



AUSTRIAN ENERGY AGENCY

# Austrian Energy Agency

[www.energyagency.at](http://www.energyagency.at)

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SUPPORT\_ERS: Regional Training Seminar, 25<sup>th</sup> September 2009,  
Zagreb

# SUPPORT\_ERS: Regional Training Seminar, 25th September 2009, Zagreb

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## Supporting renewable energy sources in Austria and Vienna

# Content of the presentation

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- Overview of existing support instruments in Austria/Vienna
- Example: Environment support scheme for Austrian enterprises
- RES in Vienna: status quo and potentials

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# Existing support instruments for RES

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## **National:**

- Environmental Support Scheme for Austrian Enterprises
- Feed-In Tariffs
- Federal Promotion of Extraordinary Efficiency in Residential Buildings
- klima:aktiv
- Tax Incentives for Investments in Residential Renewable Generation and Residential Efficiency
- Subsidy Campaign for Biomass Heating Plants as well as PV for Residential Use
- Financial Incentives for Rural Biomass Energy Generation

# Existing support instruments for RES

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## **Regional:**

- Support Scheme for Residential Buildings
- Direct or loophole subsidies
- Subsidies for Biomass District Heating Plants
- Subsidies for Private Companies
- Subsidies for sports complexes
- Programme for Municipalities
- Energy Consulting Service

# Existing support instruments for RES

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## **Local:**

- Support for Renewable Energy Plants

## **Others:**

- Subsidies granted by energy supplying companies

# Support instruments for RES in Vienna

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- **SUBSIDIES:**

In the frame of the “support scheme for residential buildings” subsidies are for example granted for

- biomass boilers
- heat pumps
- solar thermal plants

- RES RELATED EDUCATION AND ON-THE-JOB TRAINING
- ENERGY ADVISORY SERVICES IN VIENNA
- ENERGY RELATED RESEARCH ACTIVITIES

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- Overview of existing support instruments in Austria/Vienna
- **Example: Environment support scheme for Austrian enterprises**
- RES in Vienna: status quo and potentials

# Environmental Support Scheme for Austrian Enterprises

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**Legal basis:** Environmental Support Act

## **Description:**

In the frame of the Environmental Support Act the Environmental Support Scheme for Austrian Enterprises offers subsidies to **companies**. Companies can obtain subsidies for the use of **renewable energies** (precondition: standards of heating and cooling equipment have to be met), for the enhancement of energy efficiency and for other **climate related measures**. In the field of renewable energies the fund supports: biomass (individual plants, local heat, CHP) heat distribution, geothermal installations, energy recovery from organic waste solar thermal systems, electricity producing plants. The fund is managed by **Kommunalkredit Public Consulting GmbH (KPC)** on behalf of the Federal Ministry of Agriculture and Forestry, Environment and Water Management. In 2008 **2,607 projects** with a total investment volume of €437.6 million and a **total funding of €82.4 million** were supported.

# Environmental Support Scheme for Austrian Enterprises

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## **Information/Assistance:**

Besides folders and brochures being printed, information on the Environmental Subsidy Scheme for Austrian Enterprises is mainly provided online. Furthermore, staff of the Kommunalkredit Public Consulting GmbH also inform potential beneficiaries via phone and they organise workshops and seminars.

## **Preparation of applications:**

Detailed information on the necessary application documents is available on the website from which the relevant documents can be downloaded. Specific information on the eligibility criteria is also available online. Personal guidance on how to fill the application documents is also provided when necessary.

When applying for a subsidy in the framework of the Environmental Subsidy Scheme for Austrian enterprises, technical and economic criteria have to be met. The criteria are laid down in a handbook and in specific information sheets.

**CORE INDICATORS:** Size of company, Type of company, Project location, etc.

**ENVIRONMENTAL INDICATORS:** **reduction of** fossil energy (coal, oil, gas, electricity,...), emissions (CO<sub>2</sub>, dust,..), etc.; **production of** biomass, biogas, solar energy, etc.

