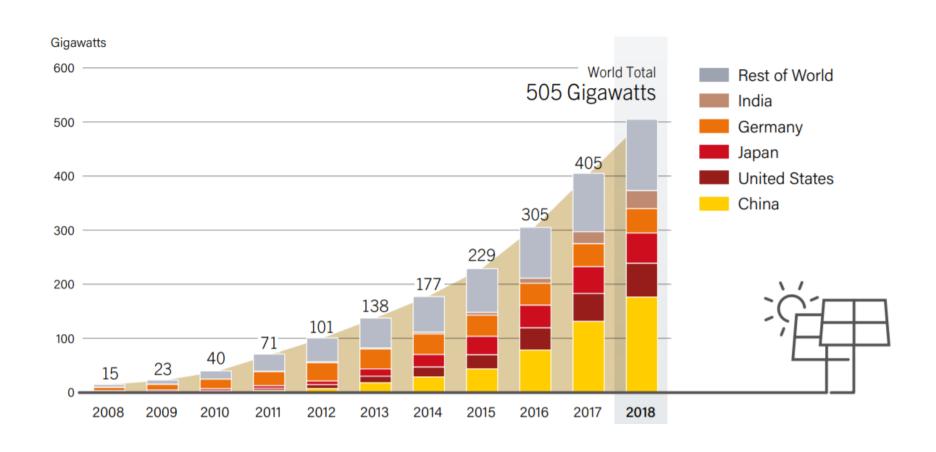
Fotovoltaico:

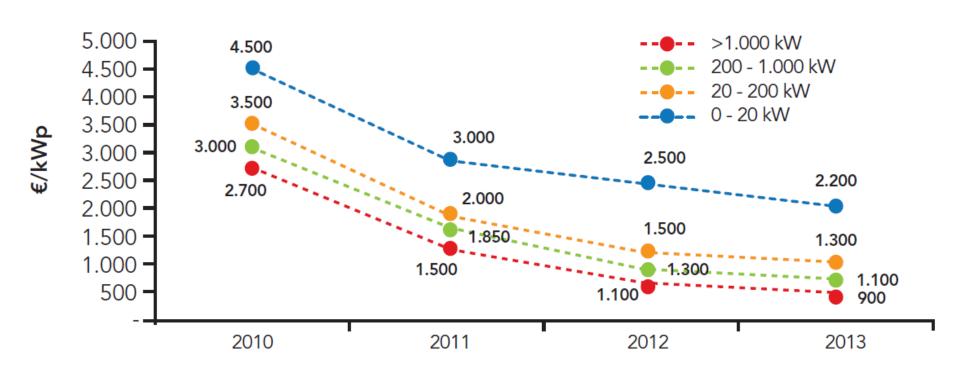
Conversione DIRETTA
di energia solare in energia elettrica
(gratis!)

PV global capacity



PV price reduction

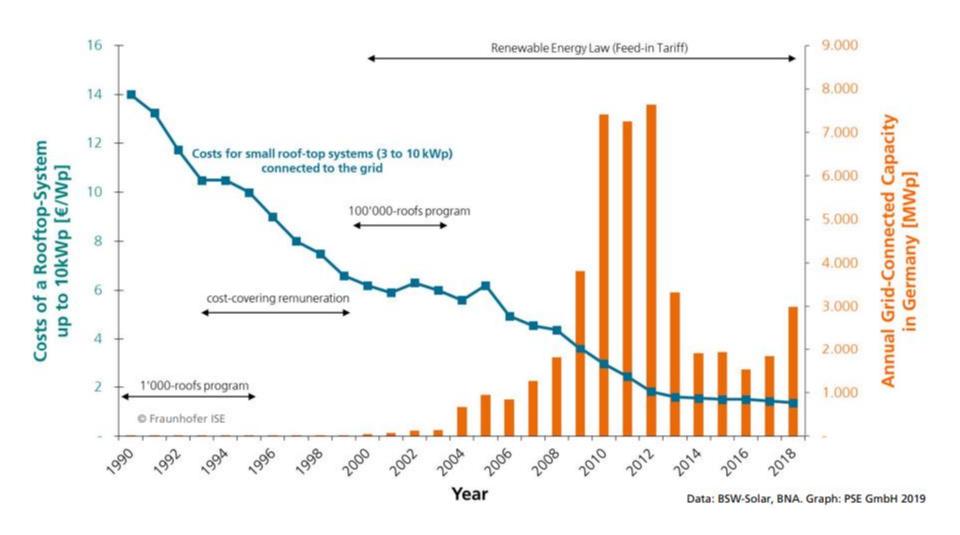
- example: turnkey PV installations in Italy -



