

»» Catalyzing Finance for Solar Energy in India

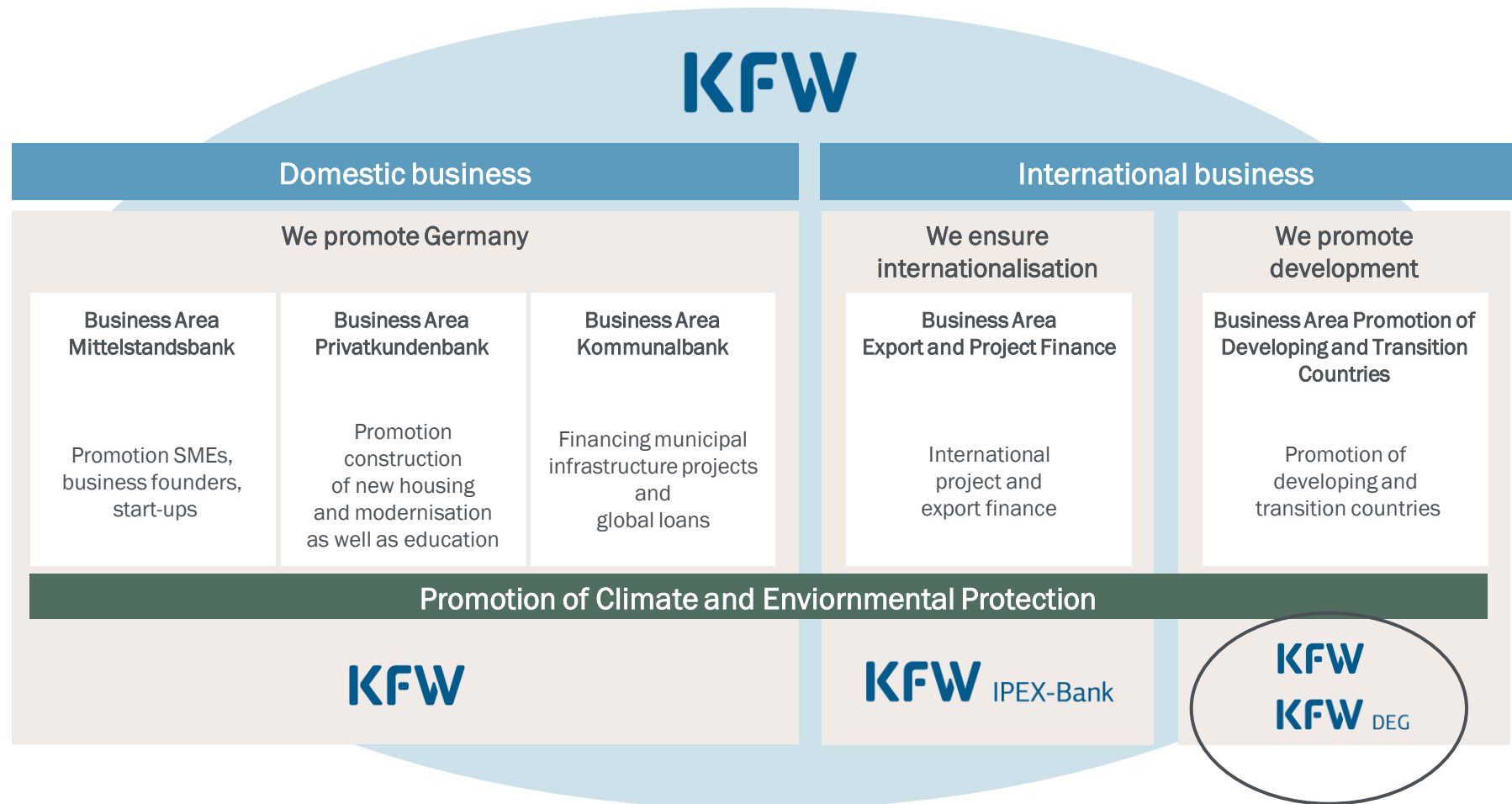
Arjun Guha
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The Future of Solar Energy in India
PDPU, Gandhinagar, 23 September 2013

