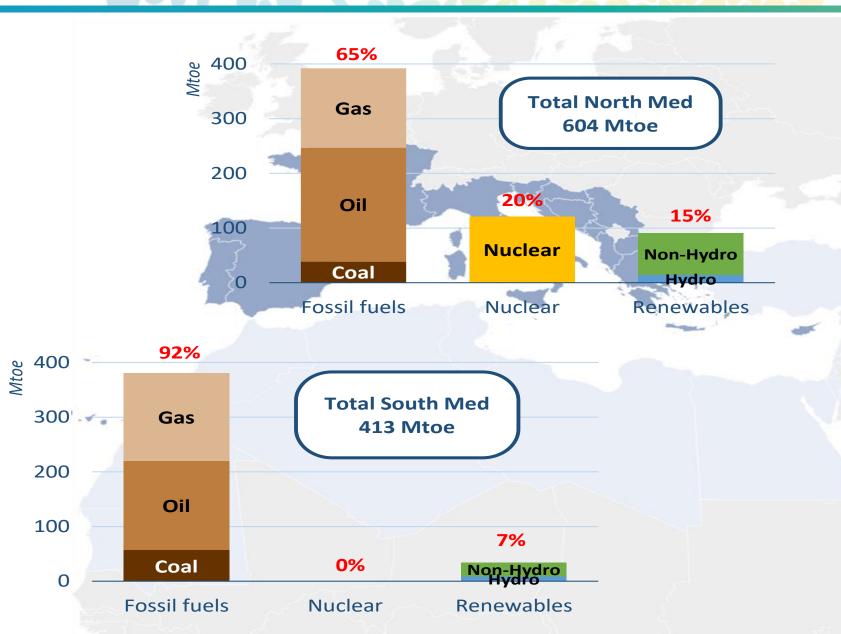


THE CURRENT MED ENERGY MIX





ENERGY DEMAND BY REGION





Despite NDCs in full in the North, demand would increase to over 1300Mtoe by 2050 in the Reference Scenario if the Net-zero carbon targets are not implemented in full.

And energy demand would more than double in the South compared to current levels.

MEP to 2050

THE MEDITERRANEAN AT RISK





increase in emissions in 2050

Already

increase in seawater temperature (up to +3.5°C by 2100)

+1.54°C

increase in air temperature: above the global average

(projection in 2040: +2.2°C versus +1.5°C global level)



increase in Fossil Fuel

Imports by 2050



A decrease of

in the pH of the ocean since the pre-industrial period, and a forecast of -0.4 by 2100



flooding and erosion



Low-lying coastal cultural heritage sites are threatened by



+4 trillion

Investment in energy to 2050



20%

faster than global average



of rainfall in spring/summer by 2080 and +10/20% of heavy rainfall events outside of summer

Increased fire risk through a longer fire season, increasing heatwaves and drought







between 0.43 and 2.5 m by 2100, depending on scenarios and projections. Increased risk for the 20 million people living below 5m of current sea level

Consequences

Oheat waves

Coastal erosion

() fires

Oinvasive species

Cacidification of the sea

modification of migrations and risk of extinction of certain species

quality aquaculture fishing

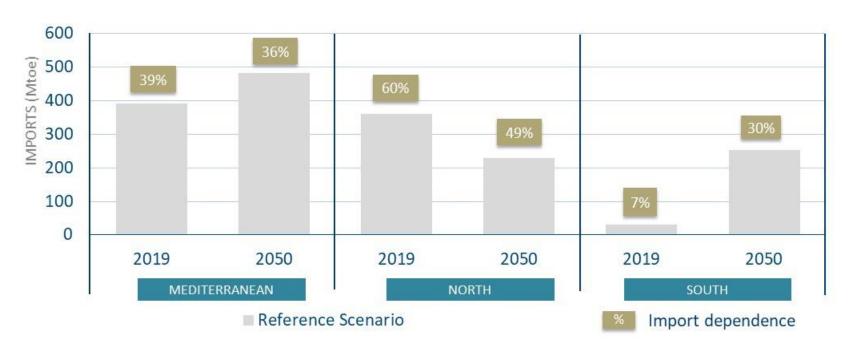
agriculture production



To consult the full report on the State of the Environment and Development in the Mediterranean and its information sources : www.planbleu.org/sced-

ENERGY SECURITY





It is not only climate change that is at stake but the energy dependence and the strains it already currently poses to the region.

