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# **"INOGATE Technical Secretariat & Integrated Programme in support of the Baku Initiative and the Eastern Partnership energy objectives" Project**

**BUILDING PARTNERSHIPS FOR  
ENERGY SECURITY**

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# INOGATE Study Tour/Workshop

## Energy Efficiency & Renewable Energy



**EE/RES financing, terms and technologies,  
European experience, success stories**

**Converse Bank  
05-09 November 2013, Yerevan, ARMENIA**

Werner Weihs-Raabl, Head of Group Infrastructure (GIF), Erste Bank

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# Austria: Financial Support Facilities & Available Projects for EE/RES



## Overview of content

- European framework
- The Austrian energy strategy
- EU Energy Efficiency requirements
- Overview on Financial Support Facilities in Austria
- Best practise examples in Austria

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# European conditions



- ✓ 20% renewable energy in the year of 2020
- ✓ 20% CO2-reduction until 2020
- ✓ 20 % energy efficiency until 2020

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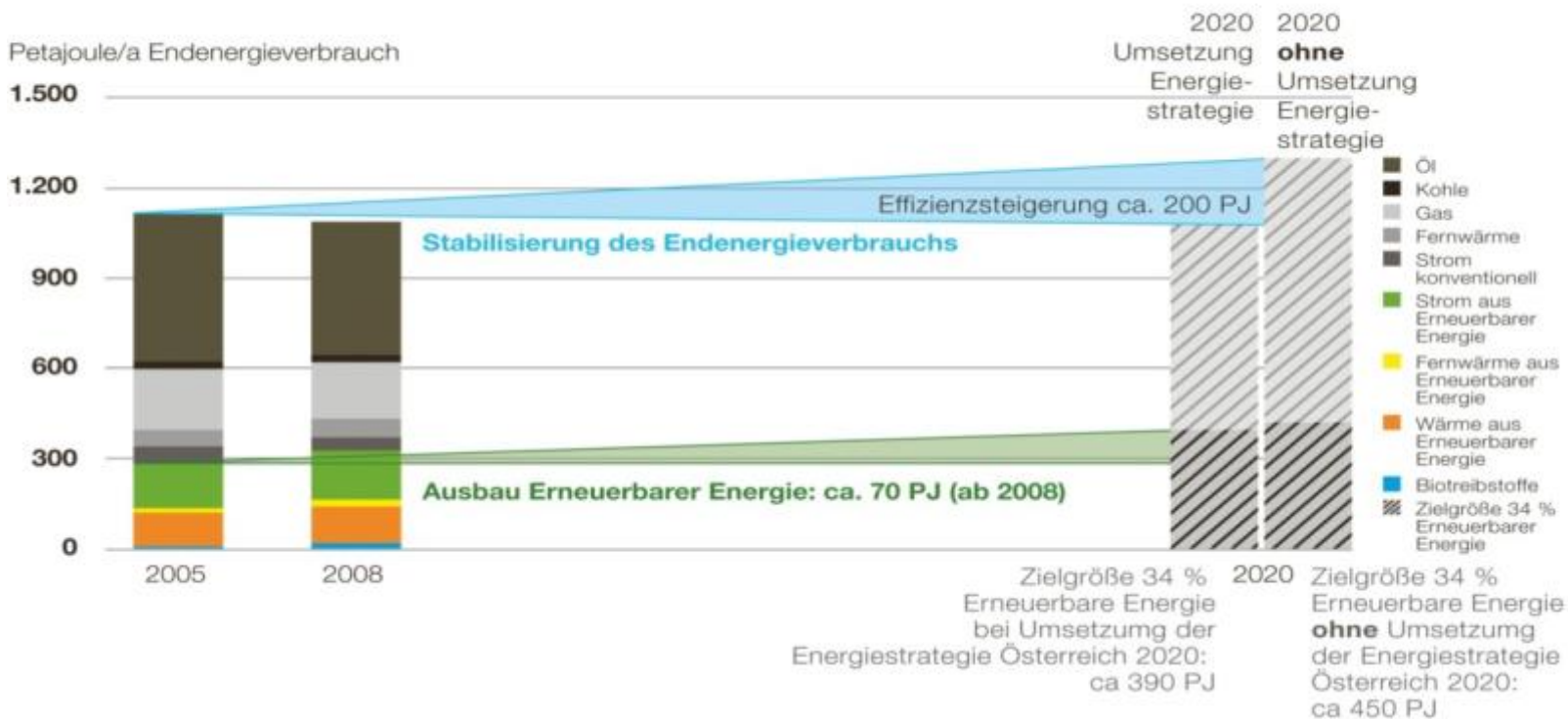