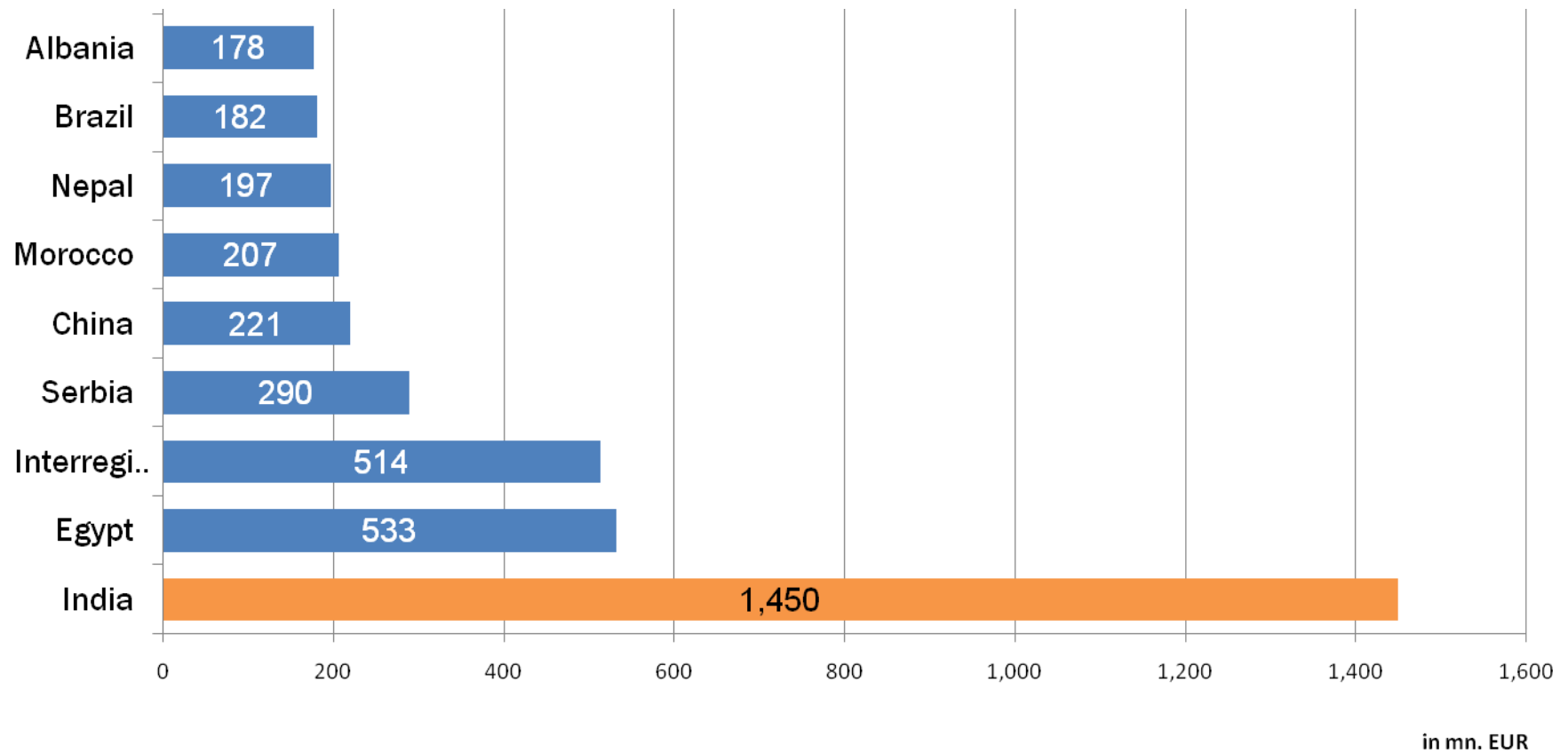
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