



**Dii**  
Renewable energy  
bridging continents

# **Long term optimal use of top-down, bottom-up and horizontal energy in EUMENA**

## *International Energy Conference*

**Paul van Son**  
CEO of Dii GmbH

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# Desertec vision: Use various clean energy sources from the deserts



**“Top-down”  
Solar energy**



**“Bottom-up”  
Natural gas (e.g. in  
hybrid power plants)**



**“Horizontal”  
Wind energy**



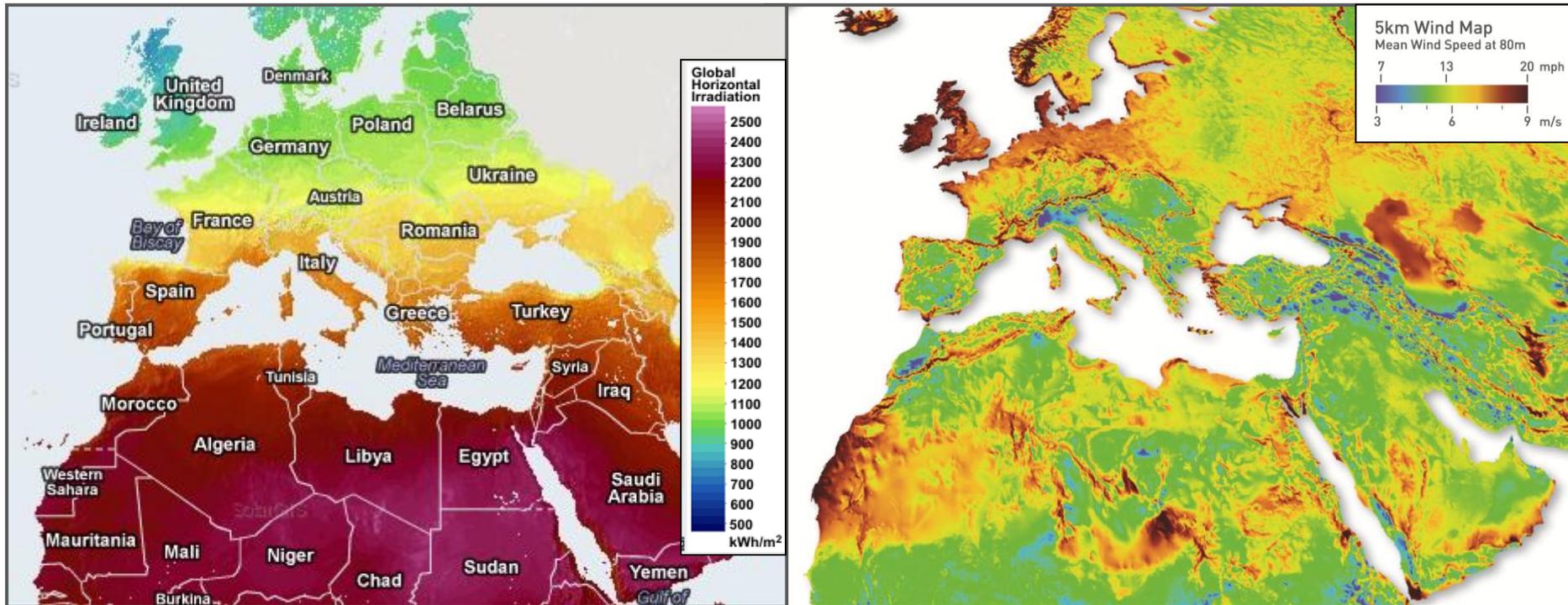
Source: Siemens Pictures

# The convenient message!

The MENA deserts will deliver a vast amount of solar and wind energy to hundreds of million of people in the future: it is economically, socially and technically feasible

## Solar potential

## Wind potential



Note: The boundaries, names shown and the designations used on the following maps do not imply official endorsement or acceptance by Dii  
Source: Solargis, 3Tier

