



Initiative for Global Leadership in CSP

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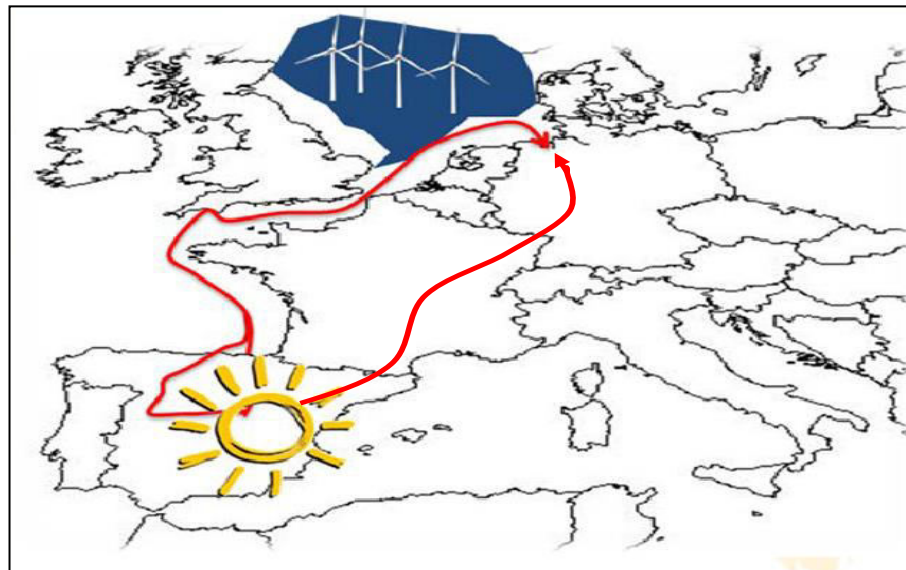
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ESTELA

CSP: renewable electricity on demand



- **Generation of electricity on demand (no variable output)**
- **Flexibility**
- **Back-up capacity to the grid**

CSP: renewable supply of electricity from CSP plants in Southern Europe to Central and Northern European countries

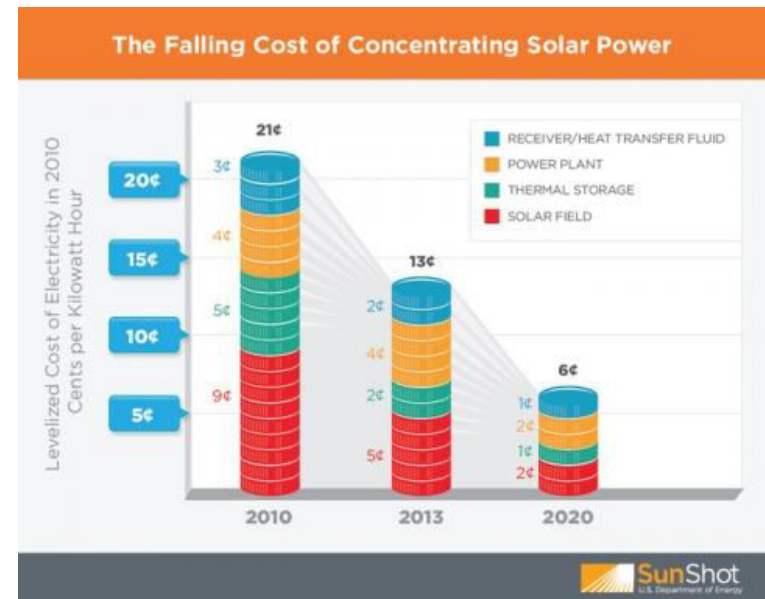


European CSP leadership...

- **50% of the global installed capacity is located in Spain**
- **Noor I plant (Morocco): approximately 40% of the EPC costs are concerned with supplies from Germany**
- **European companies suppliers of many plants outside Europe**

...but other competitors are becoming stronger

- **United States**
- **China**
- **Gulf region**



The aim is to maintain the European share in the market of 2050 (when CSP will deliver 11% of global electricity)

By 2020 component and system cost reduction of 20-40% is needed to achieve a LCOE below 12 cents€ with a DNI of 2050 kWh/m²/year (i.e. typical in Southern Europe)

- **Very focused R&I objectives**
- **Physical interconnections (target of climate and energy policy framework for 2030)**
- **Removal of regulatory barriers**
- **Creation of framework conditions**
- **Financing of First-of-a-Kind**



Initiative for Global Leadership in SolarCSP

OBJECTIVES FOR 2020

Increase Efficiency & Dispatchability and Reduce Cost



PPA < 12 c€/kWh

DNI 2050 kWh/m²/year (conditions in Southern Europe)