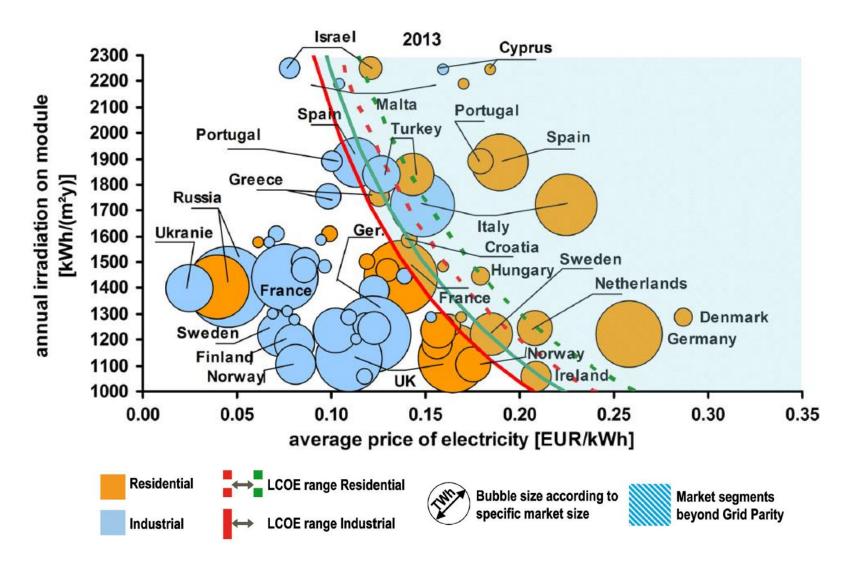
2010-2013: Price reduction of PV installation of 2 €/W

PV price reduction

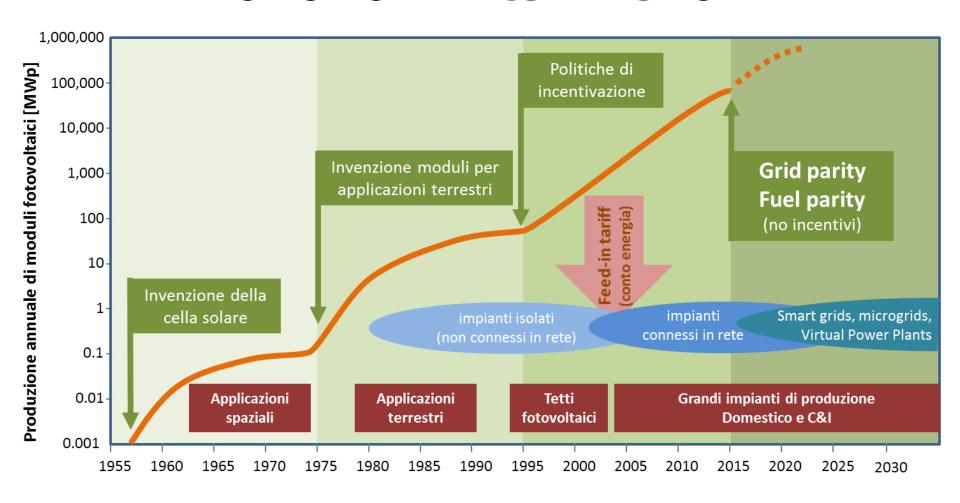
- example: rooftop PV installations in Germany -