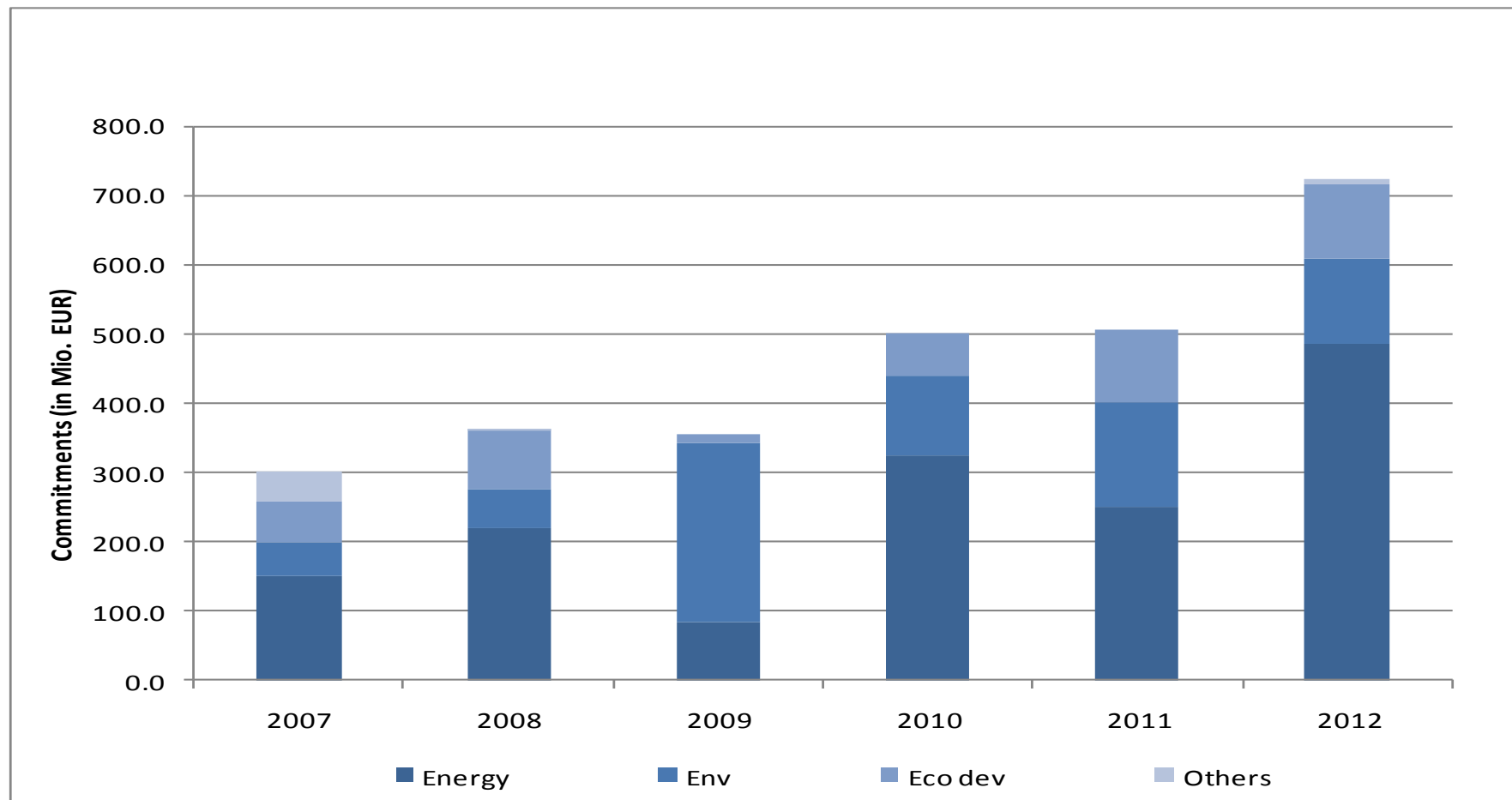
»» KfW Bankengruppe at a glance



