

German Policy and Approaches towards Zero Energy Buildings

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20.05.2011

German Energy Concept

- Issued by the German government
- Federal ministry for economy and technology
- Federal ministry for the environment, protection of nature and reactor safety
- September 2010

Content

- Renewable energy as a main factor for future energy supply
- Key issue energy efficiency
- Nuclear energy and fossil power plants
- Powerful grid structure for electricity and integration of renewable energy
- Energetic refurbishments and energy efficient building
- Challenge mobility
- Energy research for innovations and new technologies
- Energy supply in a European and international context
- Acceptance and transparency

Energetic refurbishments and energy efficient building

Key targets

- 2050 : ecological neutral building stock
- Very low energy demand
- Rest of demand covered by renewables
- Doubling the refurbishment rate
- 2020 : 20 % reduction of heat demand

Energetic refurbishments and energy efficient building

Current findings and conclusions

- Remarkable amounts of money needed
- Insufficient existing legal and administrative measures
- Limitation of existing legal and administrative measures
- Revised approach needed
- Market tools
- Economical measures only

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Key elements I

- 2020, all new buildings are ecologically neutral
- Road map for existing buildings from 2020 to 2050
- Starting in 2020 with the worst buildings
- Refurbishment on the envelope and/or the services systems and/or use of renewable energy
- Demolition and new building will be subsidized

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Key elements II

- Subsidies for early and upfront refurbishments
- Additional money budgeted for refurbishments
- Tax incentives shall be checked
- Subsidies for renewable energy used in existing buildings
- Revised calculation of rents
- Legal clarification of energy contracting

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Key elements III

- Requirements , no engineering solutions
- Taxation in the energy sector should be CO₂ orientated
- Improved training of craftsmen
- Examples of best practice on new and existing public buildings

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Next steps

- All mentioned measures transferred into binding law
- Acceptance of both chambers of parliament
- Accordance with the constitution
- Uncertainties with boundary conditions
 - > changes in the governments
 - > availability of money
 - > further „Fukushima`s“

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Final remarks

- We face a unbelievable huge task
- This is not an engineering task, it is political
- We have to start quickly
- We have to be honest to the public
 - > money needed
 - > economics

Thank you for your attention

Questions ?