



## FONASBA annual Meeting Jordan 2023



### Green Maritime Transportation Seminar

*Speaker : Medhat El Kady  
VC Arab Federation of Chambers of Shipping*



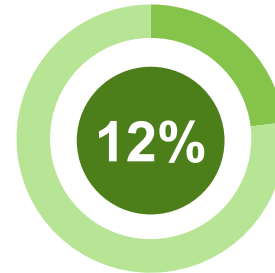
*Wednesday, 18<sup>th</sup> Oct.2023 10.00 – 12,00 Four Seasons Hotel, Amman , Jordon*

[www.arabfsc.org](http://www.arabfsc.org)

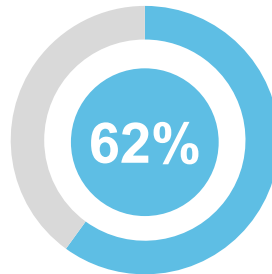


## The Value of Suez Canal for the World Maritime

· Over the course of 150 years of inaugurating the Suez Canal, 12% of the total world sea-borne trade transits the Canal.

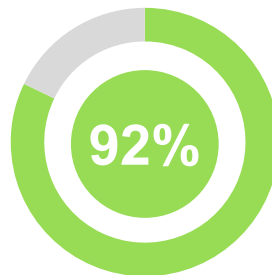


62.2% of the total world fleet of tankers (fully loaded)



100% of the total world fleet of container carriers, car carriers, and general cargo vessels.

92.6% of the total world fleet of bulk carriers (fully loaded)



100% of the total world fleet of the other types vessels.

# Why Green Strategy for SCA?

**1- Environmental Preservation:** preservation of the surrounding ecosystem and minimize negative impacts on marine life,

**2- Climate Change Mitigation:** As a major shipping route, the Suez Canal contributes to greenhouse gas emissions through vessel traffic. Adopting a green strategy would involve promoting energy-efficient technologies,

**3- Air and Water Quality Improvement:** The adoption of green practices can lead to improved air and water quality in the region. Strategies such as implementing emission

**4- Sustainable Infrastructure Development:** A green strategy for the Suez Canal can involve incorporating sustainable design principles in the development and maintenance of canal infrastructure.

**5- Reputation and Economic Benefits:** Embracing a green strategy can enhance the reputation of the Suez Canal as an environmentally responsible transportation corridor.

**6- Compliance with International Standards:** The maritime industry is increasingly moving towards eco-friendly practices, with international regulations and standards being established to address environmental concerns.

**7- Long-Term Sustainability:** The Suez Canal's long-term viability and relevance as a key global trade route depend on its ability to adapt to changing environmental and societal expectations.





# Suez Canal Green Strategy





الرقم : ٥٠٥  
التاريخ : ٢٠٢٣/٩/٢٦

السيد الأستاذ/ محمد مصيلحي

رئيس الإتحاد العربي لغرف الملاحة البحرية  
ونائب رئيس منظمة الفوناسبا العالمية

تحية طيبة ... وبعد

تهدى هيئة قناة السويس لسيادتكم خالص التحية والتقدير وتتمنى لسيادتكم دوام  
النجاح والتوفيق .وبالإشارة إلى خطابكم رقم EM.6.9.023 بتاريخ ٢٠٢٣/٩/٦ ، المتعلق بموافاتكم  
بالإستراتيجية والخطة الخاصة بالتحول الأخضر ، نود أن نحيطكم علماً بالآتي :-

تعتمد هيئة قناة السويس إستراتيجية مستدامة لإعلان قناة السويس " قناة خضراء " بحلول  
عام ٢٠٣٠ ، تهدف هذه الإستراتيجية إلى دعم نقل بحرى أكثر ملائمة للبيئة وتحقيق التنمية  
المستدامة من خلال إقتصاد صديق للبيئة ، كما تشجع هيئة قناة السويس استخدام الوقود النظيف  
المحايد للكربون بدلاً من أنواع الوقود الأحفوري ، فضلاً عن أن مسار قناة السويس يحقق توفيراً فى  
الوقت والمسافة مقارنة بالمسارات البديلة ، مما يساهم فى خفض إستهلاك الوقود وانبعاثات ثاني  
أكسيد الكربون وتعمل هيئة قناة السويس على تطوير مراكز مكافحة التلوث وتعزيزها باستخدام  
أحدث المعدات التكاملية مع أنظمة المحاكاة المتخصصة فى إدارة حوادث التسرب البترولية . وقد  
قامت هيئة قناة السويس بإتخاذ عدد من المبادرات وإطلاق عدد من المشروعات التى تسهم فى تنفيذ  
هذه الإستراتيجية ، وهذه بعضها :-

