>32</td>
<td>50</td>
</tr>
</tbody>
</table>
More than 3 Folds Increase in Natural Gas Consumption (%)  

<table>
<thead>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>62</td>
<td>35</td>
<td>48</td>
<td>52</td>
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<tr>
<td>Petroleum Products</td>
<td>38</td>
<td>64</td>
<td>64</td>
<td>36</td>
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</table>

More than 20 Folds Increase in Natural Gas Consumption (%)  

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<th></th>
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</thead>
<tbody>
<tr>
<td>Energy Efficiency Projects</td>
<td>67</td>
<td>63</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Operational Optimization</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Energy Load Management</td>
<td>3</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Eliminating Waste in Utility Systems</td>
<td>12</td>
<td>12</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>Water Re-use and Recycling</td>
<td>6</td>
<td>6</td>
<td>16</td>
<td>1</td>
</tr>
<tr>
<td>Heat and Power Integration</td>
<td>3</td>
<td>4</td>
<td>10</td>
<td>7</td>
</tr>
</tbody>
</table>

**Energy Efficiency Projects**  

- Completed Projects: 247  
- Total Investments: $1.45 billion  
- Emission Savings: 0.9 mmt CO₂  
- Energy Saved: 4 GW/y

**The Energy Efficiency Projects Include:**  
- Operational optimization  
- Energy Load Management  
- Eliminating waste in utility systems  
- Water re-use and recycling  
- Heat and power integration

**Annual Energy Saving:**  

- Value Saved: $115 million/y  
- Through Applying No/Low-Cost Energy Efficiency Measures

**3. Energy Efficiency**  

Egypt’s oil & gas sector considers energy efficiency as the first fuel and the most cost effective way to achieve emission reductions. The sector has managed to achieve significant successes and achievements under the Energy Efficiency Domain.

For effective governance, the Ministry established a robust institutional setup for Energy Efficiency across the sector companies to enhance and support energy efficiency activities. In this regard, the MOPMR inaugurated the Center of Excellence of Energy Efficiency and Process Optimization, which will provide its services to improve energy efficiency in all energy sectors within Egypt and Africa. The Ministry also organized three editions of the “Egyptian Petroleum Energy Efficiency Conference” while the fourth edition preparations are ongoing. This is in addition to developing an energy efficiency capacity building plan for more than 1,000 trainees, and implementing the first energy efficiency middle management program for 247 Engineers. It also established a database for Energy Consumption and Emissions covering all sector operations. Moreover, it implemented five energy audits across refineries, upstream and petrochemical companies that identified energy efficiency improvement projects with potential to reduce energy consumption and emissions by 15%.

**4. Decarbonization (Carbon Intensity Reduction)**  

The oil and gas sector is working to implement decarbonization projects to progressively lower the carbon footprint (carbon intensity) of the sector. The sector developed a six-year decarbonization projects plan with expected reductions of 8 million tons (mmt) of CO₂ equivalent with investments reaching $600 million.

In line with Egypt’s leading regional role in climate action, H.E. President Abdel Fattah El Sisi announced that Egypt joined the Global Methane Pledge in the oil and gas track at the Major Economies Forum on Energy and Climate Change in June 2022. A methane measurement campaign was also conducted in 2022, which covered six gas facilities and one tank farm. A second methane measurement campaign was also recently completed in more than 25 facilities. Egypt also endorsed the World Bank initiative of “zero routine flaring by 2030” and the oil & gas sector is cooperating with the World Bank program for “Global Gas Flaring Reduction (GGFR)” to achieve this...
target. In this respect, the sector succeeded in implementing more than 20 flare gas recovery projects. Reducing flaring is a key element of Egypt National Determined Contributions (NDCs) to achieve flaring GHG reduction of 65% in 2030 compared to BAU.

Carbon capture, utilization, and storage (CCUS) is also considered another key decarbonization solution as it refers to a suite of technologies that can play a diverse role in meeting global energy and climate goals, according to the IEA. The sector is collaborating with its strategic partners to implement CCUS projects.

5. Renewables & Green Petrochemicals

The oil and gas sector is actively working to boost the use of renewable energy across the sector’s facilities to reduce emissions and save gas for increasing its value-added use as well as LNG exports.

