

# **Facing the Climate and Digital Challenge: European Energy Industry from Boom to Crisis and Transformation**

**Snapshots from a forthcoming Energy Policy article**

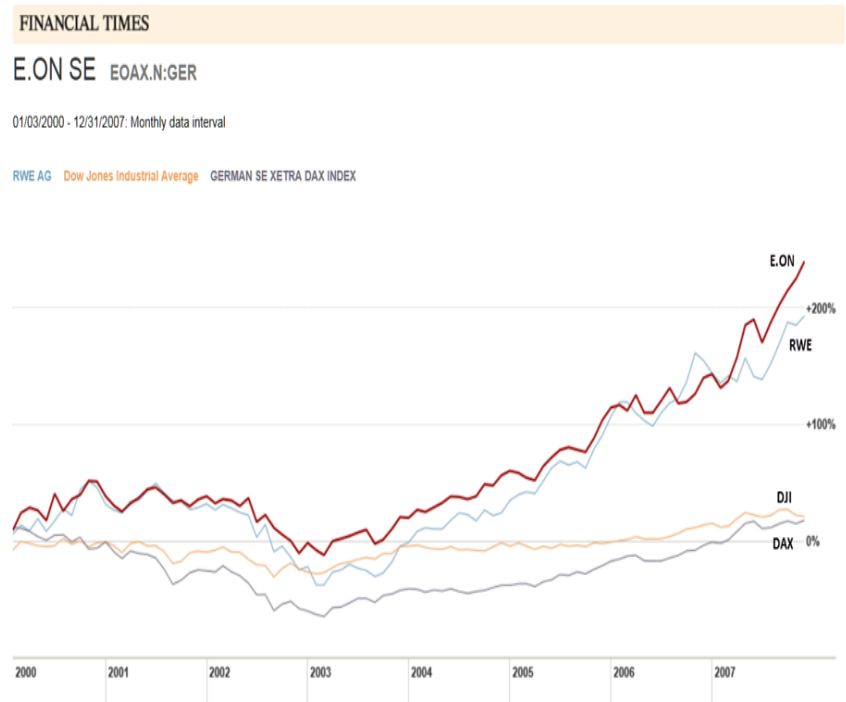
**Atle Midttun**

**Professor, Institute of