# Dii is an international industrial initiative aimed at enabling the Desertec vision



## 21 Shareholders

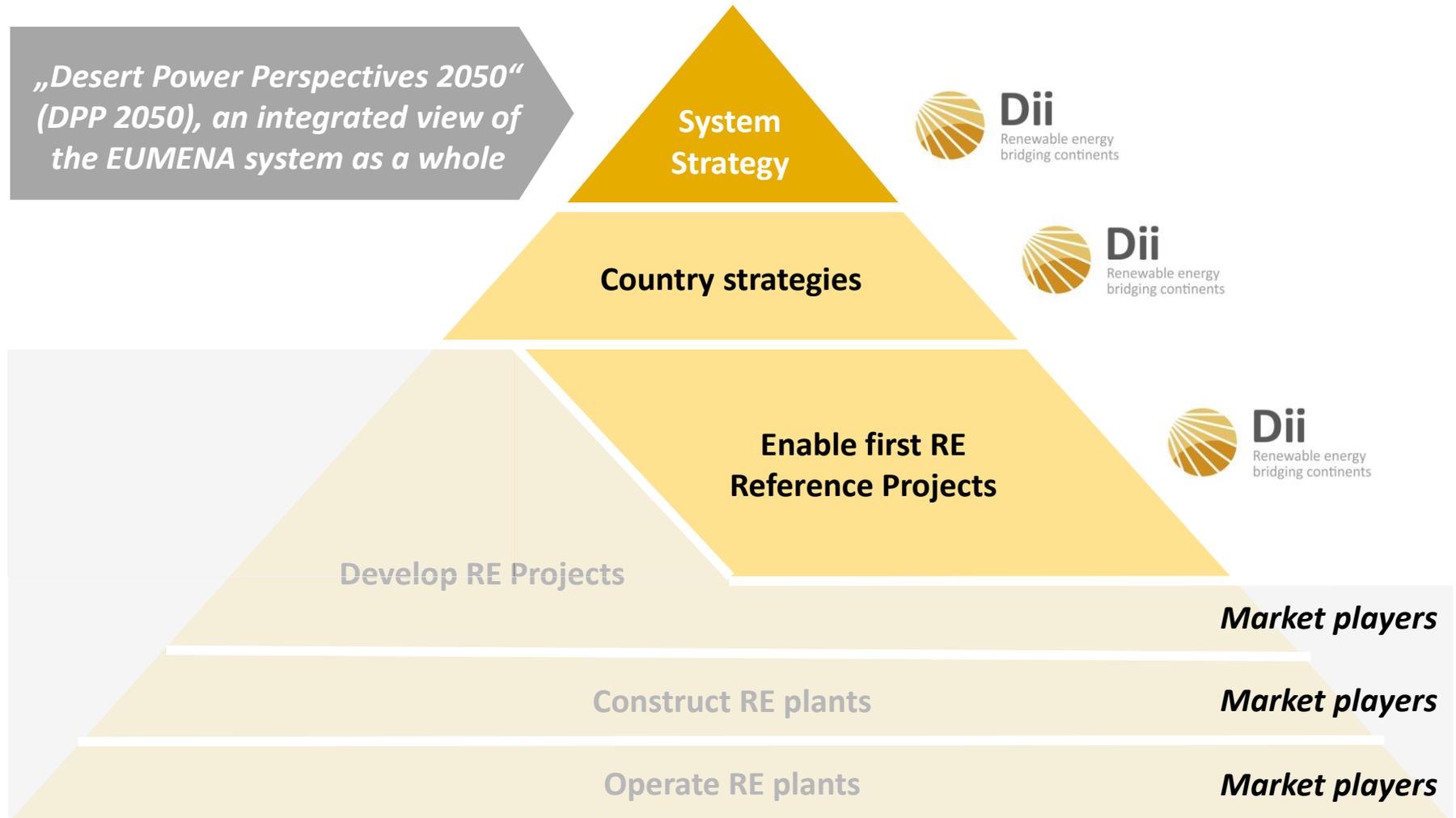


## 35 Associated Partners



# How will Dii help to create a market place for clean energy from the deserts?

*„Desert Power Perspectives 2050“  
(DPP 2050), an integrated view of  
the EUMENA system as a whole*