- دعم جهود المنظمة البحرية الدولية " IMO " لنشر مفاهيم الإنتقال الأخضر للقطاع البحرى .
- دراسة تقديم حوافز للسفن التى تستخدم الطاقة النظيفة .
- استخدام أنظمة هجينة ( الخلايا الشمسية - توربينات الرياح ) لتوليد الكهرباء لمحطات الإرشاد  
للسفن على طول قناة السويس .
- وضع إستراتيجية لتحويل محركات وحدات أسطول قناة السويس البحرى لتعمل  
بالغاز الطبيعى .

- ٢ -

- تحويل تشغيل أسطول الهيئة البرى بالغاز الطبيعى والكهرباء .
- تطبيق معايير السلامة البحرية .
- تطوير مراكز مكافحة التلوث .
- إنشاء شركة مساهمة مصرية بشراكة كل من هيئة قناة السويس متمثلة فى شركتى ( شركة  
ترسانة السويس - شركة القناة للحبال ) وشركة Antipollution اليونانية .
- دراسة إنشاء أول مارينا جديد صديق للبيئة فى منطقة الشرق الأوسط .
- إطلاق مبادرة زراعة شجرة لكل سفينة تمر بالقناة بمعدل ٢٣ ألف شجرة سنوياً .

وتفضلوا بقبول فائق الاحترام والتقدير ،،،

رئيس هيئة قناة السويس  
فريق سيم وندرس  
٩١٢٦ ك ك ك  
( أسامة ربيع )SUEZ CANAL  
AUTHORITY



# Suez Canal

**Suez Canal Authority  
Goal & Strategy is to  
declare Suez Canal a  
Green Canal by 2030**





# SCA New Strategy

The Strategy adopted by the SCA, which puts the environmental dimension at the forefront of its priorities, which goes in line with the Egyptian state's directions to achieve sustainable development through a clear, eco-friendly economy as well as the International maritime Organization (IMO) to reduce emissions from shipping sector and encourage the trend towards running on clear, carbon-neutral fuels instead of fossil fuels







The Suez Canal Authority has implemented a new sustainable approach to introduce the Green Canal by 2030. This approach involves supporting the shift towards environmentally friendly practices, ensuring the smooth operation of global supply chains, initiating green projects, offering incentives for the use of green energy, adhering to environmental standards, reducing transit and waiting times, utilizing hybrid energy systems, converting marine engines to natural gas, implementing marine safety protocols, establishing pollution control centers, collaborating with waste management and recycling companies, creating an eco-friendly marina, and actively contributing to the reduction of CO2 emissions.



## **The Adoption of Sustainable Strategy announced by SCA as the GREEN CANAL 20230**

# Kitack Lim, the Secretary General of the International Maritime Organization "IMO":



Kitack Lim, the Secretary General of the International Maritime Organization (IMO), comments about the Suez Canal Authority (SCA) for its progress in promoting green energy adoption. The SCA has expanded its responsibilities to support sustainability in global supply chains. Notably, the development project in the southern sector has improved navigation. In recognition of these efforts, the IMO will establish a regional office in Egypt to accelerate the transition to green energy. Closing the cost gap between fossil fuels and green alternatives is crucial for maritime institutions. The Secretary-General emphasizes the significance of the Suez Canal's long-term strategy in driving green transformation in the industry.





