

FORSCENE 2. workshop
industry and economy
“Energy efficiency and leap-frogging”

Vienna, October 23rd – 24th

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● European Business for Sustainable Energy

➤ Lobbying in the EU

for an economical and ecological sustainable energy future

➤ Enforce and enlarge sustainable business opportunities *Build up a knowledge- and contact base for sustainable energy*

➤ Sister organisations: BCSEs in US, AUS and UK common presence at UN level

● e5: “*Climate is Business*”

➤ e-ENERGY, e-NVIRONMENT, e-CONOMY, e-MPLOYMENT, e-FFICIENCY

● Members of e5

Business- and umbrella association with app. 110 members

- Companies:     
- Association        
- Renowned personal members

Content

- **Define the frame of the Picture / Image**
 - Where do we want/have to be in 50 years
- **Status Quo**
 - Historical challenge
 - Current situation
- **Transition path**
- **Main barriers to overcome**
 - Political
 - Economical
 - Technological



We know, where we want to be in 50 Years

● **Secure access to power, heating for everyone**

- Cross country/Europe
- For feasible price
- For private and industrial use

● **Don't exceed 2°C global warming**

- Globally: Don't overshoot 450ppm CO₂(e)
- For Europe: Power sector has to reduce GHG-emissions by 100%

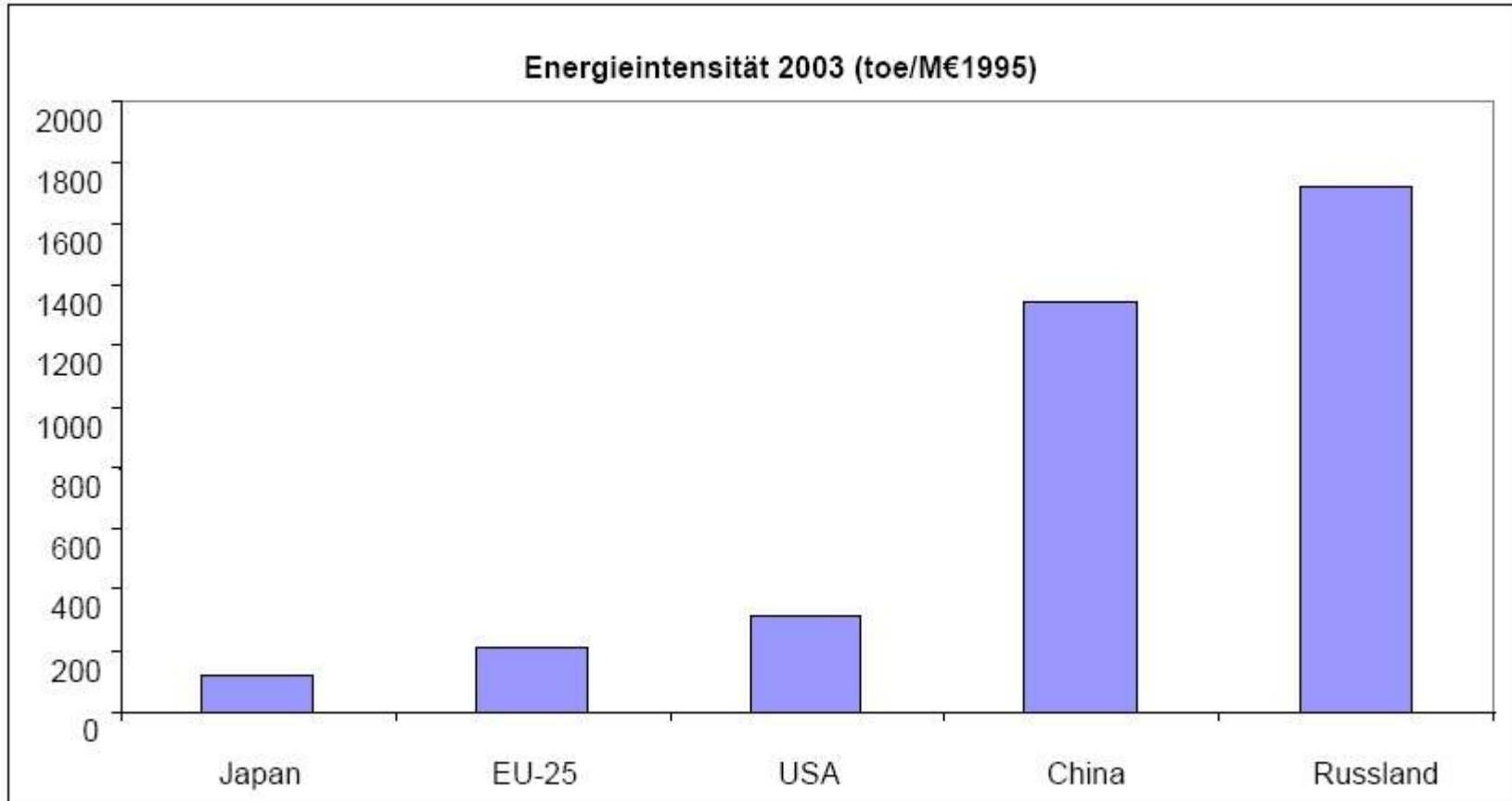
History

- **Main challenge of the last century:**
 - Providing reliable energy sources to everyone
- **At least since the beginning of the 80th the energy infrastructure has been finished in the EU**
- **End of 80 the liberalization of the electricity sector stops every investment in the infrastructure**

Current situation

- **Today we have a well financed hand full of European players in the market who are earning a lot of money with business as usual**
- **These companies are more than influential**
 - Influential in policy making
 - Economically independent
 - Oligopolic market
- **European energy technology and infrastructure companies are market leaders in the global economy**

Energy efficiency



Source: European Commission : Green paper on energy efficiency;
COM (2005) 265 final

● Technical

- Production:
There will be no silver bullet BUT plants will be CO₂-free
- Transmission: "Smart Grids"
→ Transmission control and communication
- Consumption:
→ Efficiency through KnowHow/DemandSideManagement

● Policies & Measures

- Harmonization of existing p&m
- Ambitious mandatory targets

● Society/economy

- Creating and telling "sexy" stories which are leading to an accepted challenge

● Political barriers

- How to overcome the strong influence of business as usual companies?

● Economical

- The money is already there, BUT
- How to shift financing from centralized to diversified/decentralized investments?

● Technological / Services

- How to create an innovation environment for smart solutions?