Grid parity



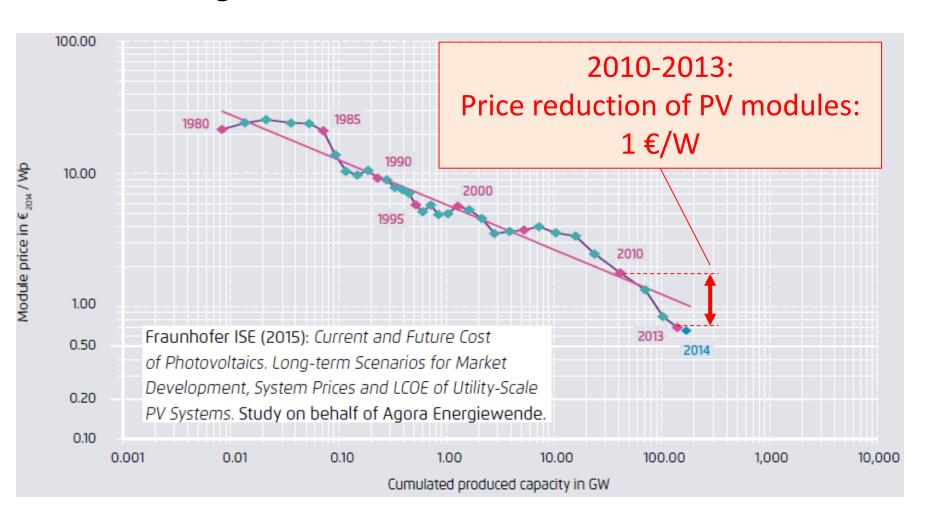
PHOTOVOLTAICS - HISTORY



During the third phase in the history of PV a fundamental milestone can be observed: THE GRID PARITY occurring in many countries of the world!!!

