EUROPEAN SOLAR POWER IN AN EVOLVING MARKET





30 years of Excellence & Leadership Copyright picture: Solarimpulse





Preparing tomorrow

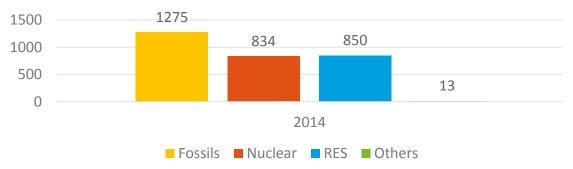




Renewables, a major power player in Europe today

In 2014 and for the first time, RES produced more power than nuclear in Europe

Power Production in the European Union (excl. Malta) in 2014, TWh Data: Entso-E





RES growth mainly driven by solar and wind







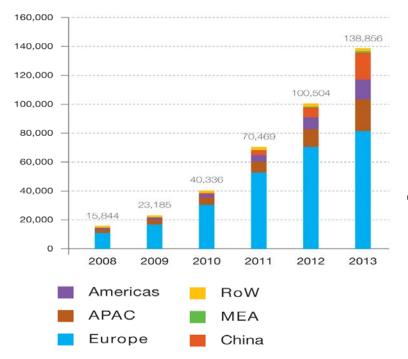
01

Status and outlook for solar power

"I think there is a world market for maybe five computers" Attributed to Thomas Watson – CEO of IBM in 1953



Solar power is becoming mainstream globally



+40 GW

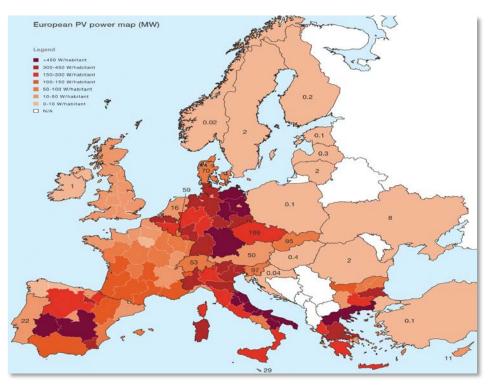
TOP 3 MARKETS IN 2014

CHINA JAPAN USA



30 years of Excellence & Leadership

Europe: the cradle of solar power



90 GW Installed

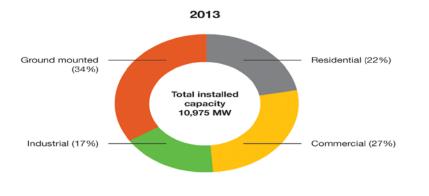
3,3% Electricity

4 MILLION SOLAR SYSTEMS

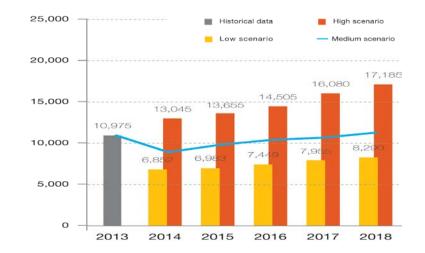


30 years of Excellence & Leadership

Solar power outlook in Europe



PV ROOFTOPS ≈ 66 % OF THE MARKET



THE EU MARKET IS STABILISING AROUND 7 GW, THIS TREND IS EXPECTED TO CONTINUE



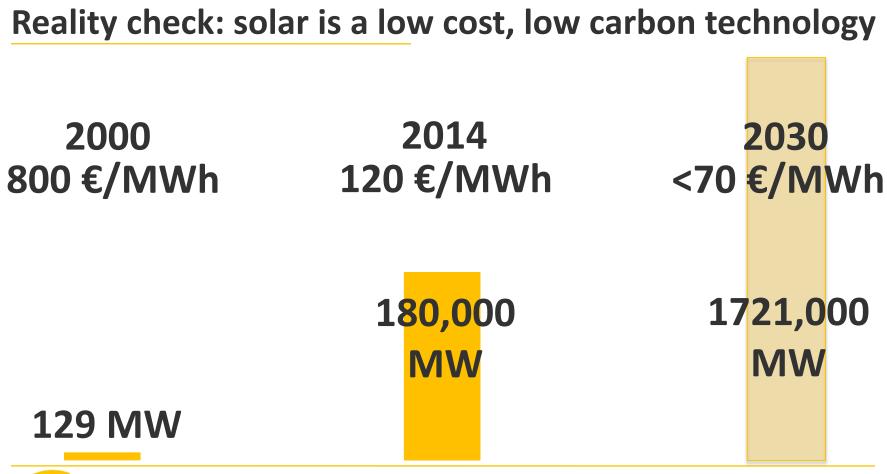
30 years of Excellence & Leadership

02

The European energy transition: survival of the fittest?