In addition to stating the **core and environmental indicators**, **technical data** has to be supplied in order to assess the project's environmental impact.

# Environmental Support Scheme for Austrian Enterprises

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## Procedures:

The most important steps when submitting a project in the framework of the Environmental Subsidy Scheme for Austrian Enterprises are:

- 1. Application:** request for funding before the project is actually implemented
- 2. Processing:** experts check whether the project is technically and economically eligible for funding
- 3. Recommendations of funding:** applicant is informed by the amount he/she might receive → applicant may comment
- 4. Final check and approval by the Minister of Environment**
- 5. Contract issuance and contract acceptance:** contract is signed
- 6. Project finalisation:** no longer than 12 month after completion of the project, the applicant has to issue a final settlement (including invoices, receipts of payments, etc.)
- 7. Final settlement:** checking of the final settlement
- 8. Payment**
- 9. Monitoring:** In order to make sure that the project has a positive environmental effect, it is randomly inspected.

# Environmental Support Scheme for Austrian Enterprises

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## **MONITORING and EVALUATION:**

Exemplary indicators used for the evaluation are:

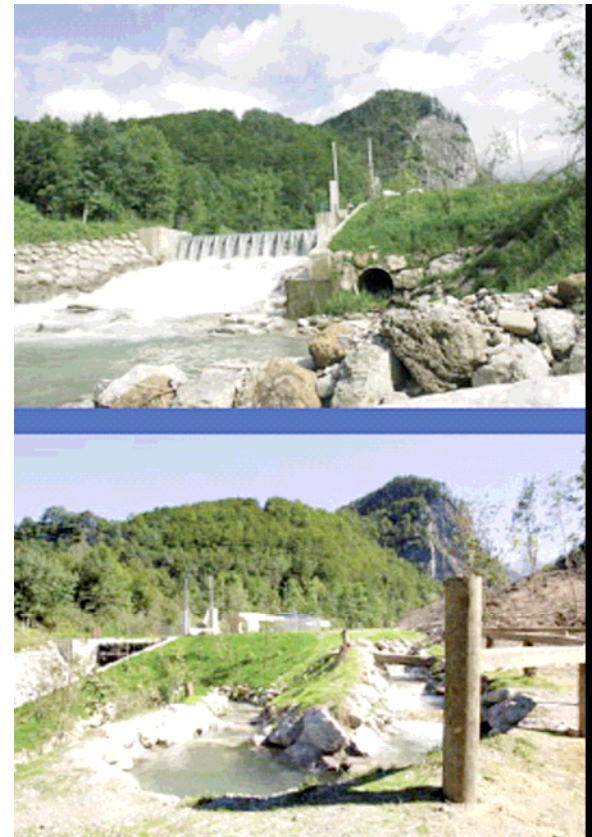
- installed capacity
- renewable energy production
- amount of energy saved
- GHG emission reductions
- etc.

# Best practice examples

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## Revitalisation of the Hydro Power Plant “Hieflau” destroyed by the flooding in 2002

- renewable energy production/year:  
8.8 million kWh
- GHG emission reduction/year: 6,500 t
- total project costs: 4.9 million EUR
- total subsidy: 1.32 million EUR (27 %)



# Best practice examples

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## **Installation of a biomass heating plant for heating and hot water supply and installation of an 6,500 m long district heating net**

- installed capacity: 2,300 kW
- fossil energy sources saved: 466,000 l oil, 995000 m<sup>3</sup> gas, 88 t coal
- GHG emission reduction: 3,200 t/year
- total project costs: 2.76 million EUR
- total subsidy: 384,074 EUR (30 %)



# Best practice examples

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## Using brewer grains for heating in an Austrian brewery

- input: 8,000-10,000 t brewery grains per year
- GHG emission reduction: 2,000 t/year
- total project costs: 1,25 million EUR
- total subsidy: 384,074 EUR (31 %)