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# The way and conditions to the goal: The Austrian energy strategy

- 34% renewable part
- 20% increase of the energy efficiency
- CO<sub>2</sub>-reduction: 16% in non-ETS area & 21% in ETS area

Ziel: Endenergieverbrauch auf dem Niveau von 2005 stabilisieren



# The EU-energy efficiency guidance

- ✓ Commitment to energy efficiency goal for 2020
- ✓ Engagement system of energy efficiency
- ✓ 3% restoration rate annually
- ✓ Energy audits/Energy management systems
- ✓ Requirement to determine usage and information for deduction
- ✓ Sanction
- ✓ Potential-analysis for KWK
- ✓ Availability to systems regarding accrediting and certification
- ✓ Improvement of information and training



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## Kommunalkredit (KPC)

- **Manages the environmental support schemes** on behalf of the Environment Ministry, the Climate & Energy Fund and Klima:aktiv mobil
- Regions, companies and private persons
- Funding for **investment** for EE & RES (plus water, waste etc.)
- Examples for financial support include:
  - Thermal restoration of old buildings and support for high efficient new building (zero emissions)
  - Energy efficiency in companies and authorities





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## Austrian Research Promotion Agency FFG

- ✓ **New Energies 2020** program supports innovations.
- ✓ **Building of Tomorrow Plus** program → buildings and housing
- ✓ Transnational energy research projects with International Energy Agency (IEA), EU FP7 projects etc.
- ✓ “Smart city” or a “Smart urban region” in Austria.
- ✓ “**Electromobility’s Technical Beacons**” on sustainable mobility & energy supply
- ✓ **denkstatt** project: “Bio refinery”

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## Climate & Energy Fund

- “Hybrid” between Investfunding / technology support
- Aims to support Pilot projects and programs
- Examples for financial support :
  - Research (e.g. denkstatt project “VCM”)
  - Renewable Energies and Energy Efficiency
  - Model Regions, Construction and Sanitation
  - **Photovoltaic funding program:** 36 Mio. EUR reserved, Continuous funding from 12.4.2013 to 30.11.2013



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# Example 1: Bundesrechenzentrum



## Modernisation of lighting control

- **Environmental benefit:** Energy savings of ca. 70 MWh (~ca. 18 tons CO<sub>2</sub>)
- **Financial benefit:** Saving of EUR 7,700 per year

Further measure: Freecooling server room, heat pumps



IT für Österreich



# Example 2: Bank Austria Technical Center



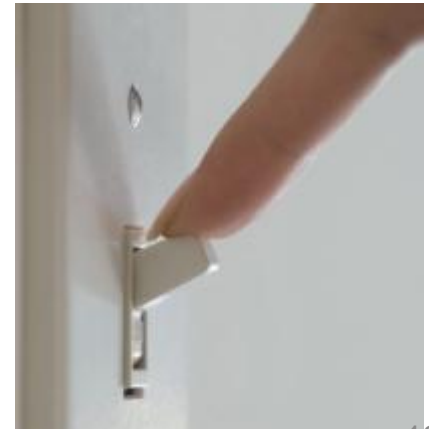
## Free cooling

- Free-Cooling System for room cooling, reduction of energy demand via usage of outdoor air until 15° Celsius
- **Savings:** ca. 12%, or 115,000 Euro/year



## Example 3: Employee motivation programs – Energy efficiency

- Up to 20% of the energy costs can be saved through training of consciousness and changing of user patterns
- Best Techniques need to be combined with **intelligent application and improvement of users!**
- Organisational measures and actions to be taken to train employess – with little budget!



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