The sector is also working to implement pioneering projects for the production of bioenergy and green petrochemicals. Through its affiliate Wood Technology Company (WOTECH), the sector is contributing to support the government’s efforts to transform rice straw from an environmental challenge into an economic opportunity by producing medium-density fiberboard (MDF) wood. The produced MDF can cover part of the local market demand and will be used in various sectors like furniture, construction, and decoration. This is in addition to offering several job opportunities at Nile Delta’s Beheira governorate.

Moreover, Egyptian Petrochemicals Holding Company (ECHEM) and the UAE’s Rega Green Energy signed an memorandum of understanding (MoU) to produce algae oil, which is used in the production of bio-jet fuel and green naphtha for use in the production of environmentally friendly petrochemical products.

6. Hydrogen

Egypt has several assets and strong points for leveraging its hydrogen potential, including a strategic location with access to potential global markets in Europe and East Asia, significant renewable energy resources, well developed infrastructure, as well as capitalizing on Egypt’s human capital. Accordingly, low-carbon hydrogen will be an integral part of Egypt’s energy transition.

In this respect, hydrogen is a key pillar in Egypt’s oil and gas sector decarbonization pillars to capitalize on the sector’s expertise and potential across the hydrogen value chain. The MOPMR is supporting leading efforts to develop Egypt’s low-carbon hydrogen strategy in collaboration with an international leading consultant. Within this strategy, a vision was crafted to realize Egypt’s ambition to become a global leader in the low-carbon hydrogen economy.

To enhance collaboration with partners and share best practices, The MOPMR continues to cooperate with leading countries and entities to advance hydrogen efforts.

The Ministry co-signed a declaration of intent with the German Ministries of Economic Affairs and Climate Action, and Economic Cooperation and Development Cooperation in the field of green hydrogen, emphasizing the common goal of creating a suitable environment for sustainable economic and environmental development for both countries. The sector entities also signed a number of MoUs with leading organizations to cooperate in the field of hydrogen.

Furthermore, the Ministry is participating in the “Hydrogen for Development Partnership” that was launched by the World Bank during COP27, which aims for developing human capacity, regulatory solutions, business models, and technologies toward the roll out of low-carbon hydrogen in developing countries.

Most recently, a joint development agreement was signed with Scatec for the development of two hydrogen projects, namely production of green ammonia at Misr Fertilizers Production Co (MOPCO) facilities, and production of green methanol utilizing biogenic CO₂ from Egyptian bioethanol company.

### Projects & Measures

- **Projects & Measures**
  - **Energy Saved**: 50 KTPA
  - **Value Saved**: $1 million/y

### Main Green Petrochemical Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Production (KTA/y)</th>
<th>Investment Cost ($ million)</th>
<th>CO₂ Emission Reduction (mmt/y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio-Ethanol Production from Molasses</td>
<td>40 lactic acid</td>
<td>600</td>
<td>1.2</td>
</tr>
<tr>
<td>Bio-Ethanol Production from Molasses</td>
<td>75 polyactic acid</td>
<td>120</td>
<td>0.3</td>
</tr>
<tr>
<td>Sustainable Aviation Fuel</td>
<td>120 (US GAL)</td>
<td>200</td>
<td>0.2</td>
</tr>
<tr>
<td>Medically plates production (MDF) from Rice Straw</td>
<td>206,000 m³ MDF</td>
<td>300</td>
<td>0.4</td>
</tr>
</tbody>
</table>

### Total Green Petrochemical Projects

- **Investment Cost**: $1.2 billion
- **CO₂ Emission Reduction**: 2.1 MMTPA
SECTION 2: MINISTRY’S LOCAL, REGIONAL, AND INTERNATIONAL EFFORTS
GHG EMISSION REDUCTION

Egypt has made great strides toward reducing emissions in the local industry by ensuring the establishment of low-carbon infrastructure projects in industrial areas. Although Egypt’s share of global emissions is estimated at only 0.6%, one of the lowest globally, emissions and economic growth are tightly interlinked. Energy, transport, and industry sectors account for around 80% of Egypt’s GHG emissions, according to the World Bank.

In order to implement tangible projects across the six main decarbonization pillars, Egypt’s oil and gas sector was able to achieve emissions reductions of 5.4 million tons annually (mmt/y) of CO₂ equivalent. The sector is currently working to implement additional projects that could realize savings of 1.4 mmt/y of CO₂ equivalent. The sector can achieve cumulative savings of 6.8 mmt/y of CO₂ equivalent.