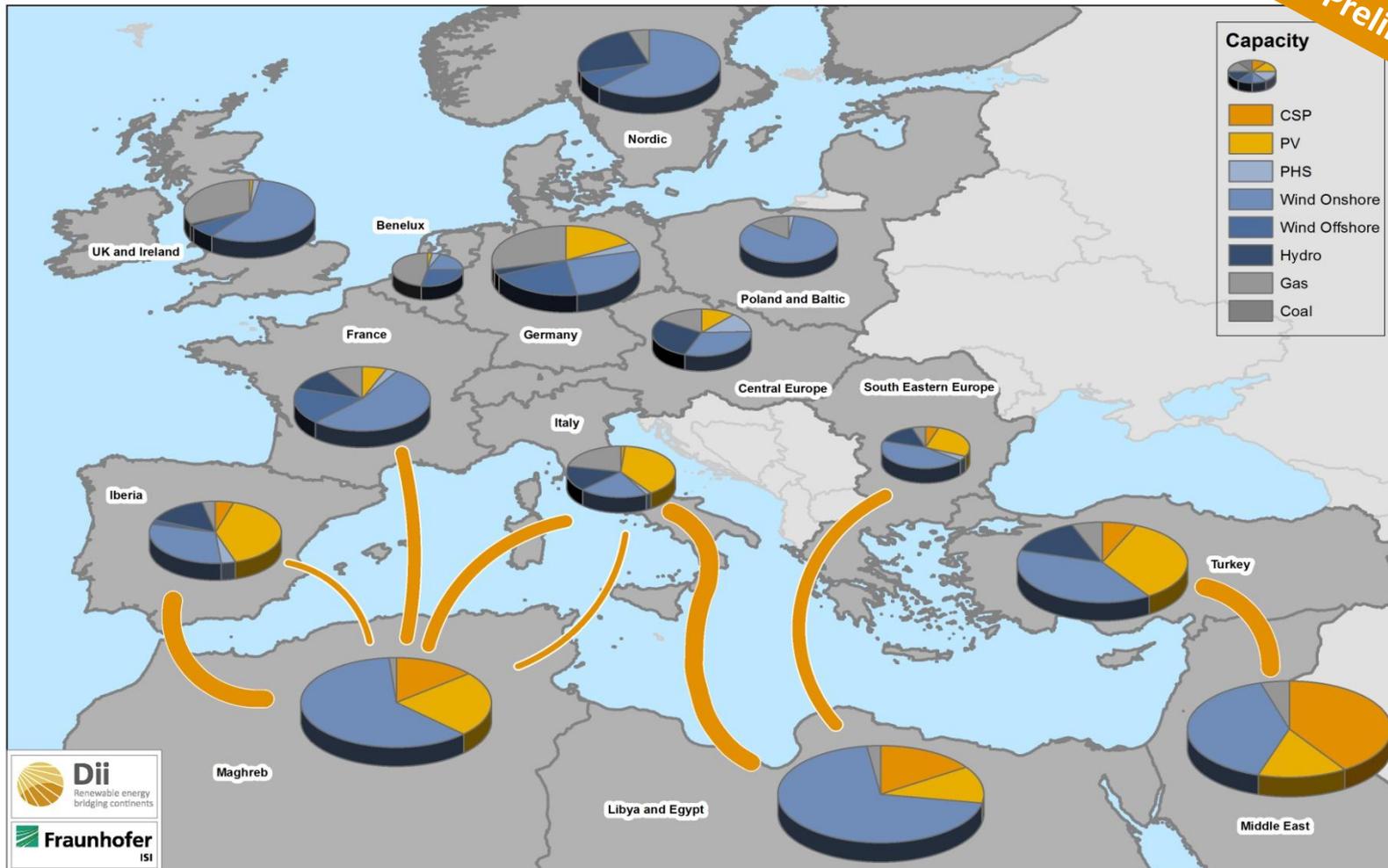


# All RE technologies will contribute substantially to the future energy mix



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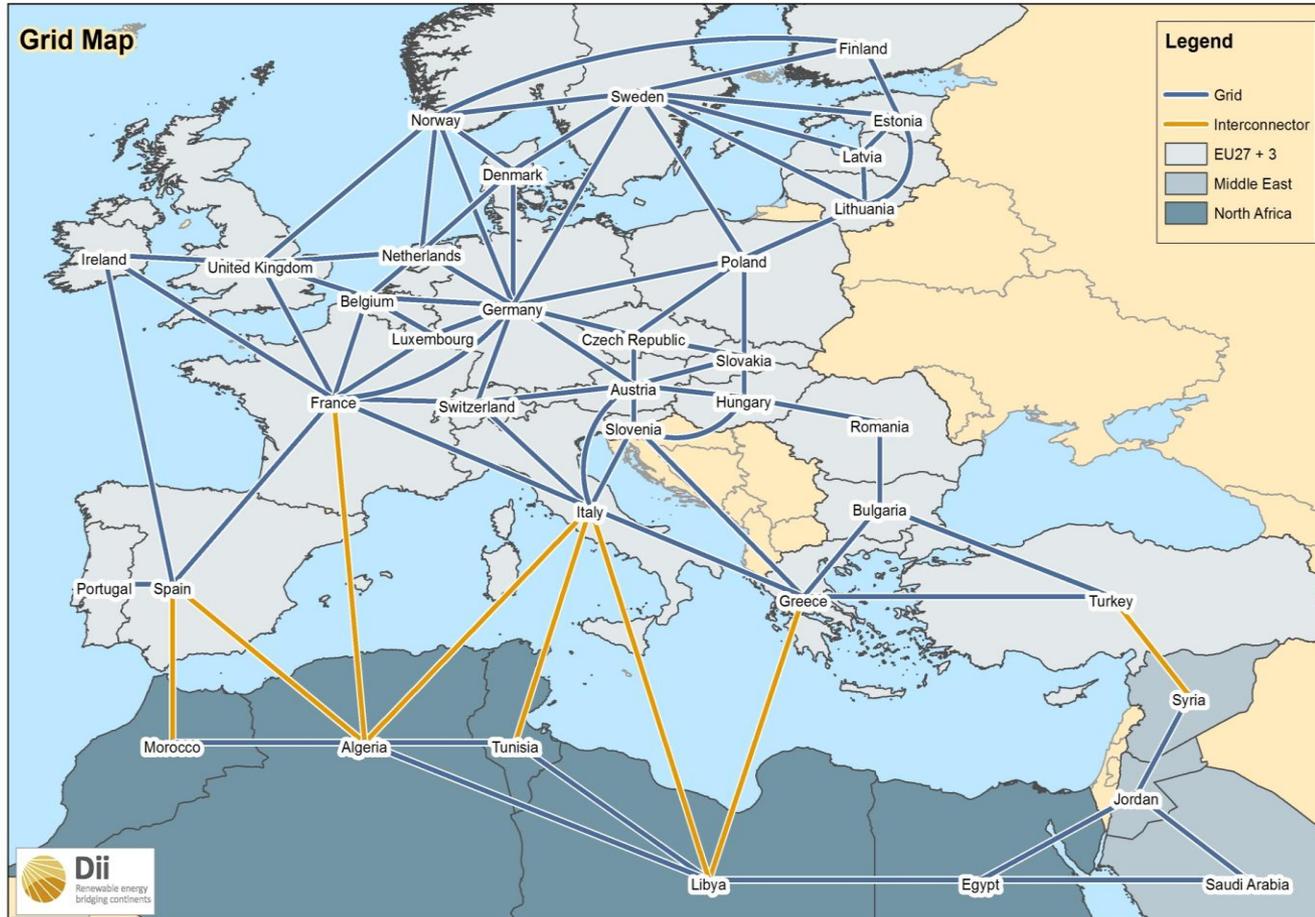
Preliminary





# No Transition without Transmission

Dii signed a Joint declaration “No Transition Without Transmission” with Friends of the Supergrid, Medgrid and Renewables Grid Initiative on a joint grid definition



Source: Dii, ISI Fraunhofer

# Regulatory framework: politics and industry teaming up to realize first projects



Large scale RE projects:  
regulatory framework  
necessary to create a **stable  
and attractive investment  
climate**

Standardized incentive  
schemes: learn from first  
pilots and implement a  
clear framework

Integration of desert  
power in the EUMENA  
electricity markets:  
**convergence** of energy  
policy with Southern  
Mediterranean countries

Various regulatory  
arrangements **to enable first  
projects** e.g. flexible  
mechanisms Art. 9

# Getting started now: originate 2-3 reference projects to prove feasibility

## Possible transmission routes for reference projects



Intensive talks to all other North African and Middle East countries continued

## Cooperation contents



Development of a Reference Project with 500 MW solar capacity (400 MW CSP, 100 MW PV) planned, to demonstrate, among others, the feasibility of the export of solar electricity to Europe.