Law and Governance**

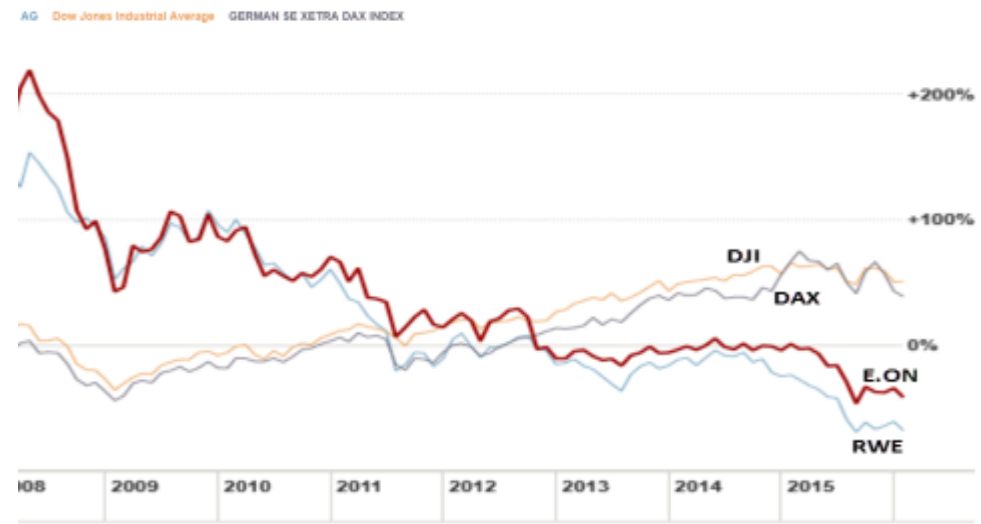
**Co-Director Centre for Energy**

**11-5-2017**

Figure 2. E.ON and RWE Benchmarked against DAX and DJI 2000-2007

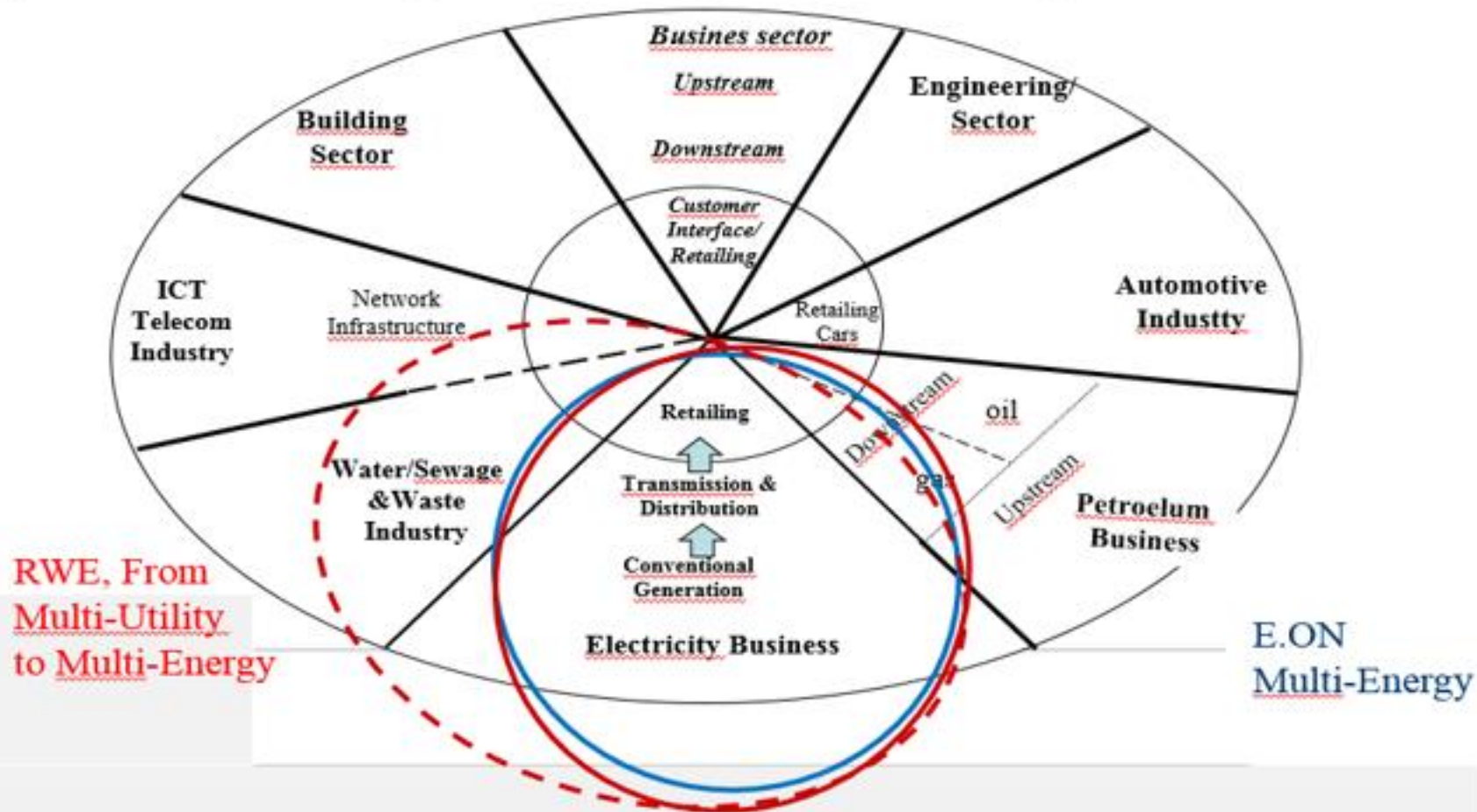


Source: Financial Times (2016)



