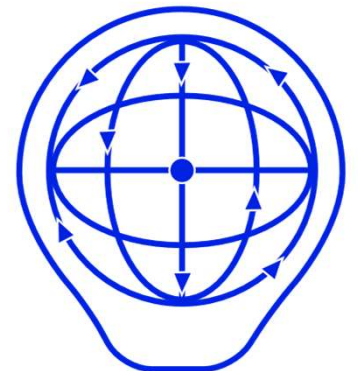


Netherlands Innovation Network

Connecting Innovation Worldwide

3rd Israeli Hydrogen Meeting

Racheli Kreisberg, PhD, racheli@nost.org.il



Netherlands
Innovation
Network

Who am I?

- ▶ Innovation Attaché, NL embassy in IL (2016-)
- ▶ EU collaborative research projects (2004-2017)



Born in NL



Immigrated to IL



Dutch Israeli H₂ projects



NL IL Hydrogen Activities in Israel 2023

- ▶ Horizon Europe and FCH-JU calls (small-scale H2V) (April 2023)
- ▶ NL H2 delegation to IL (June 2023)
- ▶ Israeli Women in Green Hydrogen event (June 2023)



Beyond the NL IL cooperation – NL Eastern Mediterranean Cooperation

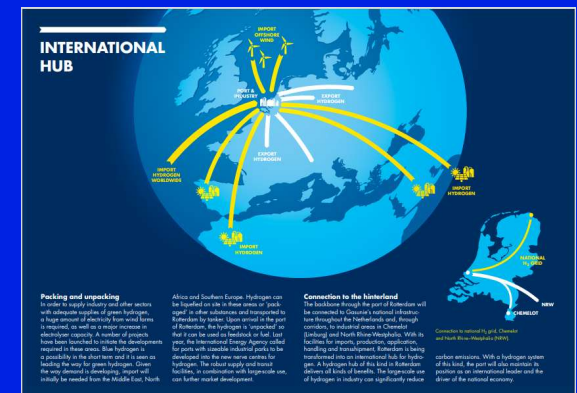
- [TEL] Energy related activities (i.e., hydrogen, natural gas) were mutually beneficial to both countries: IL provided NL with innovation, access to natural gas, desalination technologies, cybertech and a foothold in the MENA region for international cooperation. NL provided IL with knowledge, infrastructure, technology, and consulting services.



- ▶ IL serves as **gateway** between **green H₂** producing Gulf countries and Europe/NL through IL seaports and/or Mediterranean gas pipelines

The NL and Europe's Hydrogen Import Needs

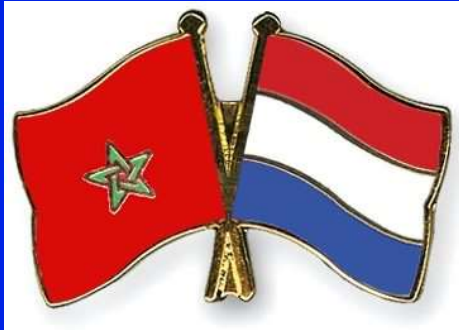
- ▶ Industrialized EU countries (i.e., NL, DE) need large amounts of green H₂
- ▶ Majority of green H₂ will be imported from countries that have a high capacity to produce it



The Role of large MENA countries

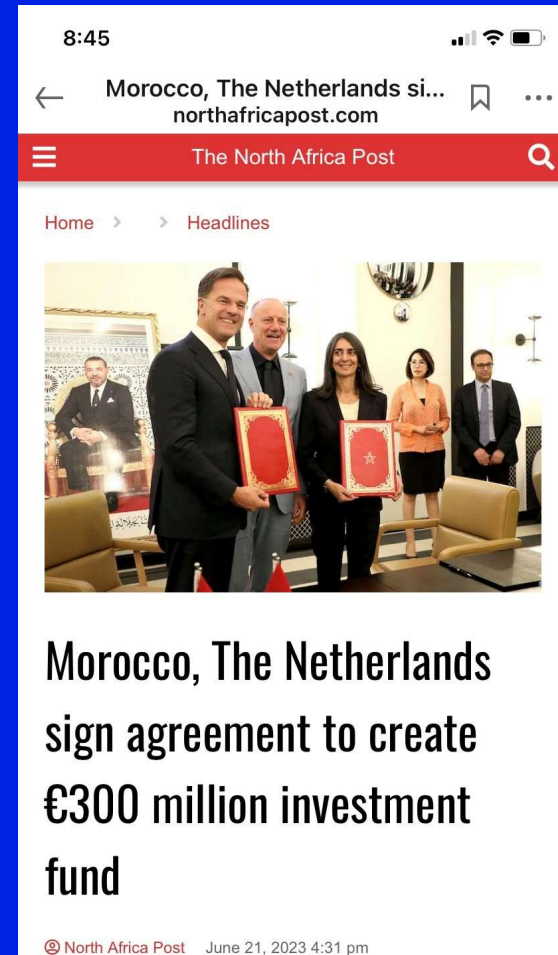
- ▶ Producing and transporting green hydrogen





