

European Energy Journal

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How the Earth generates renewable energy | 18

The Earth system perspective on renewable energy implies, according to **Axel Kleidon** that a sustainable energy future based on renewable energy should focus strongly on solar-based technology in the long run.

Shale Gas hasn't gone away - Europe still needs pragmatic solutions to its critical challenges | 32

It may no longer be dominating media headlines but shale gas continues to be a part of this equation. The UK, Spain, Poland and Germany continue to be at the forefront of national policy discussions looking at how it could potentially be a part of each nation's respective energy mix. An update by **Mateusz Stankiewicz-Szynka and Marcus Pepperell**.

The active customer paradigm and the transmission-distribution interface | 37

An overview by **Susanne Nies** on the state of play of the energy transition, with rising RES, digitalisation starting, the crisis and change of incumbent utilities, and the regulatory environment since the beginning of the liberalisation in the Nineties. It highlights the role of networks: of TSOs and DSOs, their interaction, and the role they need to play as to take the Energy Union from promise to practice.

Country reports on United Kingdom and Russia | 45

Challenges in a period of uncertainty; UK Energy Industry, Upstream sector in the North Sea by **Alessio Villanacci**; The Ukraine crisis, Russian energy policies and the EU-Russia energy relations are described by **Alexander Gusev and Kirsten Westphal**.

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