Major Completed Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Completed</th>
<th>Ongoing</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flare Gas Recovery</td>
<td>29 Projects</td>
<td>7 Projects</td>
<td>36 Projects</td>
</tr>
<tr>
<td>1,400 KTPA CO₂</td>
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<tr>
<td>65 MMWPD</td>
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<tr>
<td>$165 million</td>
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<tr>
<td>Energy Efficiency</td>
<td>247 Projects</td>
<td>2 Projects</td>
<td>249 Projects</td>
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<tr>
<td>900 KTPA CO₂</td>
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<tr>
<td>4 GW/y</td>
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<tr>
<td>$116 million</td>
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<tr>
<td>Renewable Energy</td>
<td>24 Projects</td>
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<tr>
<td>60 KTPA CO₂</td>
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<tr>
<td>900 KTPA CO₂</td>
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<td>25 million</td>
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<tr>
<td>$1 million</td>
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<tr>
<td>Natural Gas Delivery</td>
<td>14 Projects</td>
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<tr>
<td>14 Million Units</td>
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<tr>
<td>900 KTPA CO₂</td>
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<tr>
<td>2,150 KTPA CO₂</td>
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<tr>
<td>CNG Connection</td>
<td>500,000 Vehicles</td>
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<tr>
<td>14 Million Units</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>700 KTPA CO₂</td>
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| Major Ongoing Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Completed</th>
<th>Ongoing</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Flare Gas Recovery</td>
<td>7 Projects</td>
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<tr>
<td>380 KTPA CO₂</td>
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<tr>
<td>Energy Efficiency</td>
<td>2 Projects</td>
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<tr>
<td>340 KTPA CO₂</td>
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<tr>
<td>Renewable Energy</td>
<td>2 Projects</td>
<td></td>
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</tr>
<tr>
<td>700 KTPA CO₂</td>
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</table>

REGIONAL COOPERATION

EMGF Decarbonization Initiative

To leverage the synergies of regional collaboration to drive decarbonization, Egypt initiated efforts to develop a decarbonization initiative for the East Mediterranean Gas Forum (EMGF). The EMGF announced the “EMGF Decarbonization Initiative” as a leading model to further drive the decarbonization of natural gas resources in the region. The initiative aimed at identifying specific actionable recommendations along four main pillars, namely policies/regulations, financing, technologies, and capacities for developing a common unified regional East Mediterranean market promoting decarbonization.

Moreover, the EMGF published the “EMGF Natural Gas Decarbonization in the East Mediterranean Region” report. The report defines the current baseline and the future direction for the EMGF as a leading model to reach the ambitious goal of decarbonizing the region.

COOPERATION WITH MAJOR INTERNATIONAL ENERGY COMPANIES

Collaboration with all energy industry stakeholders is a key enabler to create synergies across the six pillars.

The oil and gas sector companies signed MoUs with many international companies from different countries specializing in energy transition, decarbonization, and hydrogen fields.

Moreover, there is coordination with major international institutions to support the sector’s efforts in the field of emissions reduction.
Underway Cooperation with International Institutions

- European Union (EU)
- US Department of Energy (DOE)
- World Bank (WB)
- International Energy Agency (IEA)
- European Bank for Reconstruction and Development (EBRD)
- United States Trade and Development Agency (USTDA)
- Japan International Cooperation Agency (JICA)

Egypt’s Ministry of Petroleum and Mineral Resources Efforts Toward a Decarbonized Future
SECTION 3: SHEDDING LIGHT ON COP27 DECARBONIZATION DAY
Egypt successfully organized the 27th edition of the Conference of the Parties (COP27) in Sharm El Sheikh in November 2022 which witnessed the participation of over 100 heads of state and government, and more than 50,000 people. COP27 came as a key opportunity for strategists and experts to have open discussions on decarbonization, energy transition, and policy-making. The international community praised Egypt’s success in organizing the COP27 climate conference.

Egypt’s oil and gas sector is a strong advocate for the commitment of the energy industry to decarbonization to support the global efforts to overcome the energy trilemma. In line with this vision, and in close coordination with the COP Presidency, Egypt’s oil and gas sector succeeded in organizing the first ever “Decarbonization Day” as part of the official thematic days at COP27. This was the first time ever in COP summits that those who participated in COP27 had the opportunity to take part in Decarbonization Day, a day that not only seeks to highlight the importance of decarbonization as a cause but was a clear demonstration of Egypt’s firm commitment to achieving the objectives of the Paris Agreement while pushing for a just energy transition.

