



11th LEIBNIZ CONFERENCE OF ADVANCED SCIENCE

– Solarzeitalter 2011 –

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Bernd Junghans

**Welcome to the 11th Leibniz Conference
Solar Age 2011**

LEIBNIZ-INSTITUT für interdisziplinäre Studien e.V. (LIFIS)

Challenges of the Solar Age

There is an obvious need for changing our energy policy in order to:

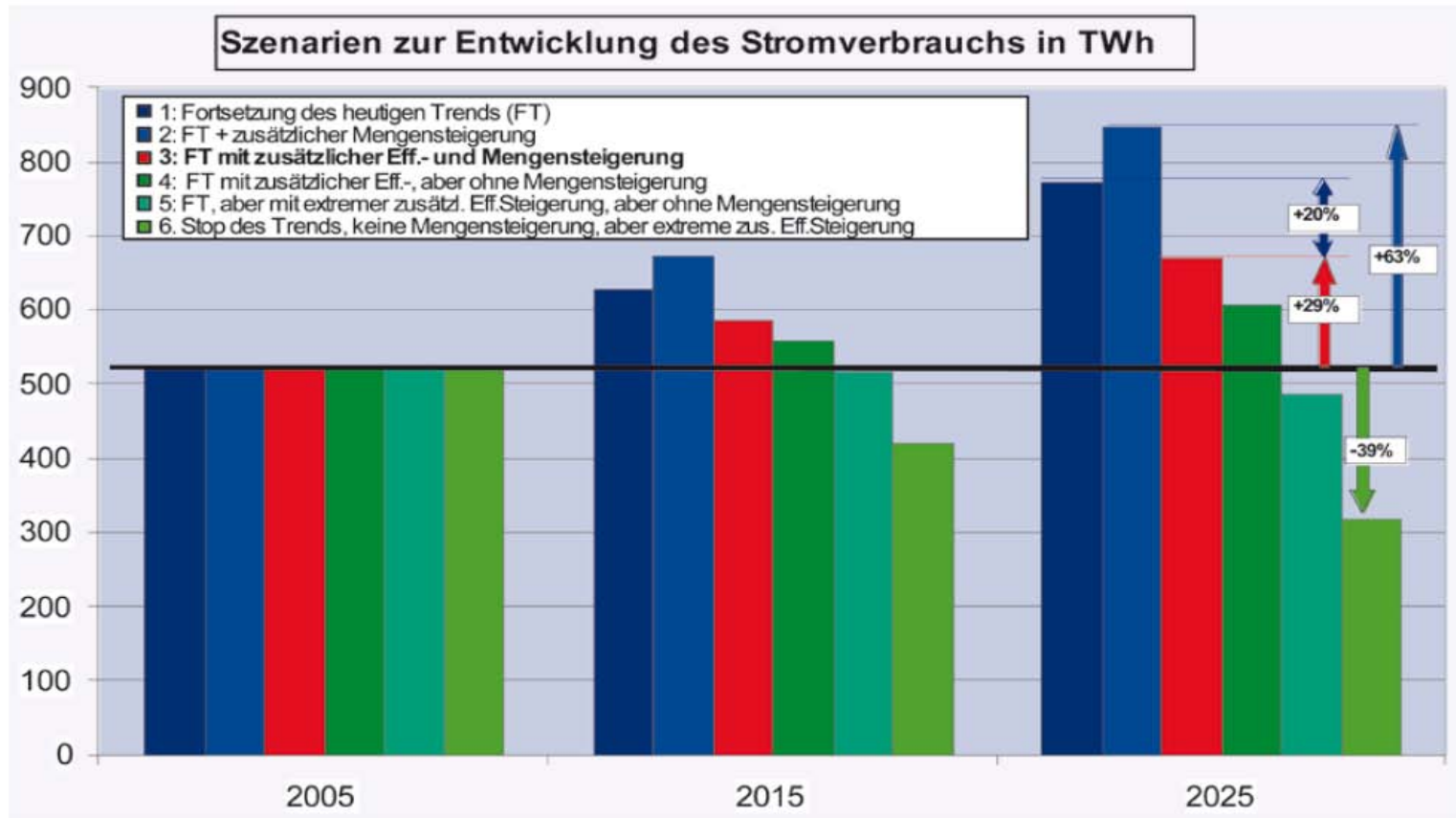
- Fight global climate change
- Exit from nuclear energy option

This change can be achieved by:

- Producing more energy with renewable sources
- Saving more energy



Electrical Power Efficiency



Quelle: VDE-Studie: Effizienz- und Einsparpotenziale elektr. Energie in Deutschland (2008)



Examples for Energy Saving Initiatives (I)

Cool Silicon:

Make communication and information technology less power hungry

Information and communication technologies count for roughly 8% of ww electrical power consumption (~ 300 Nuclear Power Plants)

More than 60 companies, universities and R&D institutions in Saxony are working on low power information and communication technologies



Examples for Energy Saving Initiatives (II)

Individual initiative:

K. Renoldner - make life better by walking and cycling

Traffic counts for about 18% of greenhouse gas emissions in Germany

Using train or bicycle means reduction of greenhouse gas emissions per km more than 10 times



Interdisciplinarity and Transdisciplinarity

Solar Age requires interdisziplinarität for the development of tools and methods for energy efficiency and renewable energy sources

Solar Age requires transdisciplinarity for its societal implications