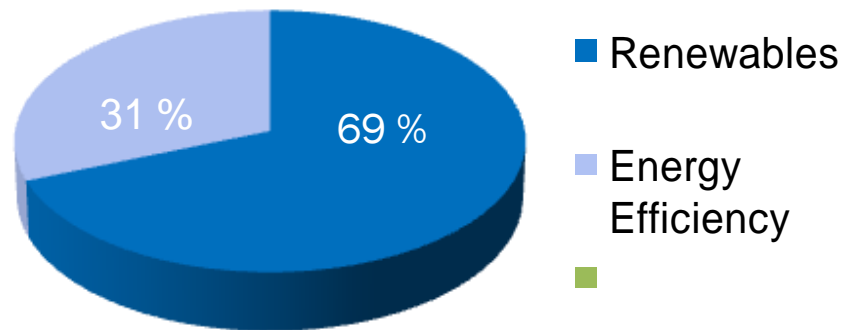
»» KfW's Energy portfolio in India compared to other countries



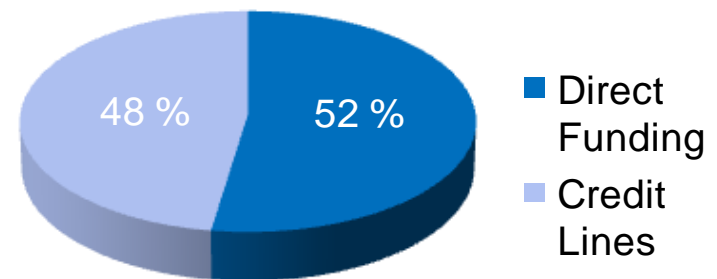
»» Overview of FC Commitments in India (2007-2012)



»» Ongoing Energy Portfolio in India



Portfolio Mix



Mode of Financing

»»Solar Projects in India financed by KfW

- › Our financing in the solar sector is mostly structured as re-financing of loans of IREDA, REC and IIFCL.
- › KfW has invested 290 million Euros (2,000 crore Rupees) in 13 projects.
- › KfW's largest investment in the solar sector is the 150 MW Sakri project implemented by MAHAGENCO in the state of Maharashtra.
- › Up to now KfW has only financed PV projects but is also looking at options for CSP projects in India and “land neutral” solar energy projects.

»»Sakri: The largest PV plant in India is financed by KfW



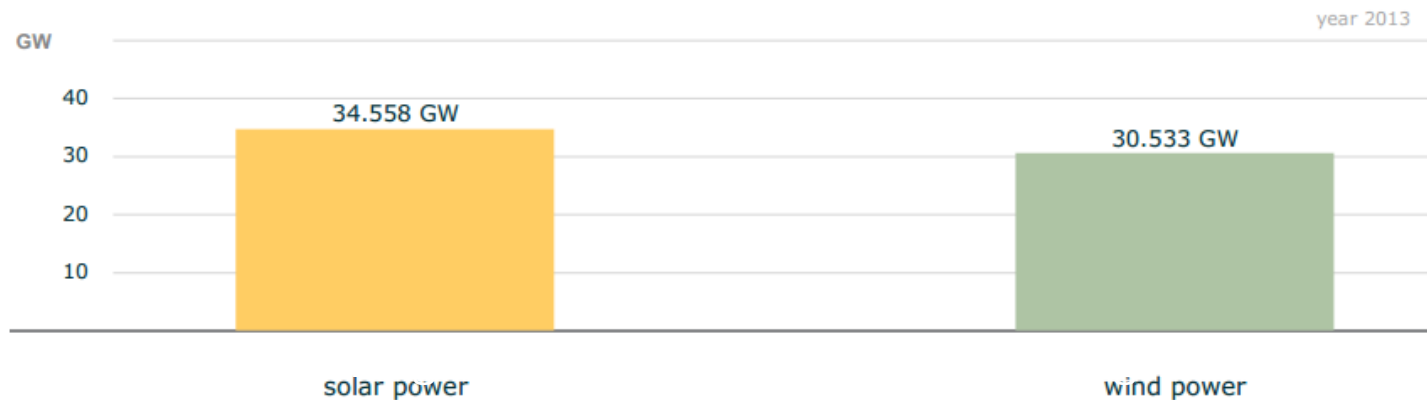
- › Borrower: Government of India - Executing Agency: MAHAGENCO
- › Loan EUR 250 Million (Reduced Interest Loan) - Grant for Technical Assistance EUR 0.7 Million
- › Date of loan signing: 10 August 2011
- › Currently 125 MW are already producing power
- › Estimated electricity generation: 216 GWh p.a. - Estimated CO₂ Reduction 186,000 tons p.a.

