

ALICE-Symposium: Transforming the energy system to achieve the 2°C target: investment risks and policy challenges.

WG2: Investment Opportunities and Challenges für Smaller Scale Private and Municipal Utilities – How to meet the climate change.



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Business Development / member of the management



Energie zum Leben!

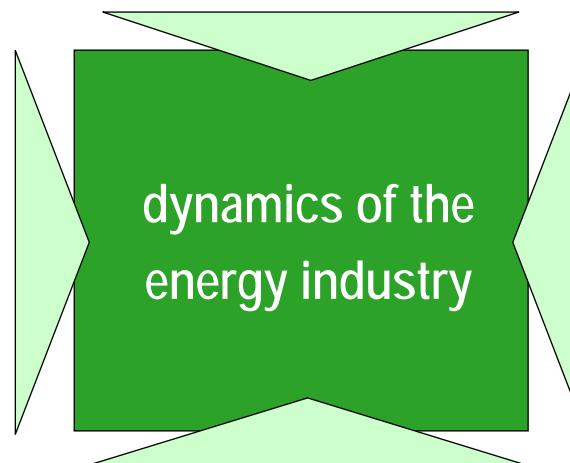
Four drivers for the transformation of the energy industry

Liberalization / deregulation:

- EU laws
- national liberalization strategies

Global environmental policies / climate change

- Climate change and national environmental policies
- International climate change policies / CO2 reduction goals



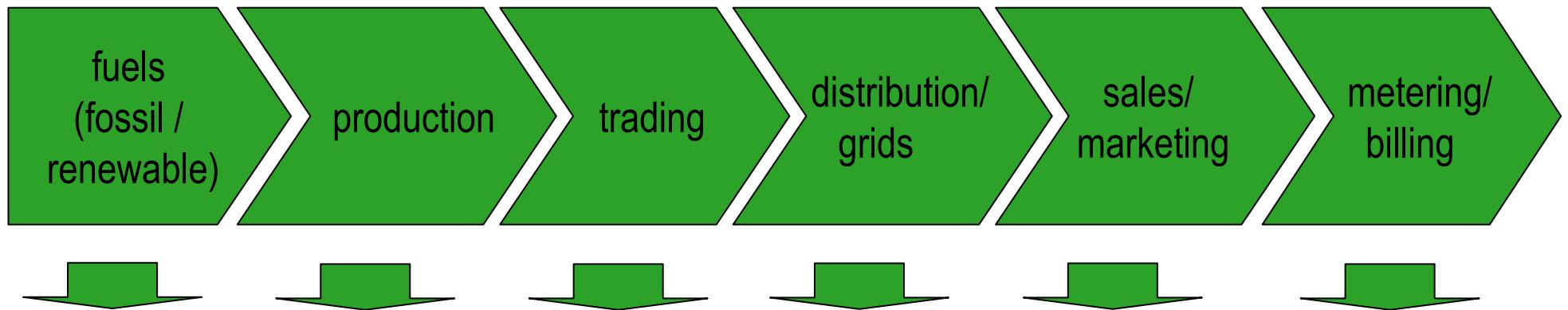
Technological progress:

- General progress; growth in labour productivity
- Specific technological changes in some industries/production

Internationalization / globalization

- Integration to EU energy market
- Global interrelations ("synchronization") in the energy markets

Investors in the energy market



tradition utilities:

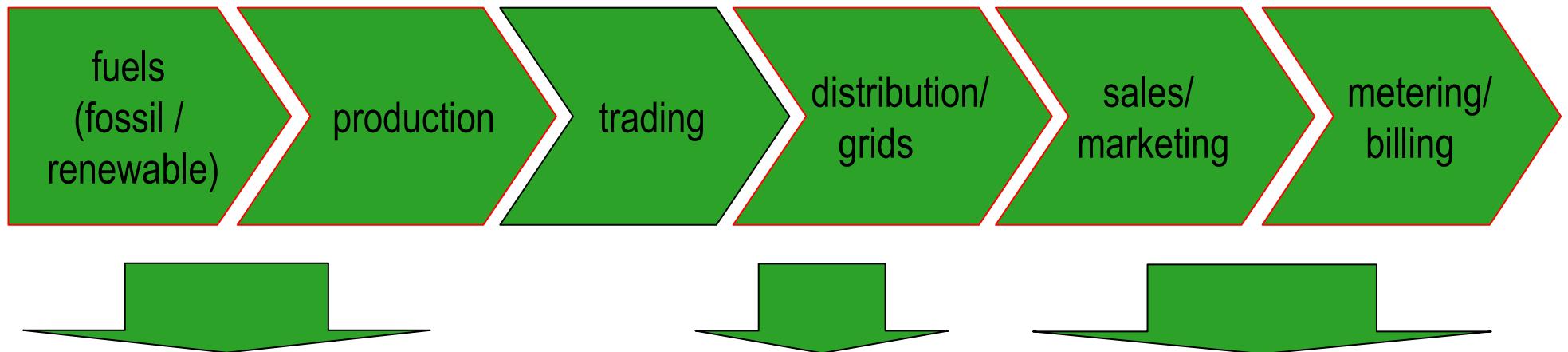
- Large / international utilities and
 - municipal utilities:

complete value chain in focus for investments.

new (international) investors:

