

# energy efficiency monitoring austria

## Implementation of Directive 2006/32/EC in Austria

**Heidi Adensam**



# Austrian Energy Agency



## Agency

- Austria's national energy agency since 1977 / 80 employees and 8 Million € annual turnover

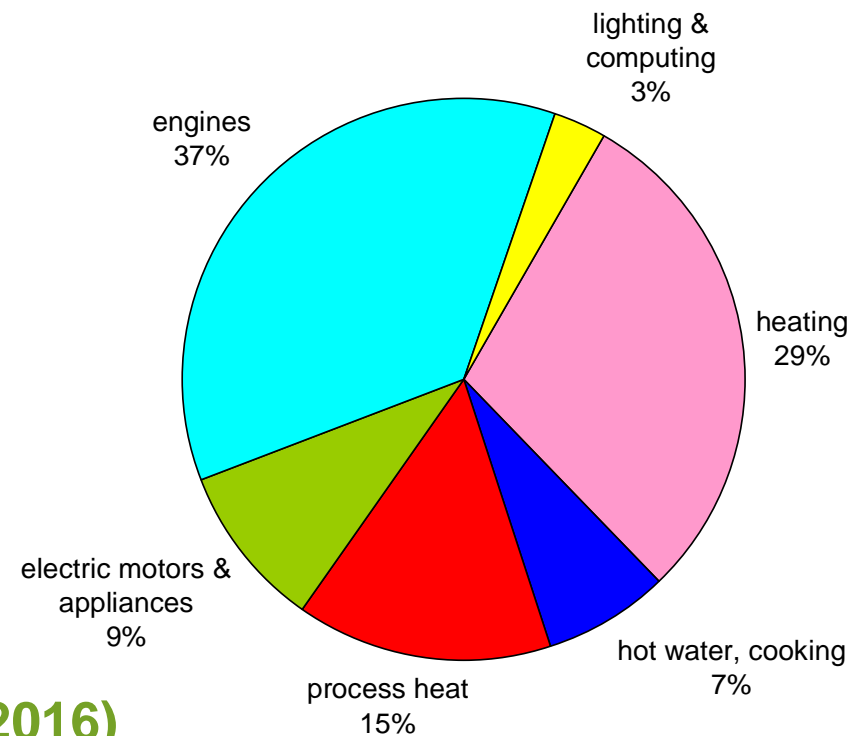
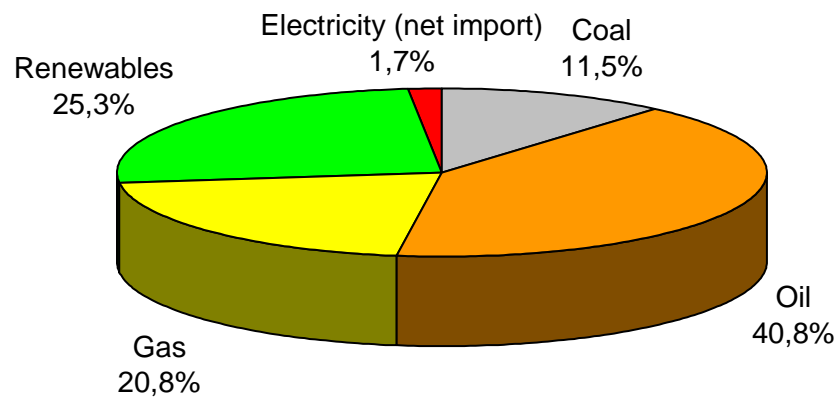
## Main topics