»» German Solar growth story: Facts

- › RE act of 2000
 - › Priority to RE sources
 - › Streamlined permitting
 - › Investment protection - 20 years FiT
 - › Readily available finance
 - › Opened up the grid for solar and wind
 - › Most reliable grid in Europe

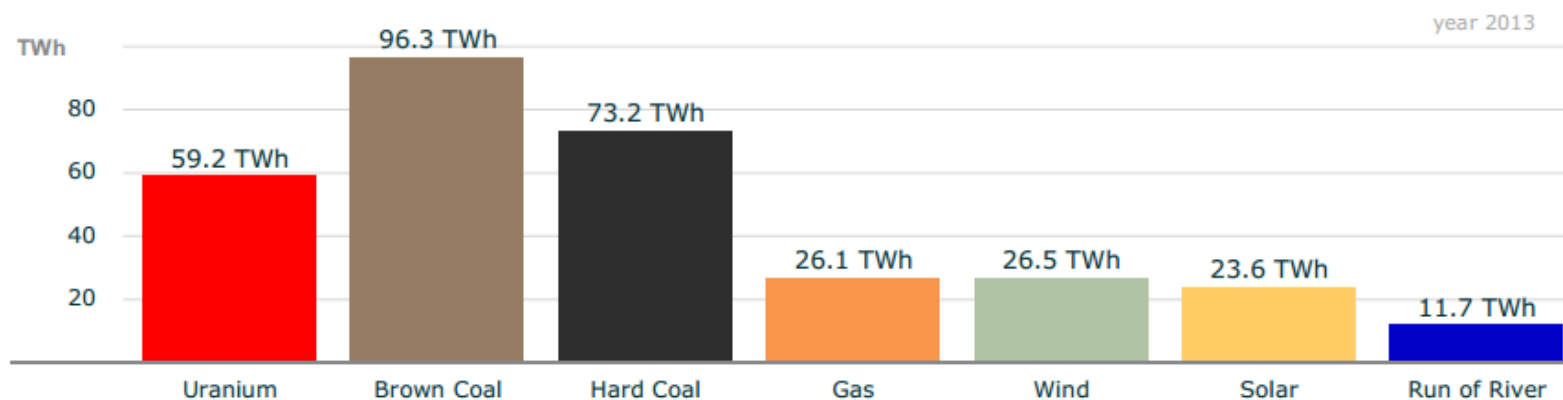
»» Power generation by sources in Germany in 2013