**Supporting the efforts of the International Maritime Organization (IMO) to spread green transition concepts for the maritime sector**

**Studying the provision of incentives for ships that use clean energy.**

**Using hybrid systems (solar cells - wind turbines) to generate electricity for pilotage stations for ships along the Suez Canal**

**developing a strategy to convert the engines of the Suez Canal maritime fleet units to operate  
With natural gas.**



- Converting the operation of the Authority's land fleet to natural gas and electricity.
  - Implementing maritime safety standards.
  - Developing pollution control centers.
  - Establishing an Egyptian joint stock company in partnership with the Suez Canal Authority, represented by the two companies (Suez Shipyard Company - Canal Rope Company) and the Greek Antipollution Company.
- Studying the construction of the first new environmentally friendly marina in the Middle East.
- Launching an initiative to plant a tree for every ship passing through the canal, at a rate of 23,000 trees annually.

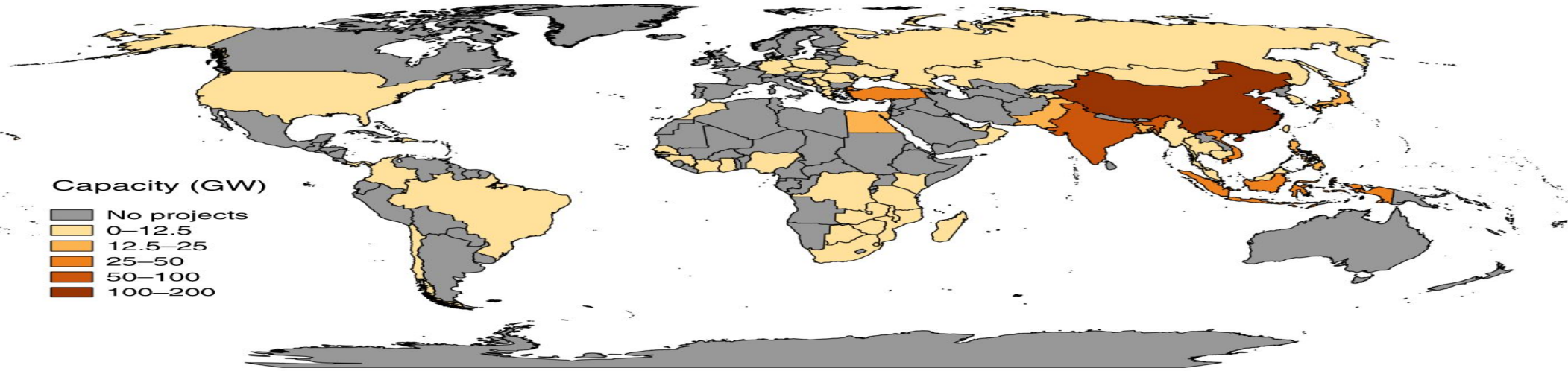
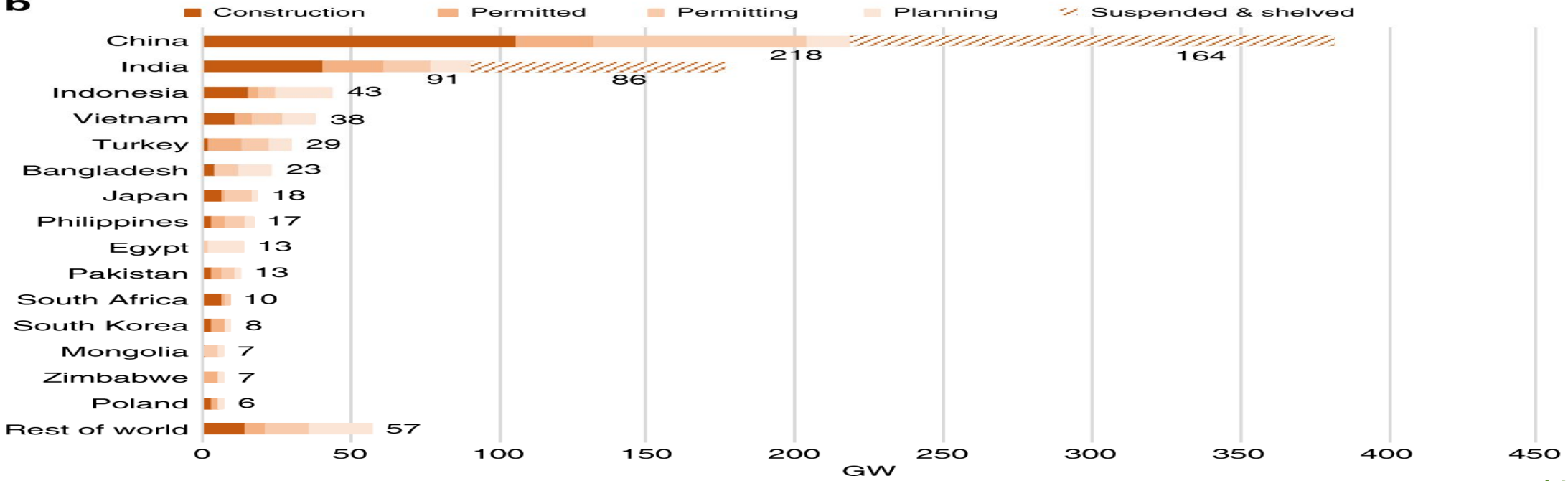




