

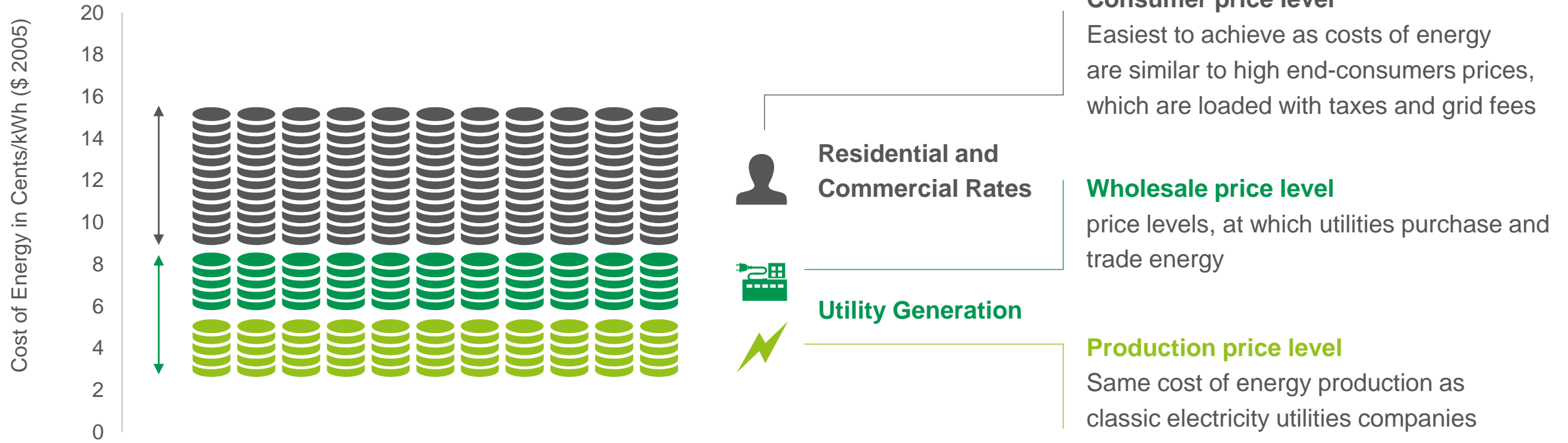


What we need for grid parity

Dr. Benedikt Ortmann, Director Solar Projects

What is grid parity?