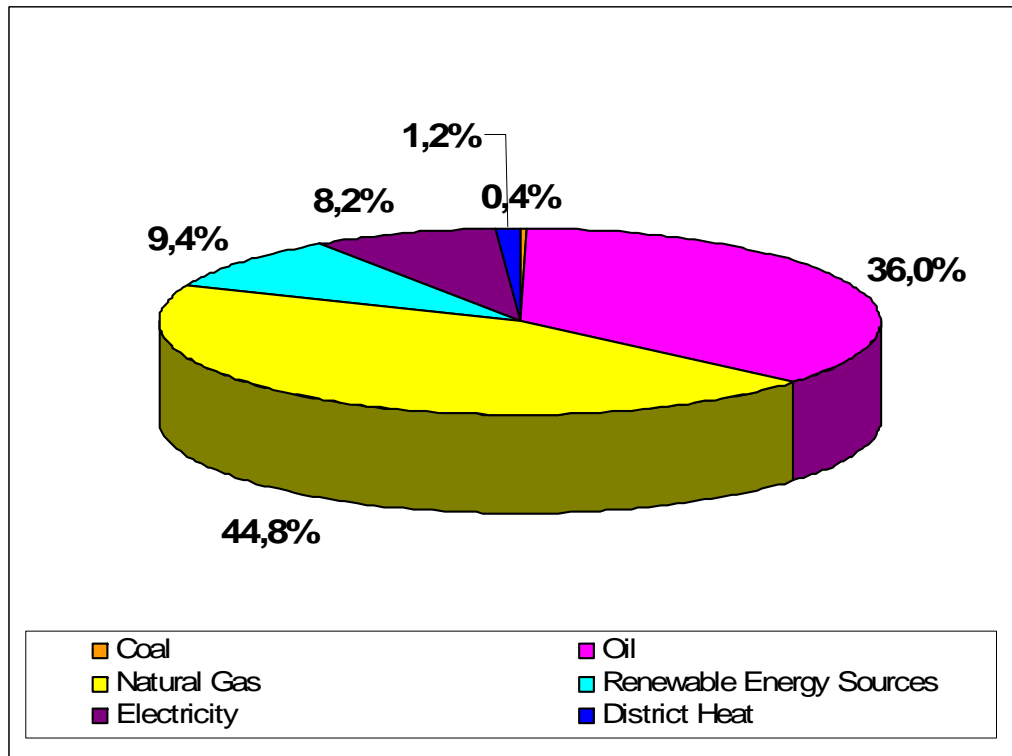
# Content of the presentation

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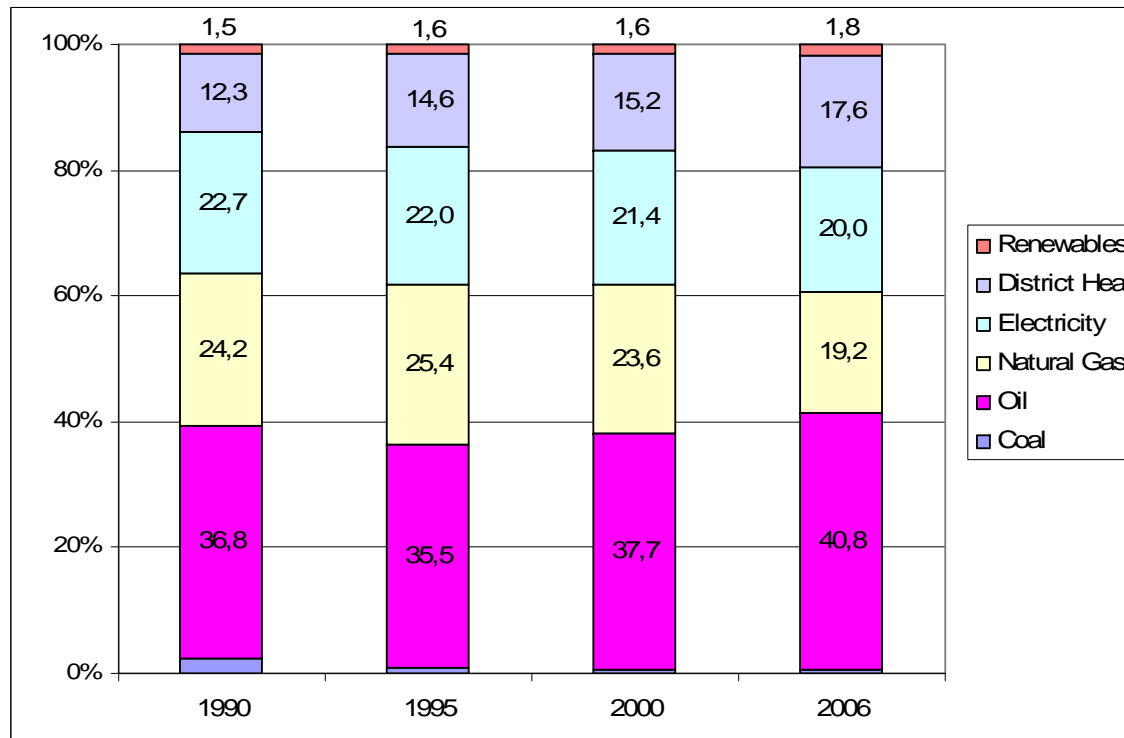
# Total primary energy supply in Vienna