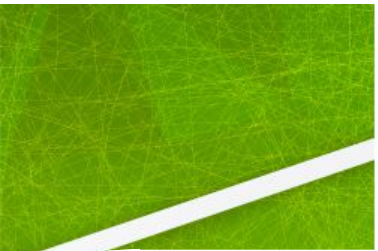


# The most prominent green projects in Egypt



**a****b**





## Solar power generation station

photovoltaic power station with a total capacity of 1650 MW nominal power which corresponds to an annual production of approximately 3.8 TWh. It is located in Benban in the western desert, approximately 650 km south of Cairo and 40 km northwest of Aswan

# Wind power generation Stations



The station for producing electricity using wind energy is located 350 kilometers from the Katameya-Ain Sokhna road leading to the city of Hurghada, along the western side of the coastal road leading to Hurghada, at kilometer 118 in the Gabal El-Zeit area after the city of Ras Gharib. The station area is 100 square kilometers and includes 300 wind turbines. The station construction project began in 2015





## Waste treatment stations

The solid waste station in Giza comes within a plan implemented by Egypt to convert solid waste into electrical energy in the governorates, targeting 16 governorates during the first phase, according to the Minister of Environment, Yasmine Fouad. Giza Governorate is scheduled to supply about 1,200 tons per day of solid waste to the station.





