“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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The Experience in Europe and Austria in Sustainable Energy Banking; Support Facilities Available - Part 2

Bank of Georgia
09-14 July 2013 | Tbilisi, GEORGIA

Source: Margit Kapfer - Head of Climate Change and Energy, Denkstatt
Content of the presentation

- Company introduction denkstatt GmbH
- Presentation part 1: EE/RES Financing, Terms and Technologies, European Experience, Success Stories
- Presentation part 2: Austria: Financial Support Facilities / Projects Available for EE/RES
Austria: Financial Support Facilities and Projects Available 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
European conditions

- **20% renewable energy in the year of 2020**
  - 2010: with about 12.4% above goal (goal 2011:10.7%)
  - Network expansion for EE-requirement too slow
  - Open goal for 2030
  - Long-term harmonization of conveying systems necessary

- **20% CO2-reduction until 2020**
  - 2010: with -15.3% vs. 1990 on the way to reach the goal
  - CO2-price in EU-ETS now at about 3 € - for some too low
  - Global climate agreement is out of sight - at Kyoto II (2013 to 2020) EU is extensive alone
  - Open goal for 2030, for 2050 – 80% (!)

- **20% energy efficiency until 2020**
  - Prediction for 2020 are at 10% target achievement
  - (with implementation of the energy efficiency-RL at about 17-18%)
  - Open goal for 2030
The way and conditions to the goal: The Austrian energy strategy

- 34% renewable part
- 20% increase of the energy efficiency
- **CO2-reduction:** 16% in non-ETS area & 21% in ETS area
The EU-energy efficiency guidance

- Commitment on an energy efficiency goal for 2020
  - Until 2020 in comparison to the predictions, EU-wide 20%
- Engagement system of energy efficiency
  - Annually 1.5% goal for saving final energy
- 3% restoration rate annually
  - Renovation of buildings owned and used by the central government
- Energy audits/Energy management systems
  - Obligatory implementation for all big companies every 4 years
- Requirement to determine usage and information for deduction
  - Individual counter, consumer-friendly information for deduction and cost estimate
  - Access to consumption data
- Sanction
  - “Effective, adequate and daunting” sanctions by default - to be fixed by MS
- Potential-analysis for KWK
- Availability to systems regarding accrediting and certification
- Improvement of information and training
Austria: Financial Support Facilities and Projects Available for EE/RES

Kommunalkredit (KPC)

- 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
  - Lighting switch
  - Climatisation of building
  - Energy efficiency in transport for companies
Austria: Financial Support Facilities and Projects Available for EE/RES

Austrian Research Promotion Agency FFG

- **New Energies 2020 program supports innovations.** Focus of funding is on energy efficiency, renewable sources of energy, smart energy systems and electromobility.
- **Building of Tomorrow Plus program** on energy-producing buildings and energy efficient housing.
- Transnational energy research projects with International Energy Agency (IEA), EU FP7 projects etc.
- “Smart city” or a “Smart urban region” in Austria. Smart green technologies are being applied to turn cities and urban districts into “zero emission cities” and “sustainable urban regions”.
- **“Electromobility’s Technical Beacons”** on sustainable mobility & energy supply
- **denkstatt project:** “Bio refinery”
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”)
  - E-Mobility, Traffic
  - 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
Example 1: Bundesrechenzentrum

Modernisation of lighting control

- **Environmental benefit**: Energy savings of ca. 70 MWh (~ca. 18 tons CO₂)
- **Financial benefit**: Saving of EUR 7,700 per year

Further measure: Freecooling sever room, heat pumps
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 approvement of users*!
- Organisational measures and actions to be taken to train employees – with little budget!