

The MEA region is home to more than 50 green hydrogen

The MEA region's green hydrogen ambition

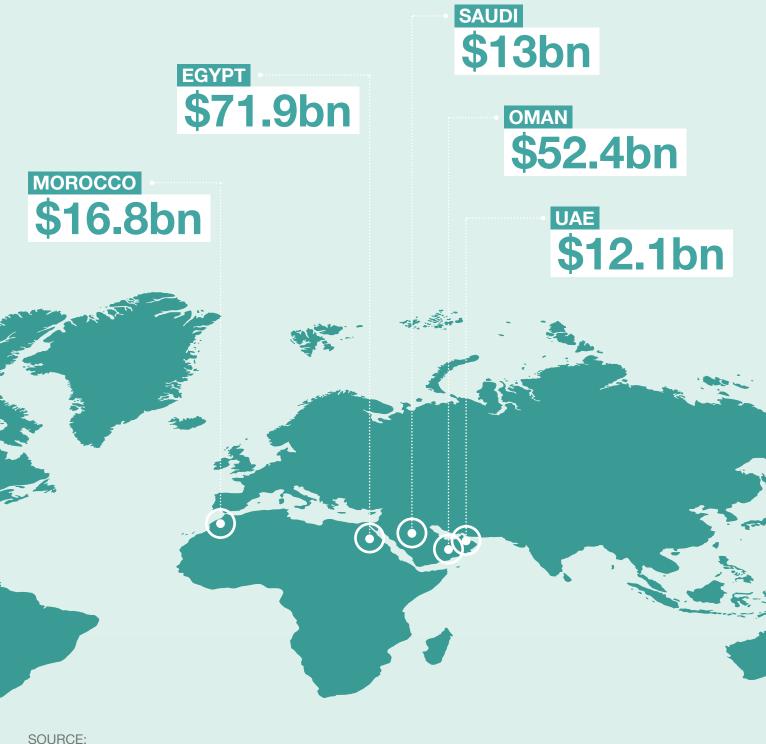
projects totalling estimated investment of at least

SOURCE: MEED GREEN ZONE INFOGRAPHIC 2022 WFES MIDDLE EAST WORLDS GREEN HYDROGEN HUB

TOP 5 COUNTRIES BY

INVESTMENT (\$)*

*Including green amonia projects



Regional radar

WFES MIDDLE EAST WORLDS GREEN HYDROGEN HUB

MEED GREEN ZONE INFOGRAPHIC 2022

NEOM Green Hydrogen Project \$8.5bn

commercially based hydrogen facility

World's largest utility scale,

Saudi Arabia

Oman

Green Energy Oman project

World's sixth largest green hydrogen project



@ Target

@ Target

per day (2026)

600 tonnes clean hydrogen

@ Target

200MW capacity (2025)

Up to 480,000 tonnes

2 – 2.5mn tonnes of green

per annum (2026)

Up to 1.8mn tonnes green

hydrogen per annum (2038)

Project Crystal \$5bn

EGYPT

\$10bn

\$16bn

UAE

\$28bn

Masdar and ENGIE green hydrogen facility

hydrogen plant projects

and Mediterranean coast

MOROCCO

Masdar/ENGIE green

2 plants: Suez Canal Economic Zone

AMUN green hydrogen project



@ Target

hydrogen facility



ammonia (2027)

@ Target

NEOM - GREEN HYDROGEN PROJECT ZAWYA - GREEN ENERGY OMAN MASDAR UAE - ANNUAL SUSTAINABILITY REPORT 2022 MASDAR EGYPT - LANDMARK AGREEMENT TO DEVELOP 4 GW FURTHER AFRICA - TOP 5 UPCOMING SOLAR PV PROJECTS MEED - REGIONS 155BN HYDROGEN PROJECTS REQUIRE FOCUS CWP - HYDROGEN **CWP - HYDROGEN**

Green hydrogen currently

constitutes just

35-65% of global hydrogen production however global low-carbon hydrogen demand is set to as manufacturing scales up and increase from below 1Mt in 2022 automation kicks in. to 223Mt by 2050. Sub-\$2/kg green hydrogen will be Soaring demand and plummeting

with a sub-\$1/kg figure realisable by 2050. SOURCE: WOODMAC - HYDROGEN THE US \$600 BILLION INVESTMENT OPPORTUNITY

ZAWYA - ANALYSIS MIDDLE EAST MEED - HYDROGEN AMBITIONS IRENA - ENERGY TRANSITION

WHY?

2040

achievable in most markets by

\$600

future capex costs present an

investment opportunity of at least

In the next decade, electrolyser

technology capex is expected to

drop by





Ready access to sea water

SOURCE:

STRATEGY & PWC - THE DAWN OF GREEN HYDROGEN



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