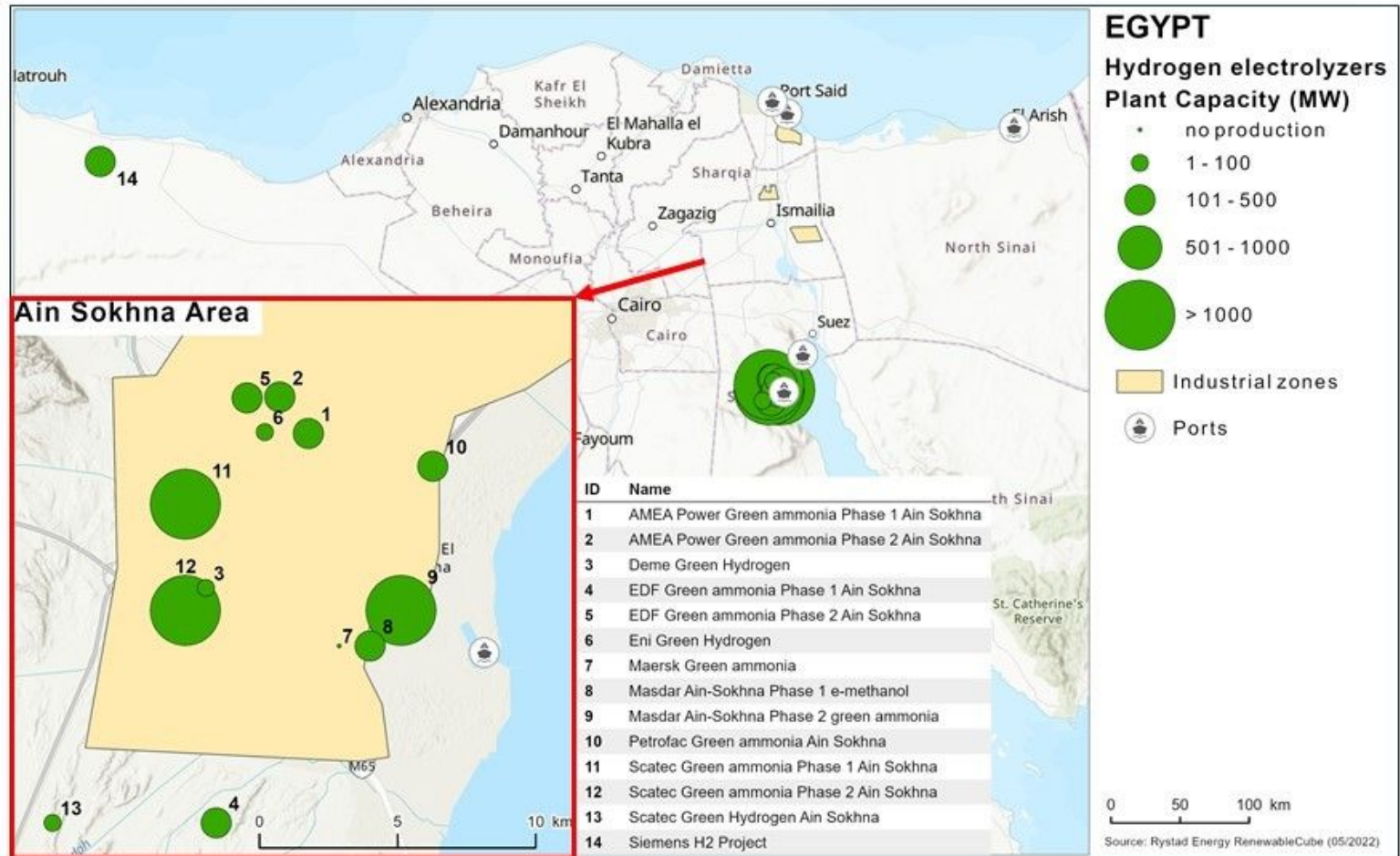
## Seawater desalination stations

The state has implemented desalination plants in the Matrouh and Dabaa regions, working to desalinate 100,000 cubic meters per day, in addition to stations in South Sinai, one of which purifies 20,000 cubic meters per day, and implementing the largest water desalination plant in the world in the Ain Sokhna region in February 2019, which works to purify 136,000 cubic meters

# Announced green hydrogen projects in Egypt



RYSTAD ENERGY



Source: Rystad Energy RenewableCube, Rystad Energy research and analysis



AIN SOKHNA  
**GREEN HYDROGEN  
PROJECTS**  
**H<sub>2</sub>**



**6**  
MOUs  
IN SOKHNA

**>10**  
BILLION  
DOLLARS

**THE NORWEGIAN SCATEC  
RENEWABLE ENERGY**

A green ammonia manufacturing facility with a capacity of 1 million tons per year (could be increased to 3 million tons).

**GREEN FUEL CONSORTIUM (EGYPTIAN "ZERO WASTE" + FRENCH "EDF RENEWABLES")**

Production of 350,000 tons of green fuel annually for ships bunkering.

**THE CONSORTIUM OF ABU DHABI FOR FUTURE ENERGY "MASDAR" + "HASSAN ALLAM UTILITIES"**

Production of 480,000 tons of green hydrogen annually.

**THE CONSORTIUM OF FRENCH "TOTAL" + EGYPTIAN "INARA CAPITAL"**

Production of 300,000 tons of green ammonia annually to reach one and a half million tons annually.

**MAERSK INTERNATIONAL**

Production of 480,000 tons of green hydrogen annually.

**AMEA POWER UAE**

Production of 390,000 tons of green ammonia annually.



# Suez Canal Welcomes World's First Green-Energy Powered Ship

Egypt signed on Sunday a joint development agreement with Norway's Scatec to establish the country's first green methanol production project in Damietta Port with investments worth around \$450 million.

"Major companies" are poised to invest \$83bn in green hydrogen projects in Egypt that could produce millions of tonnes of renewable ammonia and e-methane annually, according to the Cairo government.



**Maersk joins forces with the SCZone, The new green methanol-producing an agreement worth \$3bn with the Egyptian government to accelerate large-scale production of the Green methanol,, Egypt becomes First African Country to produce and Supply Green Hydrogen in Suez Canal**

# Suez Canal is GREEN for the World Shipping

## London – Mumbai



1- Via Cape Hope



2- Via Suez Canal







THANK YOU