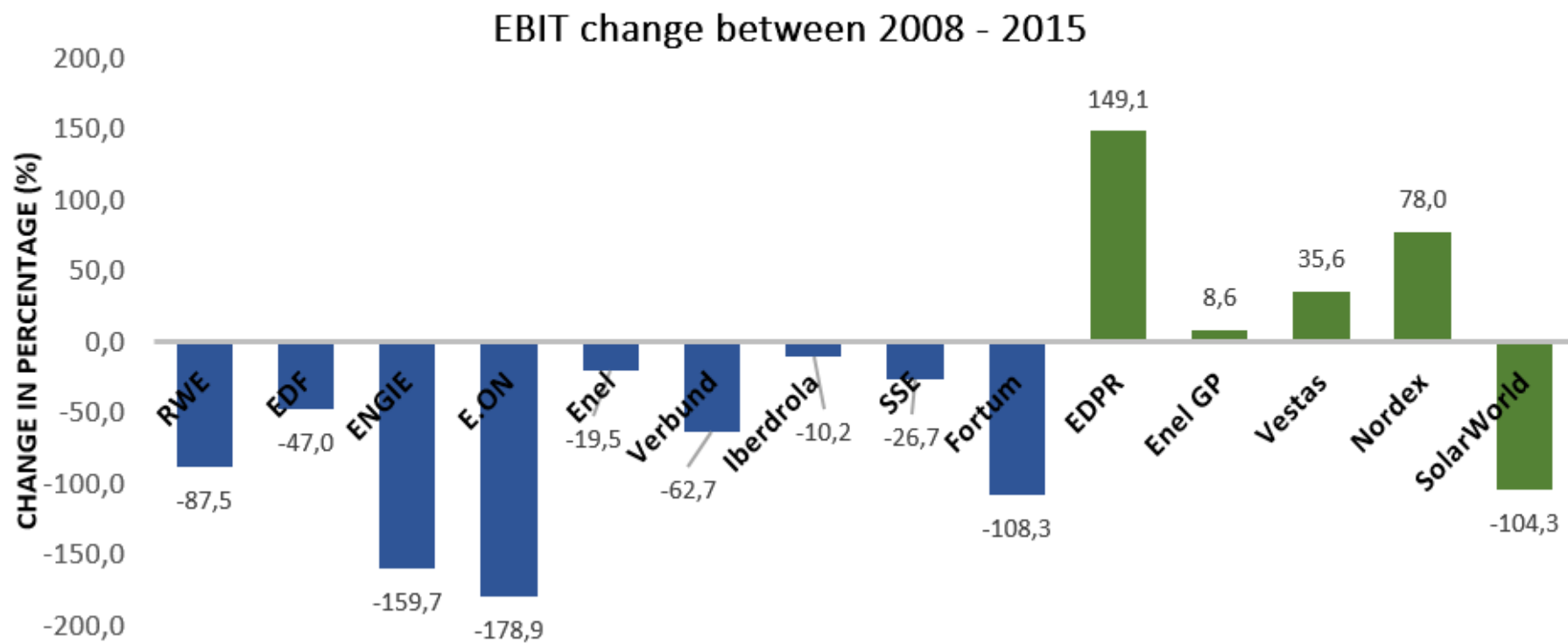
ie year 2000 = 0%  
rce: Financial Times (2016)