MAJOR SESSIONS & BILATERAL MEETINGS

The Decarbonization Day was opened by H.E. Tarek El Molla, Minister of Petroleum and Mineral Resources, H.E. John Kerry, U.S. Special Envoy for Climate, and H.E. Gerd Muller, United Nations Industrial Development Organization (UNIDO) Director General. It covered eight sessions and showcased efforts, commitments, and enablers for accelerating decarbonization in hard-to-abate industries. This is in addition to 20 bilateral meetings with a number of ministers, officials from international companies, as well as leading experts from global and regional energy institutions.

PARTNERSHIPS & AGREEMENTS

Seven MoUs were signed between the oil and gas sector and a number of international companies specialized in the energy transition, decarbonization, and hydrogen fields. The MOPMR also signed an MoU with the EU in partnership with the Ministry of Electricity and Renewable Energy on green hydrogen.

KEY OUTCOMES OF EGYPT’S OIL AND GAS SECTOR’S PARTICIPATION

By the end of COP27, the oil and gas sector announced a number of outcomes as a result of the participation of the sector in COP27, as follows:

- Egyptian Petroleum Sector Energy Efficiency Strategy (2022-2035)
- Sharm El-Sheikh Oil and Gas Methane Reduction Roadmap
- Low Carbon Hydrogen Strategic Framework
- EMGF Decarbonization Initiative

**Sharm El Sheikh Oil and Gas Methane Roadmap**

Government and industry collaboration can translate strategy into implementation and accelerate methane emission reduction across the oil and gas value chain.

**Key elements of a methane emissions reduction roadmap**

<table>
<thead>
<tr>
<th>Program establishment</th>
<th>Methane emissions survey Awareness campaign</th>
<th>Gaps and barriers assessment Best practice sharing and capacity building Target setting Performance monitoring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement and reporting</td>
<td>Detection and rapid response</td>
<td>Measurement and quantification Reporting system</td>
</tr>
</tbody>
</table>

**Near-term impact**

- Next 12 months
- Beyond one year

**Medium-term impact**

- Next 12 months
- Beyond one year

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**7 Signed MoUs with International Companies**

- Shell
- Siemens
- General Electric
- Microsoft
- Toyota
- HiROC
- TotalEnergies
- SeaSplit
“The world will continue to need energy for survival, enhancement of living conditions, development, and economic growth. What is important now is to provide this required energy in ways that are more responsible, environmentally friendly, and with reduced impacts on the climate. The oil and gas industry has a vital role to play in this energy transition.”

“The first ever decarbonization day as part of official thematic days of COP 27th provided an opportunity for all the oil and gas companies and the other heavy industries to present their actual plans for positive climate action and emissions reduction across these industries.”
US Special Presidential Envoy for Climate

JOHN KERRY

“One of the principal things we need to do is focus in on where you get the best decarbonization. Methane is 80 times more damaging than CO₂ in the early life, for about a 20-year period. Methane is actually the simplest, easiest, fastest, and cheapest way to start getting reductions. Methane is responsible for half of the warming of the planet today.”

East Mediterranean Gas Forum’s Secretary General

OSAMA MOBAREZ

“The East Mediterranean Gas Forum supports governments’ decarbonization initiatives through the forum’s five roles, which include policy harmonization between governments, carbon certification for carbon development and management, offering financial advice, gathering information, and offering technical advice.”

CEO at OGCI Climate Investments

DR PRATIMA RANGARAJAN

“As we think about accelerating decarbonization, we need to think about the process and how we accelerate the adaption of new technologies.”
The emergence of a sustainable, low-carbon and circular economy is possible. The support of all stakeholders from governments, private sector and international organizations is essential to achieve this transition. The energy sector will play an essential role in the global energy transition. The Egyptian oil & gas sector is committed to continually advancing its decarbonization agenda to contribute to satisfying both local and energy demands with lower carbon intensity. The Sector will continue to collaborate with all stakeholders and partners to advance energy transitions that are both pro-climate and pro-growth. Moreover, the MOPMR will continue working to execute specific projects to realize its vision and strategy for emissions reduction to fulfill both local and regional energy demands while considering our environment.
Egypt’s Ministry of Petroleum and Mineral Resources

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