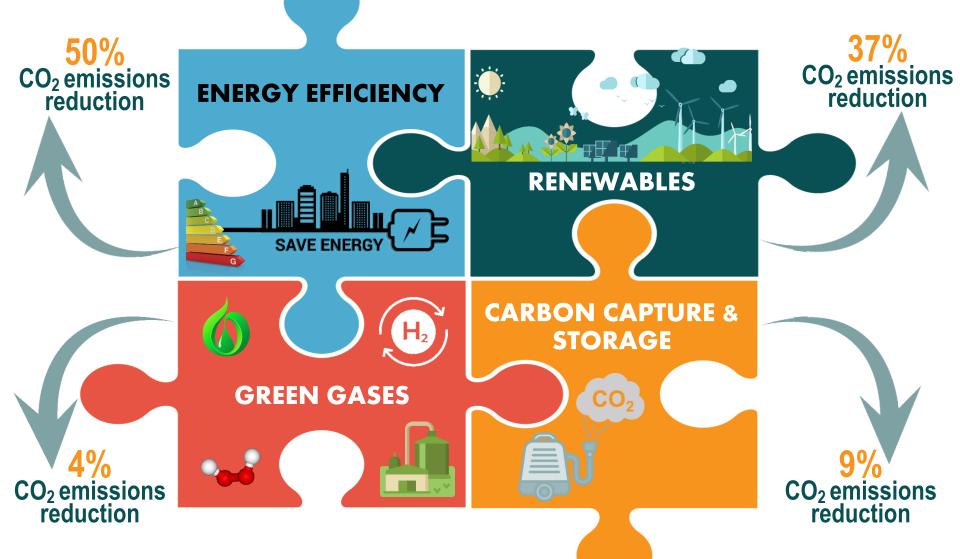
While the ratio will remain overall the same in the region the volume of fossil fuel imports will increase. The North will improve its dependence while the South will see it rise at alarming levels.

MEP to 2050

PATH TO A SUSTAINABLE, SECURE AND AFFORDABLE FUTURE

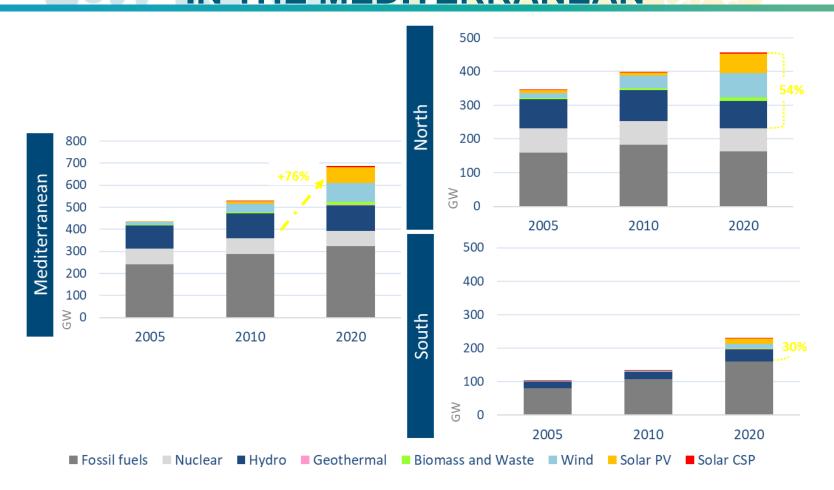


REACHING CARBON NEUTRALITY IN 2050



MEP to 2050

ELECTRICITY CAPACITY EVOLUTION OF THE MEDITERRANEAN Observatoire Méditerranéen de l'Energie



Renewable Electricity capacity development has significantly increased in the last 10 years in the Mediterranean, with more than 80 GW added in the North and almost 50 GW in the South

to 2050

awarded.

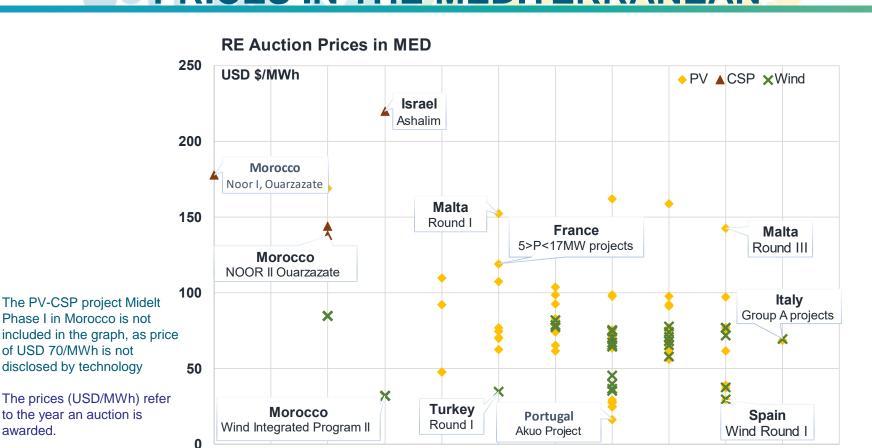
2012

2013

2014

2015

RENEWABLE ELECTRICITY AWARDED PRICES IN THE MEDITERRANEAN



Auctions are a key driver for competition - world record bid prices have been observed in the Mediterranean, especially for wind and solar PV