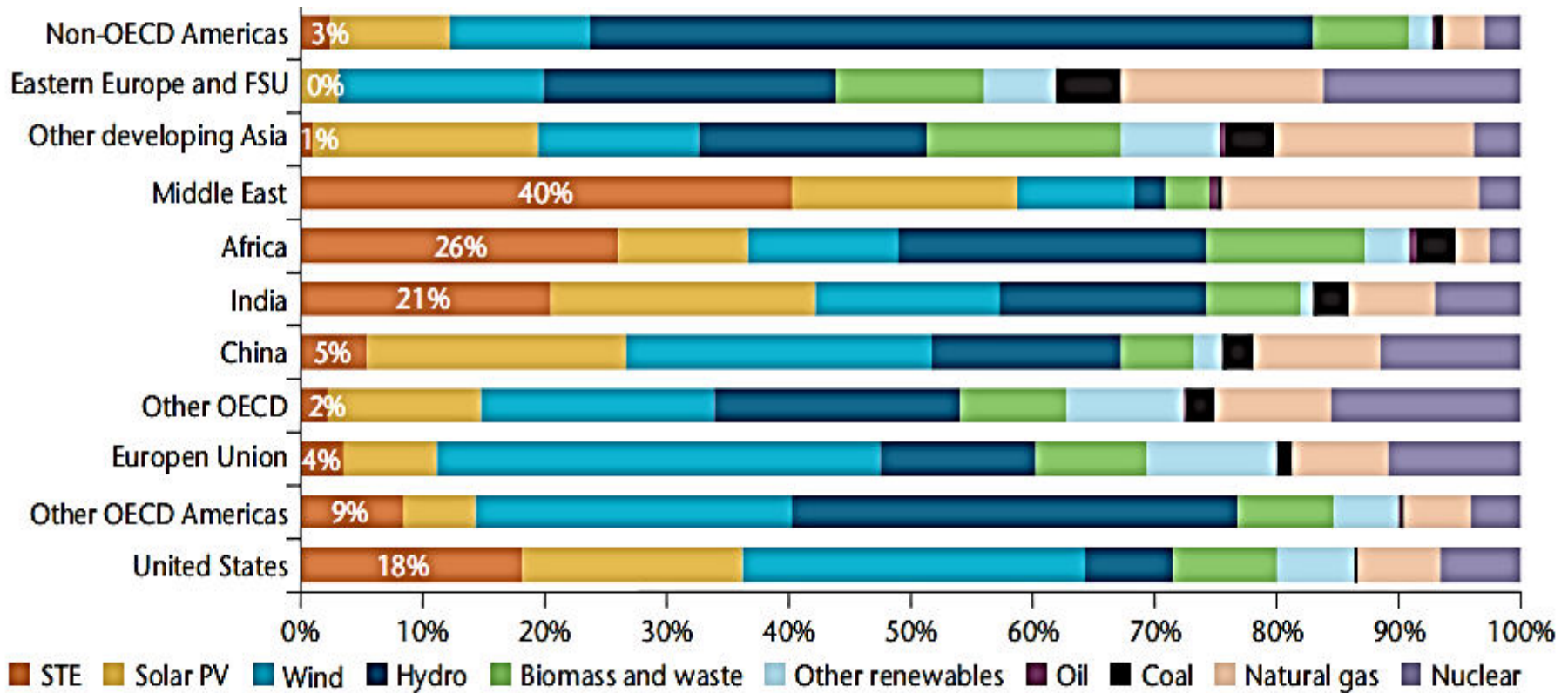
How to make the initiative on CSP happen

- **PPPP (EC + Industry + MS)**
- **H2020 + matching funding**
- **Address regulatory issues**
- **Financial instruments (FDP)**
- **Additional funding from industry**
- **Support internationalisation outside EU**
- **MS to invest in and deploy CSP**
- **Align existing programmes**
- **Use structural funds in the form of grants and/or financial instruments**

The first steps

- **Letter from ESTELA to Commissioner Moedas proposing the Initiative**
- **Reply of Commissioner Moedas suggesting co-operation with EC**
- **Energy Union Package (includes item on "Initiative on EU Global Technology and Innovation Leadership on Energy and Climate")**
- **Involvement of the MS from the outset**

IEA 2050 Roadmap



Study on innovative financial instruments for first-of-a-kind demonstration projects in the field of energy

- If study is positive and FDP pilot – successful, **interested MS** will be invited to complement EC/EIB funding via **providing guarantee money** (can be dedicated to projects in their countries).