Figure 3. Consolidating Multi-Energy and Multi-Utility Business Models



# The Green Challenge

Figure 11. EBIT change between 2008 -2015 in percentage

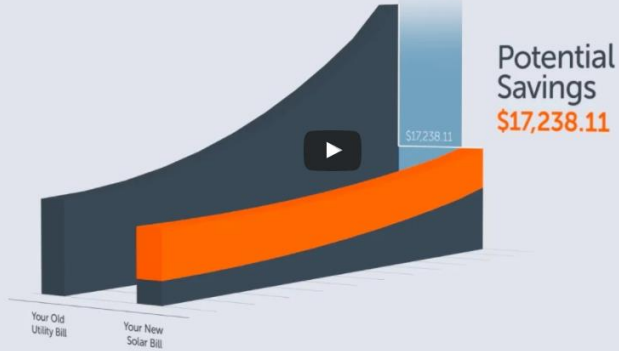


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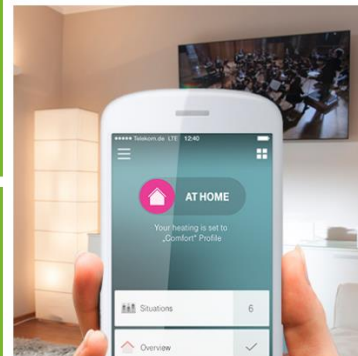


Figure 16. Emerging customer-centric models, a summary

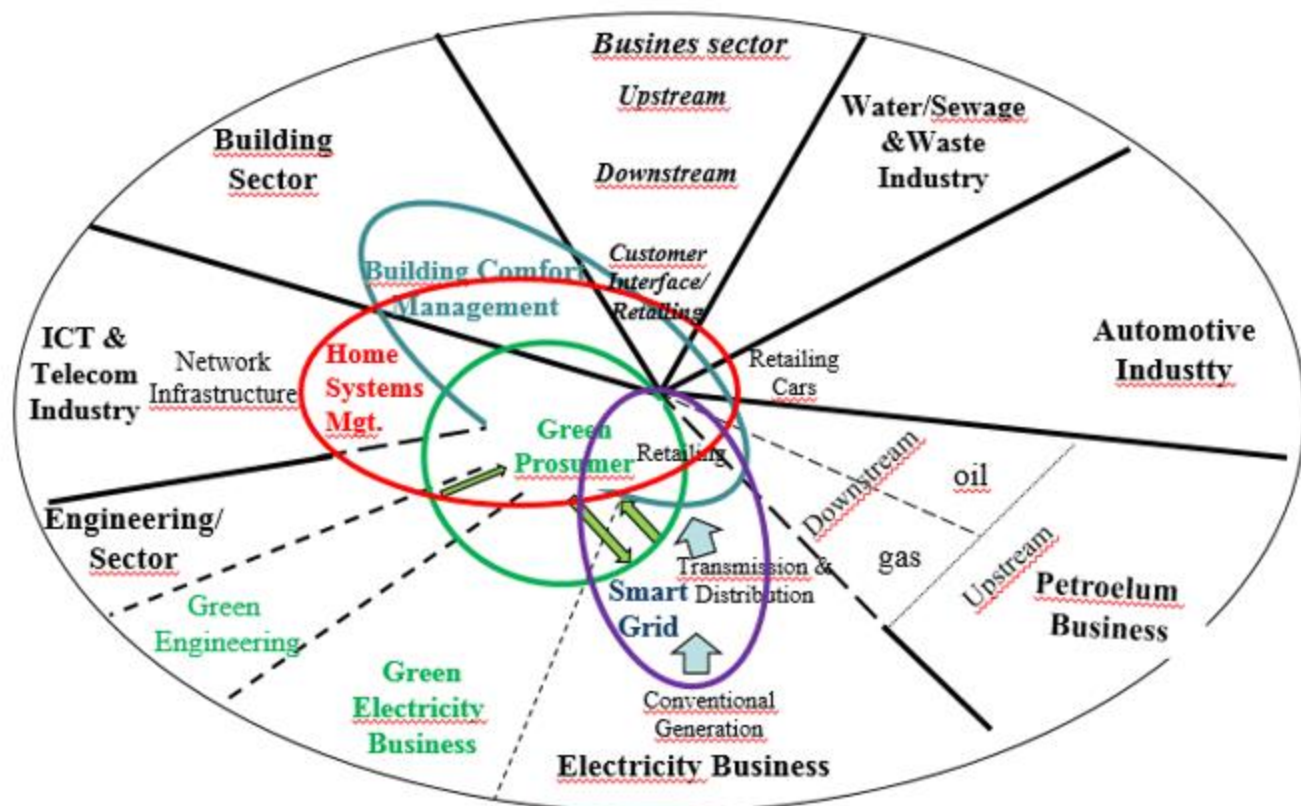
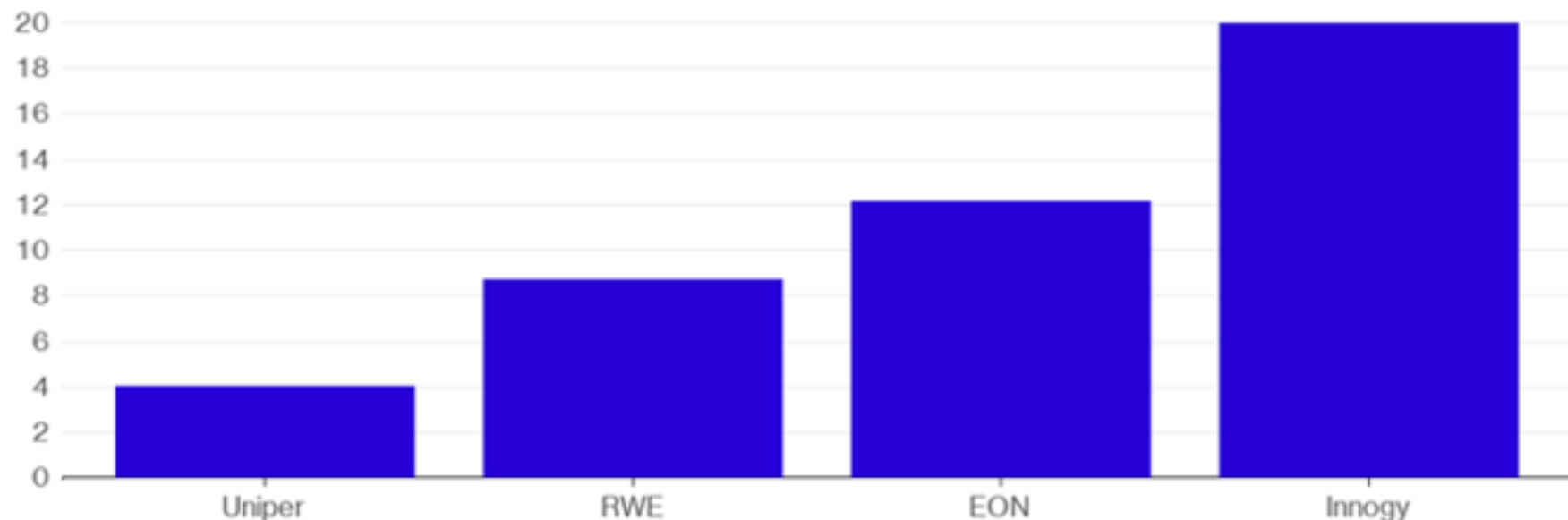


Figure 6. **Market Value of New and Old E.On and RWE Units**

## Innogy Becomes Germany's Most-Valued Utility

Market value in billion euros\*



Bloomberg, Innogy

\*Based on closing price on Oct. 6, 2016, for Uniper, RWE, EON; on IPO issue price for Innogy

Bloomberg 



**Revenue:**  
**Oil prod 54%**  
**Renew prod 20%**  
**Retail 26%**

#### PRODUCTS

## Neste Renewable Diesel

### High performing low carbon biofuel

Neste developed Neste Renewable Diesel, a low carbon biofuel, in order to help its customers reduce their carbon footprint. Neste Renewable Diesel, produced 100% from renewable raw materials, offers an easy way to lower traffic emissions and increase the proportion of renewable energy used in transport.

Neste Renewable Diesel plays a significant role in the implementation of California's Climate Plan

#### RENEWABLE PRODUCTS

##### FUELS

#### Neste MY Renewable Diesel

Key benefits

Reduced emissions

Neste MY Renewable Aviation



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