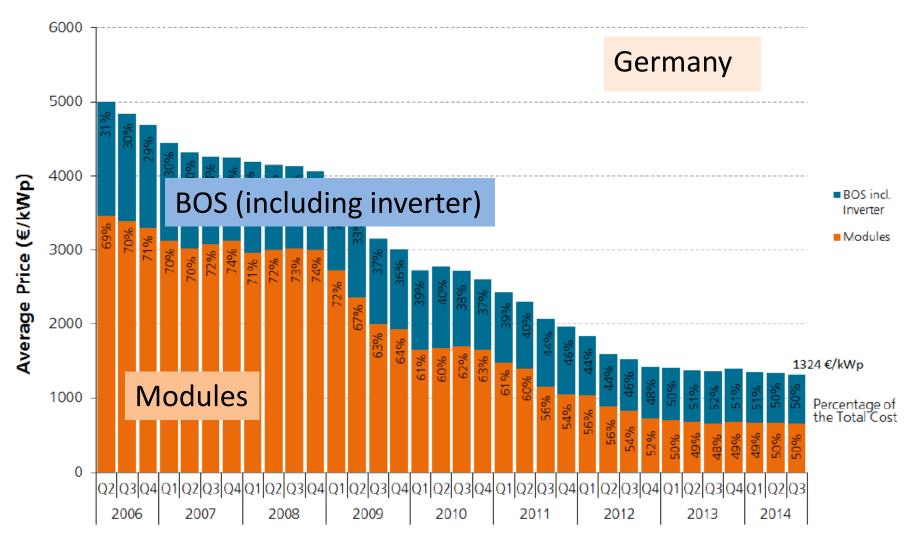
Price reduction of PV modules

- «learning curve» - the effect of the economies of scale -



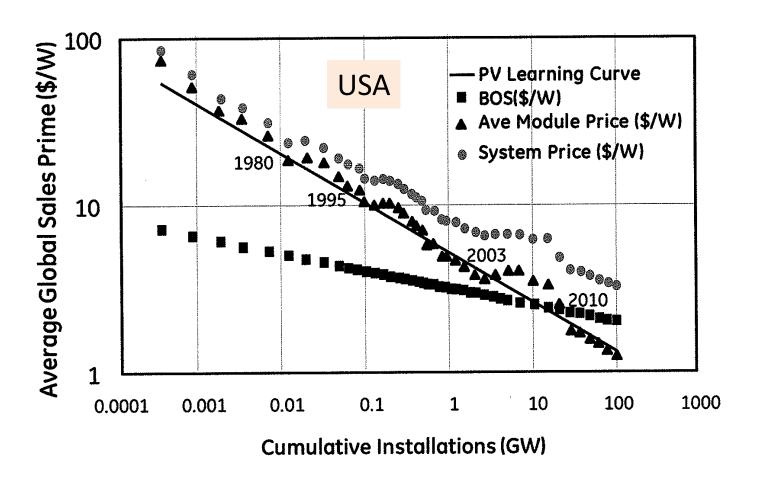
Role of Balance of System

- The cost of BoS today is comparable with that of the modules -



Role of Balance of System

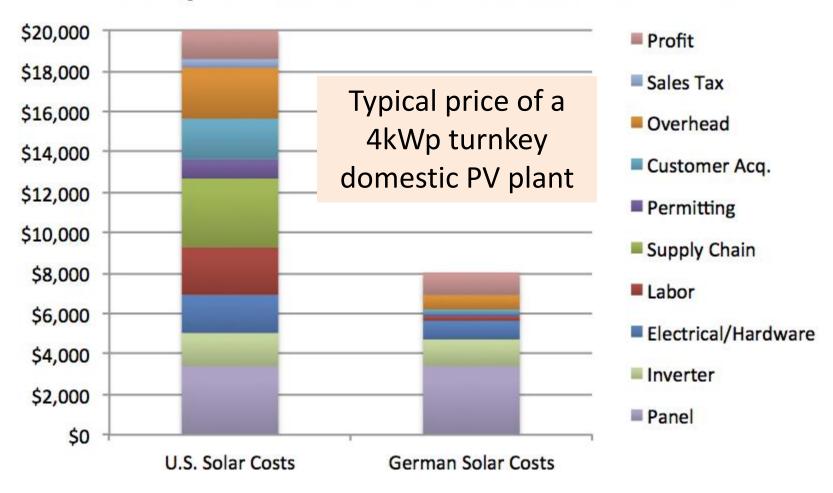
The cost of BoS today is comparable with that of the modules (or less – the case of USA)



The role of BoS

- In BoS, overall there is more margin for cost reduction -

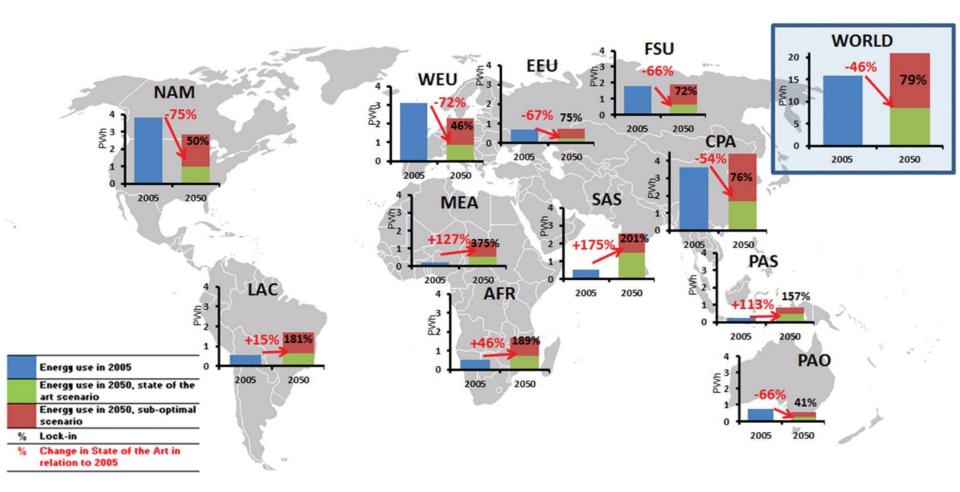
Comparison of U.S. and German Solar Costs





Energy use forecast

- growth of energy demand from developing countries -



Growing Energy Demand in Developing Countries





Portable power

The portable power market is just starting and needs new technology