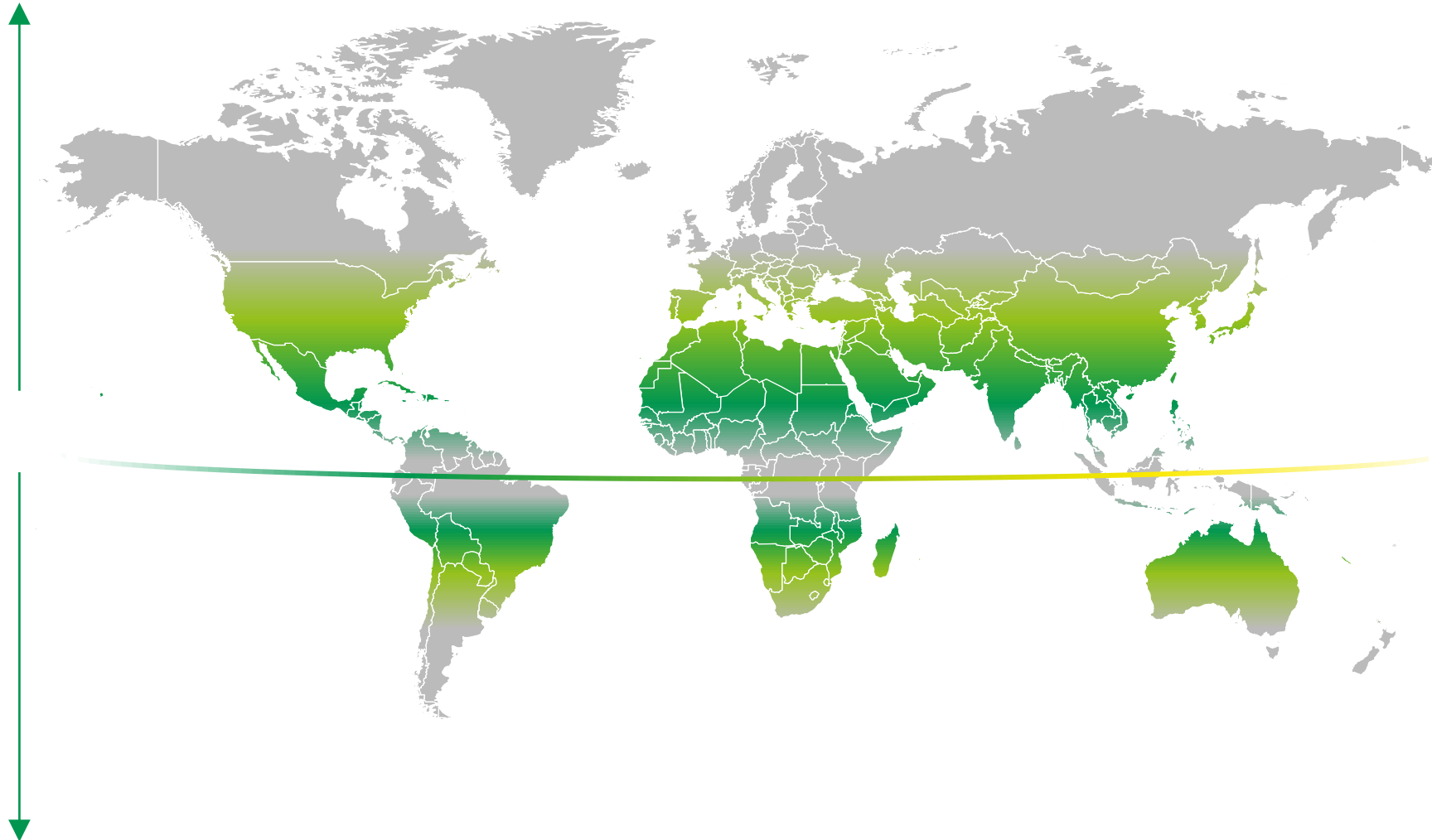
The three levels of grid parity



A technology is at grid parity, if it delivers energy at the same or lower cost than other technologies