In 2006, the total primary energy supply of the Austrian Federal Capital Vienna (1.66 million inhabitants) was 163 PJ:



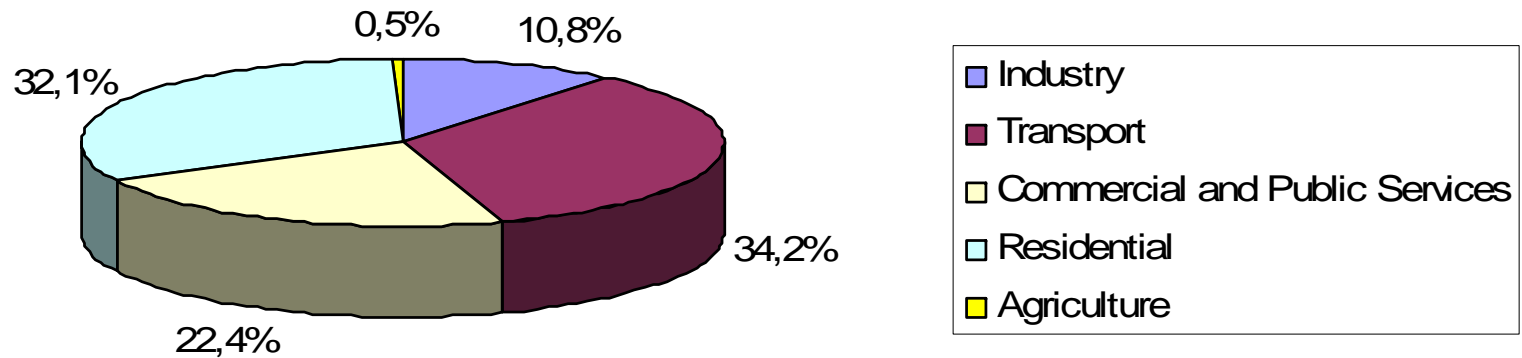
# Final energy consumption in Vienna

In 2006, the final energy consumption was 140 PJ:



# Sectoral final energy consumption in Vienna

In 2006 around 87 % of the oil went into the transport sector, which also has the biggest share of the final energy consumption:



# Examples for RES potentials in Vienna

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- **DISTRICT HEATING/COOLING**

The demand for heat is estimated to **increase by 100 GWh per year**: Therefore heat production from waste incineration will increase by approximately 500 GWh until 2019/2020. (→ According to the Viennese „waste concept 2007“ the renewable share of waste is 55 %.)

- **SOLAR THERMAL**

According to the business-as-usual szenario (subsidy for solar plants in residential buildings) 10,000 households will use the heat from solar thermal plants. The target of the city is even 40,000 households in 2020.

- **PV**

potential is up to 10 % of the city´s final electricity demand

- **Wind**

total potential 40-63 GWh/a

# Thank you for your attention!

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