Installed solar and wind power



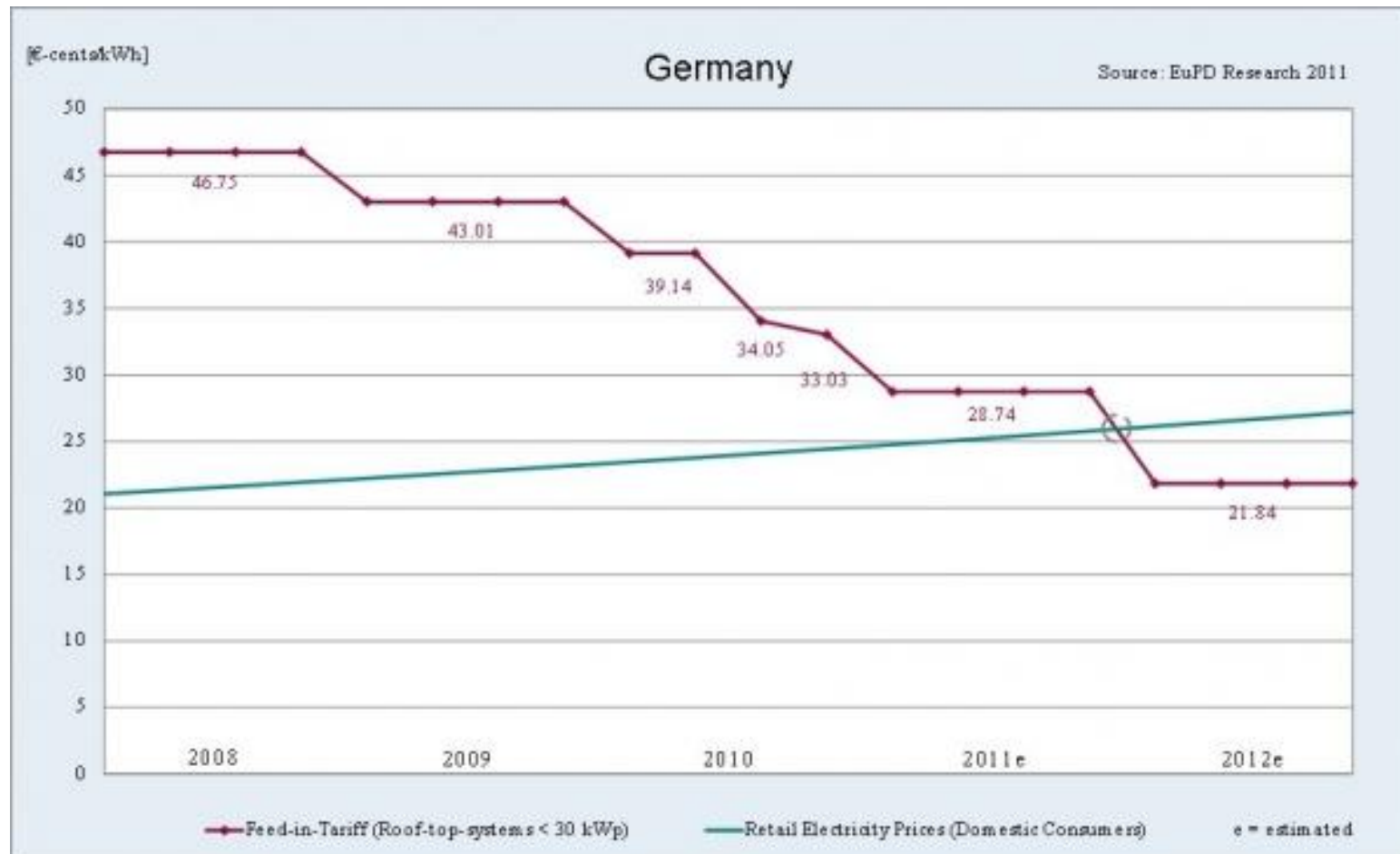
Graph: B. Burger, Fraunhofer ISE; data: Bundesnetzagentur