The three main parameters for grid parity of solar

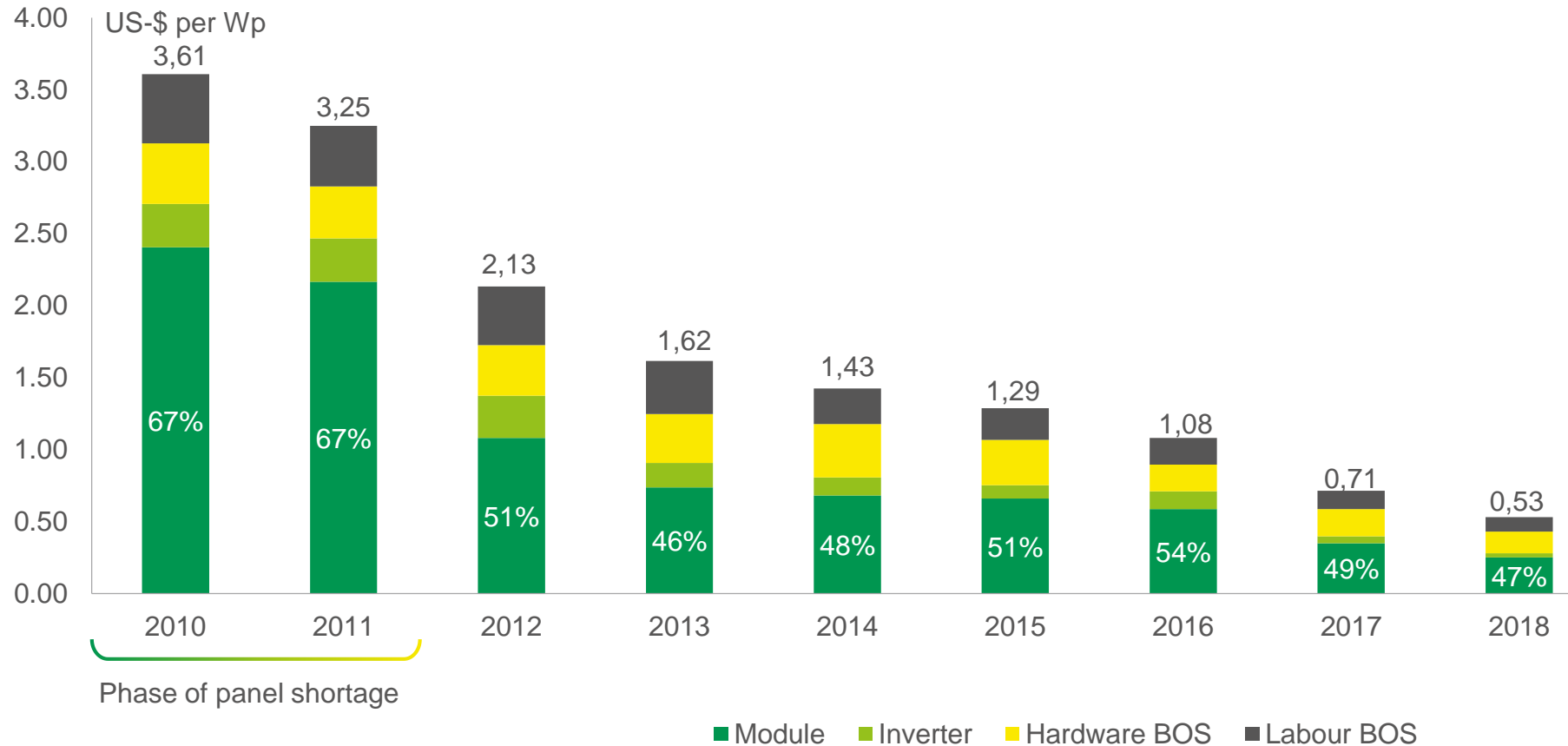
1: Irradiation



The three main parameters for grid parity of solar

2: Construction cost

Comparison of the CAPEX Split for a PV installation



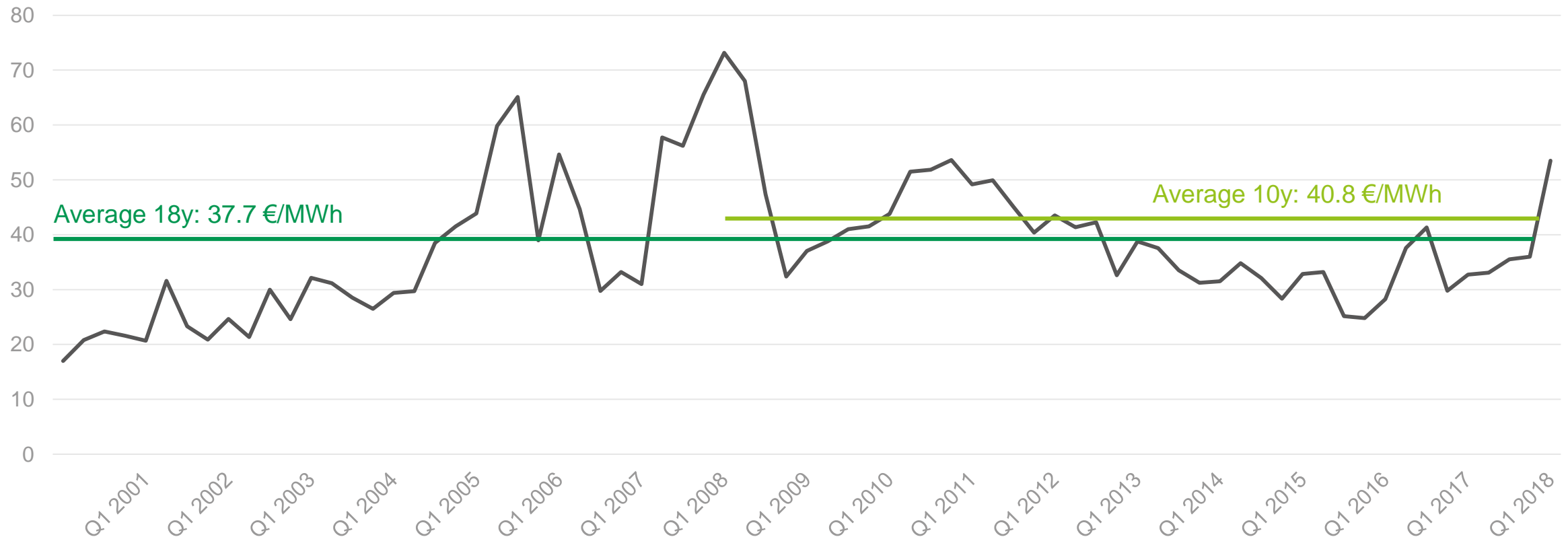
Source: NREL (utility-scale PV system costs benchmark summary (inflation adjusted), 2010 – 2017

2018ff: data projection BayWa

The three main parameters for grid parity of solar

3: Electricity prices

Average Spot Power Price Germany (EUR/MWh, real prices)



Transition to grid parity of solar is in progress

Grid Parity spreads across Europe

It based on

- > The expected price developments of whole sale electricity in each country
- > The solar irradiation map
- > Expected price developments in EPC and material costs for photovoltaic

It does not contain

- > Grid connection costs
- > Possible differences in land and development costs

The study was performed 2016 by the Bequerel Institute, Brussels