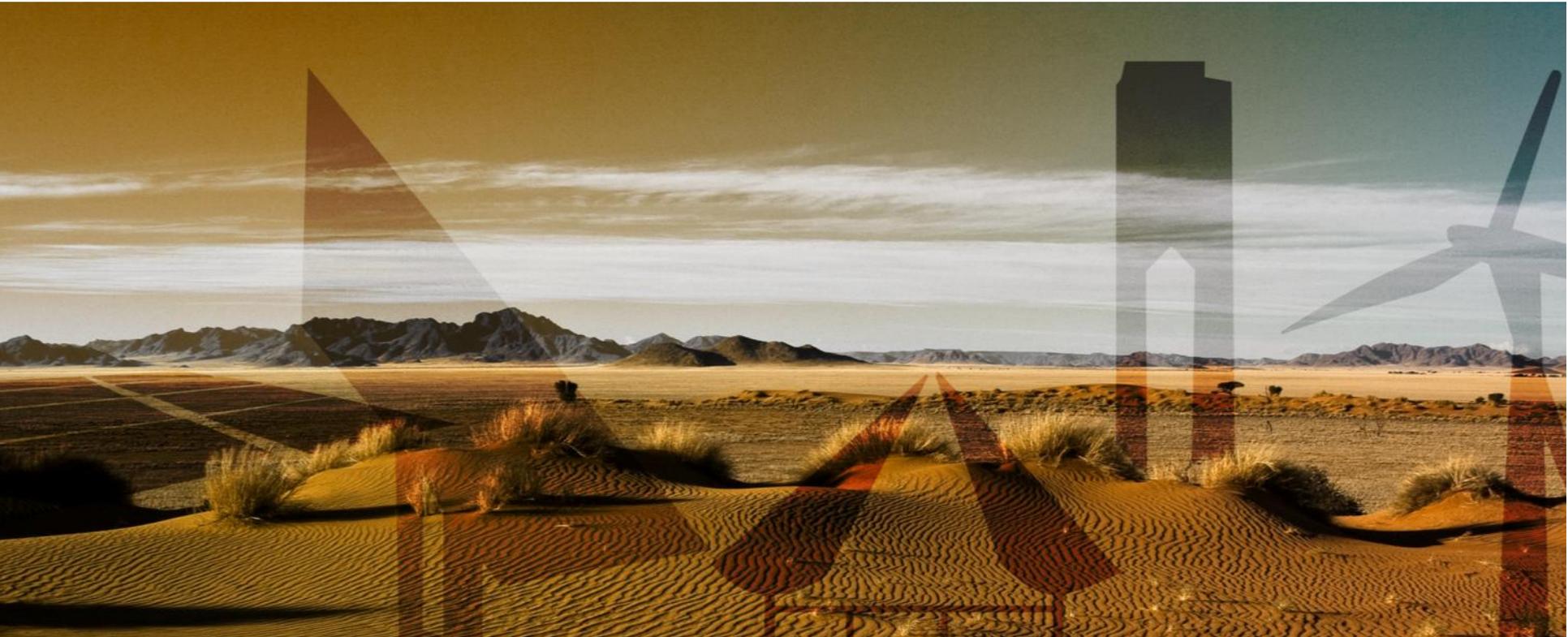


Exchange of technical expertise, issues of market development and support in the advancement of renewable energies in Algeria to promote industrial cooperation, and the creation of jobs.



Pre-feasibility study for a Reference Project for generating 500 MW from RE in Tunisia. Main topics of the study: RE potential in Tunisia, also as transit hub, possible Export, regulatory framework.

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**Thank you very much for your attention!**

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