Electricity production: first eight months 2013

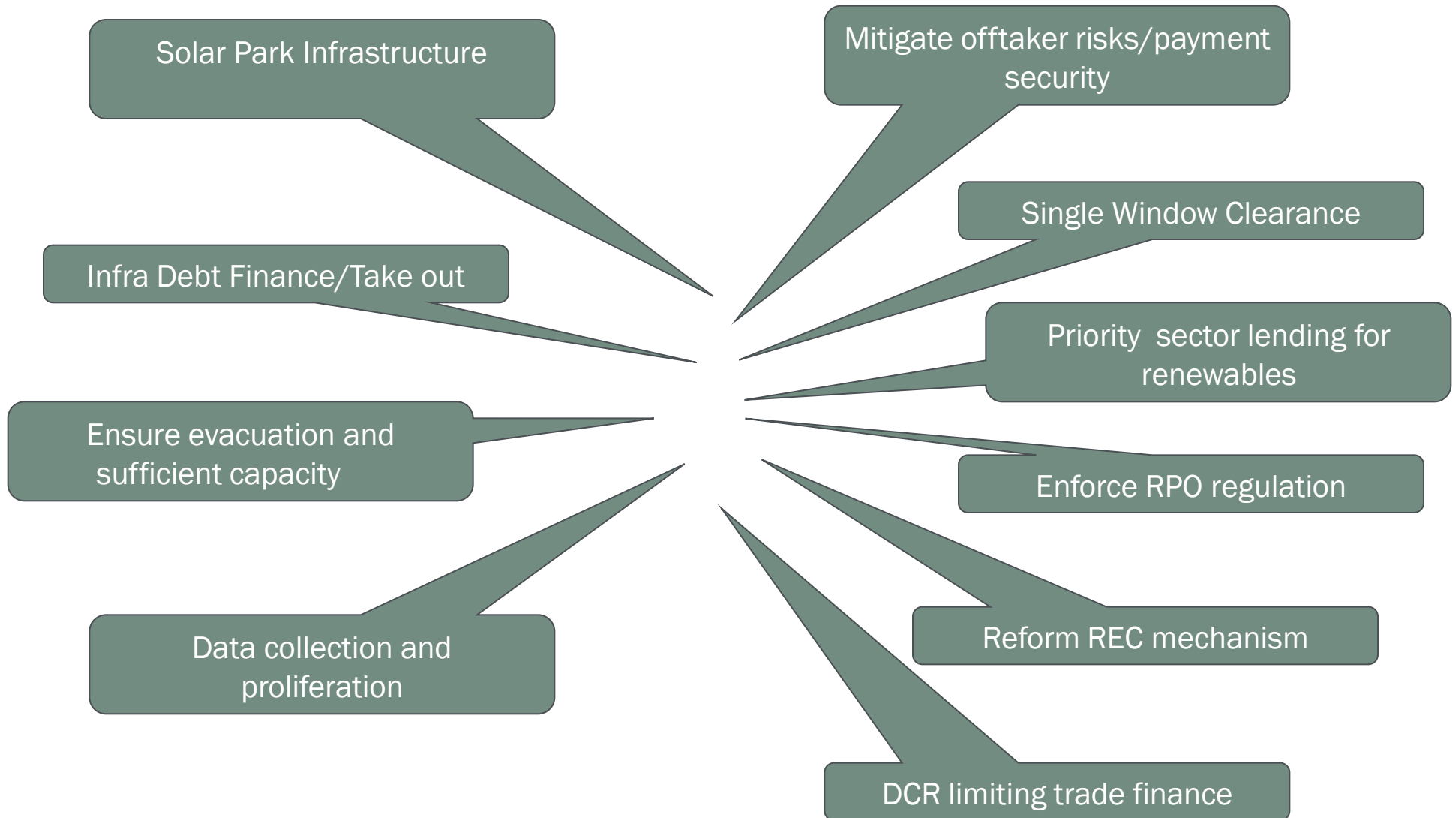


Graph: B. Burger, Fraunhofer ISE; data: European Stock Exchange EEX, energetic corrected values