"It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is most adaptable to change" Charles Darwin – English Naturalist





EPIA ³⁰ years of Excellence & Leadership Source: EPIA Global Market Outlook 2014-2018, IEA PV TECHNOLOGY ROADMAP 2014

And what it means for the consumer



Source: Sharp



Unlock self-consumption potential

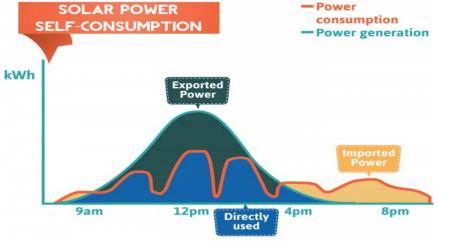
"OUR VISION IS OF AN ENERGY UNION WITH CITIZENS AT ITS CORE,

WHERE CITIZENS TAKE OWNERSHIP OF THE ENERGY TRANSITION

BENEFIT FROM NEW TECHNOLOGIES TO REDUCE THEIR BILLS

PARTICIPATE ACTIVELY IN THE MARKET"

The Energy Union, The European Commission, 25 February 2015



Source: SolarQuotes 2014

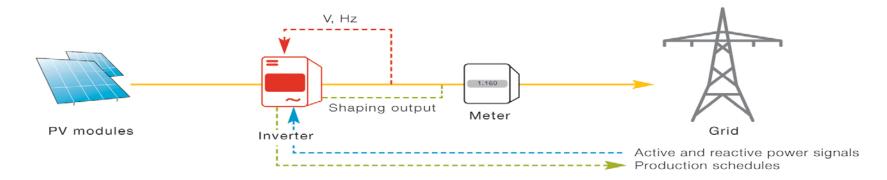


"The new energy world is about customer orientation, smart grids, renewables, distributed generation, and technical innovations"

Johanness Teissen, CEO OF E.ON



Solar power, a smart troublemaker for grids?



THE SECOND MOST DEPLOYED "SMART GRID TECHNOLOGY" AFTER SMART METERS

CHALLENGES TRANSFORMED IN OPPORTUNITIES



Ensure fair access to markets

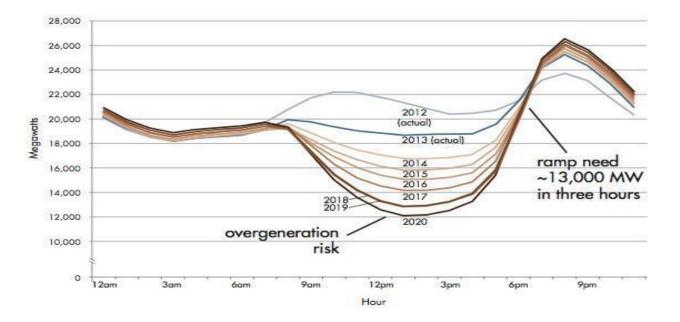


'No sooner landed, in his den they found the Triple porter of the Stygian sound, Grim Cerberus, who soon began to rear His crested Snakes, and armed His bristling hair.'

Virgil (describing Cerberus)



What we need: a much more flexible energy system



Example California: residual load development with increasing shares of PV



PAVING THE WAY FOR THE ENERGY TRANSITION

A look at your future: www.epia.org

For further information, please contact me: j.watson@epia.org

European Photovoltaic Industry Association Rue d'Arlon 69-71 - B-1040 Brussels, Belgium T +32 (0)2 709 55 20 - F +32 (0)2 725 32 50 info@epia.org - www.epia.org



www.epia.org