- Investment funds and
- specialist SMEs (project / technology investors):
focus on specific fields in the value chain

Approaches to reach the 2°C target



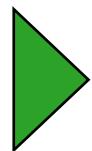
Renewables replace fossil fuels and traditional – fossil based – production capacities

Demand side and supply side management:
„smart grids“ / E-Energy

reduction of (fuel) consumption, energy efficiency (“smart grid”, “smart home”) and „green energy products“ (green electricity, green gas)

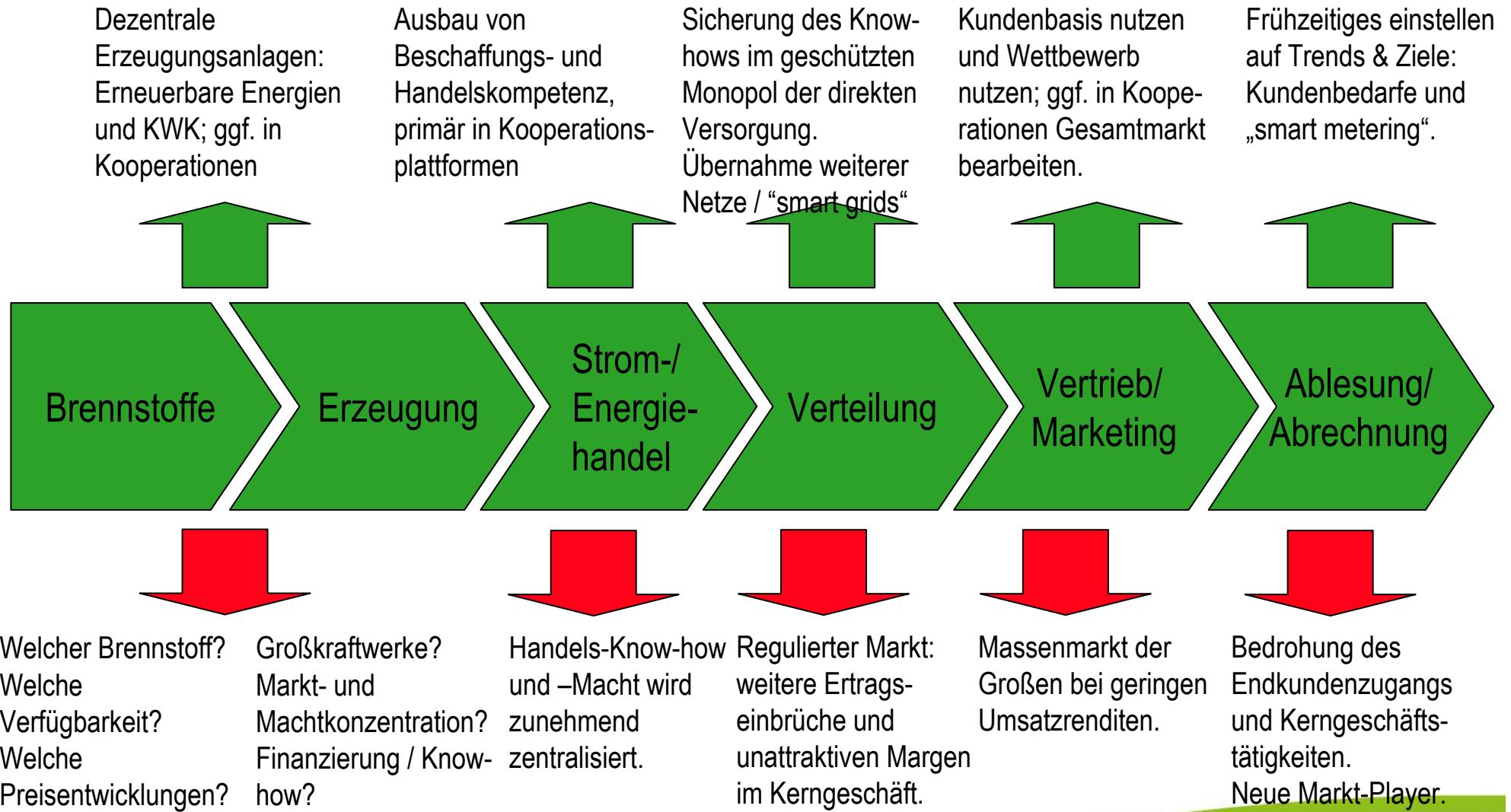
Investment Opportunities and Challenges for smaller utilities

	Opportunities	Challenges
production	<ul style="list-style-type: none"> - CHP, local production - renewables: local benefits/ regional location factor and government aid (EEG) 	<ul style="list-style-type: none"> - technical risks - financing / investment budget: situation of municipalities (share holders)! - market power of the „4 large utilities“
transport / grids	<ul style="list-style-type: none"> - Load management: demand side and supply side - Early player in “E-Energy” 	<ul style="list-style-type: none"> - refunding of investments? - technical one-way roads
sales / metering	<ul style="list-style-type: none"> - customer loyalty - new customers - new products 	<ul style="list-style-type: none"> - refunding of investments? - technical one-way roads



At the moment, investments in local renewable projects or joined projects in renewable production capacities seems to be most successful.

Chancen und Risiken kommunaler Energieversorger



Herzlichen Dank für Ihre Aufmerksamkeit!

Ihre Stadtwerke Flensburg GmbH

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