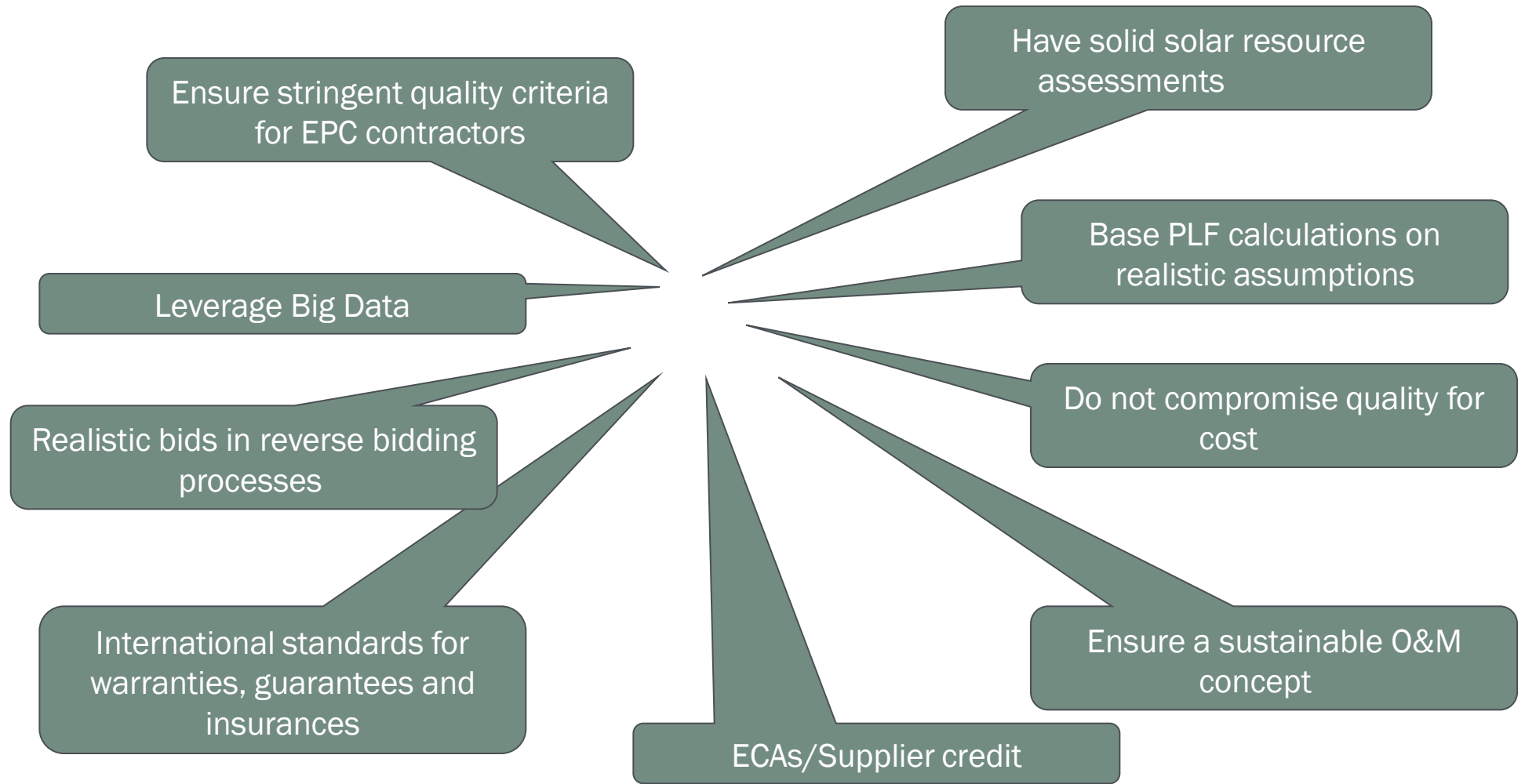
»» Consumer tariff versus Solar FiT



»» Increasing the financing for solar projects – Policy & Regulation



»» Increasing the financing for solar projects - Developers





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