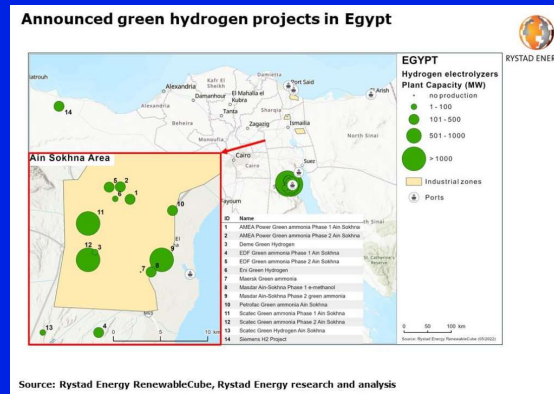
Morocco

- ▶ NL Morocco sign 300 ME investment fund - hydrogen (June 2023)
- ▶ **H2 Production:** green hydrogen production facilities



Egypt

▶ Green H2 projects in Egypt



▶ Hydrogen summit 13-14 Sep 2023

The image is a screenshot of the website for the "HES 2023 Hydrogen Egypt Summit". The website features a navigation menu with links for HOME, AGENDA, EXHIBITION, SPONSOR, PAST HYDROGEN, VENUE, REGISTER, and Media. The main banner reads "The Largest Events for Hydrogen Leaders in Egypt and Africa" and specifies the dates "13-14 September, 2023" and the venue "The Nile Ritz-Carlton, Cairo". At the bottom, there are statistics for the event: 2 Day Conference, 2000+ Attendees, 65+ Speakers, 500+ Participants, 150+ Government Officials, 40+ Exhibitors, and 500sqm+ Exhibition Floor. The website also lists official supporters and strategic partners, including the Egyptian government and various international organizations.

Egypt

- ▶ **Signing** of Egypt's first green H2 facility in the Suez Canal Economic Zone and the first integrated green hydrogen plant in Africa at **COP27**



- ▶ **Investment:** European Bank for Reconstruction and Development (EBRD) **US\$ 80 million loan** to develop the Egypt's first green hydrogen facility



Saudi Arabia

- ▶ MoU between NL and Saudi Arabia during the World Hydrogen Summit (WHS) in Rotterdam (May 2023)
- ▶ NL as partners for transferring the hydrogen to Europe
- ▶ **Investment:** NEOM Green Hydrogen Company (NGHC) \$8.4 billion agreement with banks and investment firms for a green H₂ production facility



The Role of Small EastMed Countries (Israel, Cyprus)

▶ Innovation

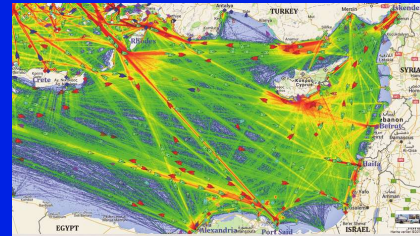


▶ Cybersecurity



The Role of Small EastMed Countries (Israel, Cyprus)

- ▶ Transferring green hydrogen - corridor, refueling



- ▶ Hydrogen valley




State of Mind

- ▶ Think BIG
- ▶ Fill the jar first with large and small stones





Summary

- ▶ Move into the regional hydrogen ecosystem (Egypt, Jordan, Cyprus, Greece)
 - ▶ Offer IL strength (innovation, cyber)
 - ▶ Host conferences (Energy & Business, Eilat Eilat)
 - ▶ Attend regional conferences (Hydrogen summit Egypt)
 - ▶ Interact with NL active in the region
- 



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