2016

2017

2018

2019

2020

2021

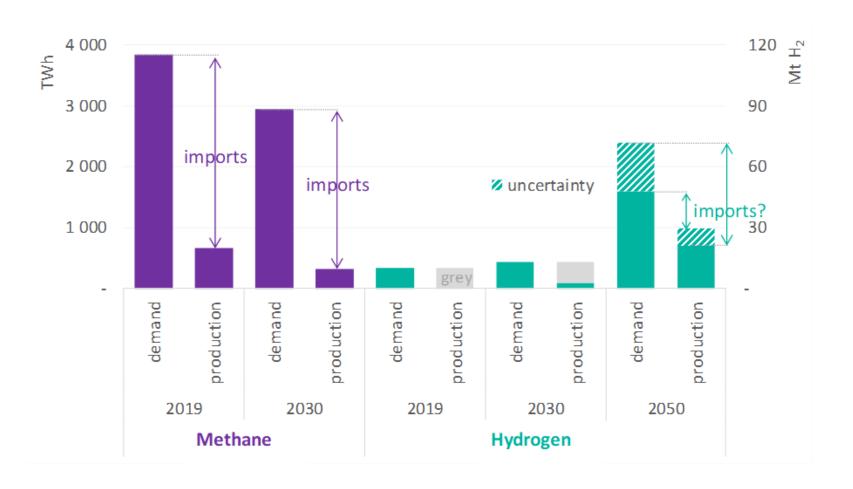
2022

2023

CSP has been on a stand-by during the last ten years, except projects in Israel and Morocco

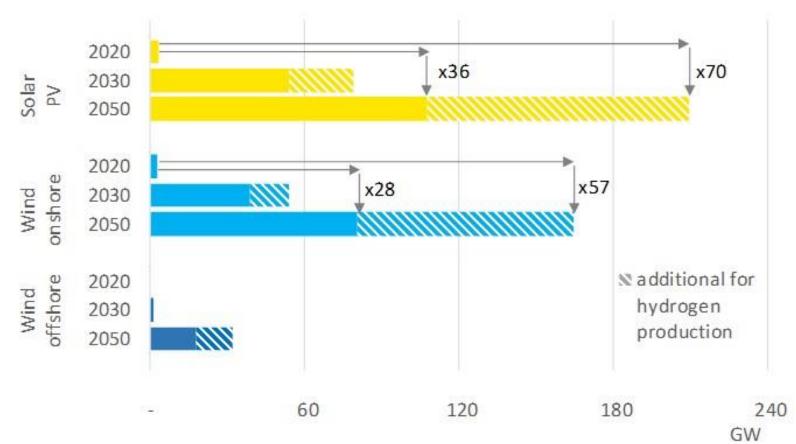
MEP to 2050

METHANE AND HYDROGEN DEMAND AND PRODUCTION IN THE EUROPEAN UNION Observatoire Méditerranéen de l'Energie



Huge demand expected but half of the demand needs to be covered by imports

MEP INSTALLED CAPACITY FOR SOLAR PV AND to 2050 WIND POWER IN NORTH AFRICA, 2020-2050 Observatoire Méditerranéen de l'Energie



To cater for domestic needs of RES in the South will be a challenge that could be doubled or tripled if exports are factored in

MEP HOW TO END EU'S DEPENDENCY ON to 2050 RUSSIAN FOSSIL FUEL IMPORTS?

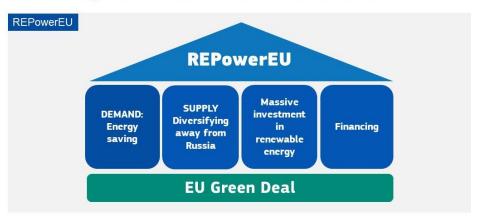


- REPowerEU (8 Mar 2022, 15 May 2022)
 - o to end of dependency on Russian fossil fuel imports
- Diversifying gas supplies,
 - via imports from non-Russian suppliers

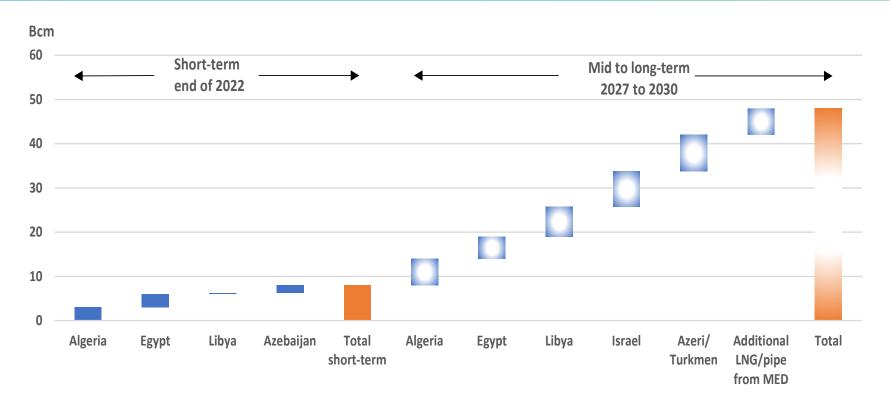
(LNG: +50 bcm; pipeline gas: +10 bcm or more

- Substitution with renewables, low carbon energy sources
- Energy efficiency and savings
- Financing

Getting rid of Russian fossil fuel



MEP Substantial additional export potential of the 100 from South & East MED plus Azerbaijan Servatoire Méditerranéen de l'Energie



Source: OME

Short term: at least 6 bcm

Mid to Long term: up to 50 bcm



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Thank you.