- energy efficiency
- renewable energy
- innovative energy technologies

## Official Austrian energy efficiency monitoring body (Art. 4)

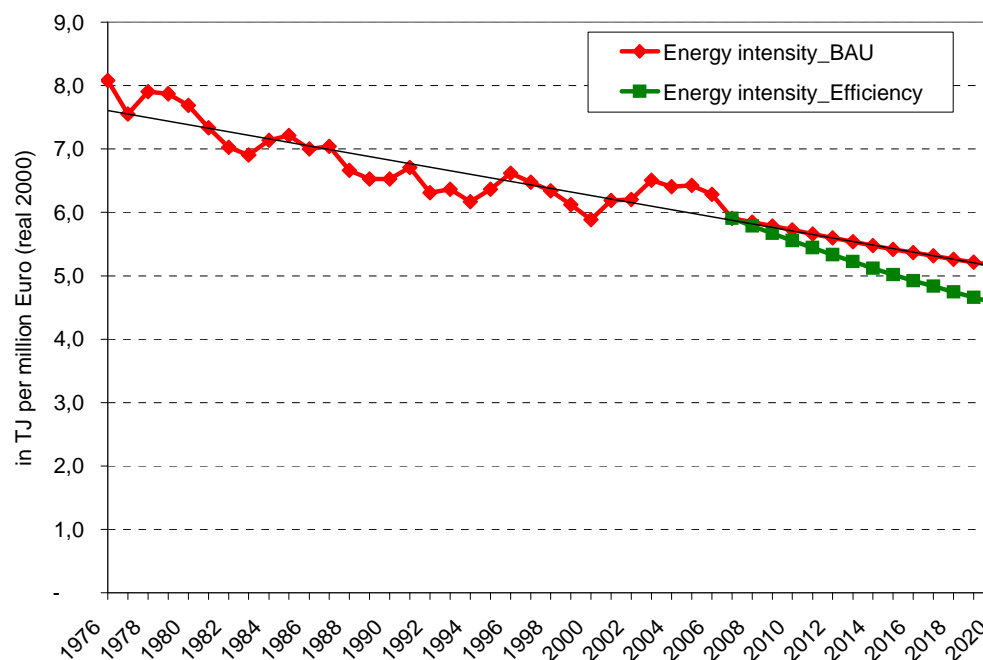
- 1st – 2nd NEEAP
- estimation of energy savings potentials
- development of Bottom Up and Top Down Methods to measure energy savings
- measurement of energy savings
- documentation and reporting of savings

# Austria's structure of energy consumption (2007: 1.419 PJ)



**Indicative ESD-target: 80,4 PJ (2016)**

# Additional drop in energy intensity necessary



	average growth rate in %
1976 - 2007	-1,0
1990 - 2007	-0,6
2007 - 2020_BAU	-1,0
2007 - 2020_Efficiency	-2,0
	change in %
2007/1976	-26,9
2007/1990	-9,5
2020_BAU/2007	-12,7
2020_Efficiency/2007	-22,7



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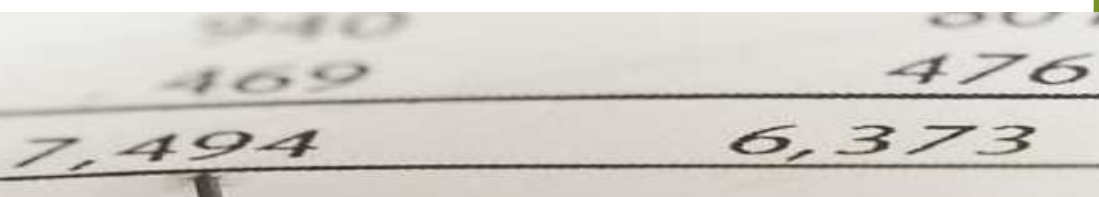
- Legislation
  - 9 provincial governments and federal government
  - Comprehensive Energy efficiency laws, adaptation of single laws
  
- Art. 6 voluntary agreements with energy distributors, distribution system operators and retail energy sales companies
  - partners associations
  - Responsibility for parts of the indicative target
  
- Information, Funding and Incentives for EEMeasures
  - More than 300 measures in the NEEAP



# How to reach the target of the Energy Savings Directive



Measures	Potential in PJ/a 2020	Additional investments in Mio. Euro/a	Employment
Buildings/heating	40,9	464	105.030
Transport	40,5	1.238	266.105
CHP	5,5	1	0
Electricity use	6,6	55	9.330
<b>Total</b>	<b>93,3 PJ/a</b>	<b>1.757</b>	<b>380.465</b>



# Selected measures in the NEEAP concerning households

## ■ Building envelope:

- building laws requirements
- subsidy schemes for buildings
- promotion of passive buildings
- increase of renovation rate

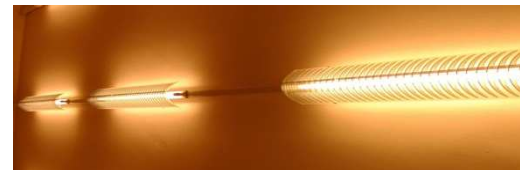


## ■ Building services:

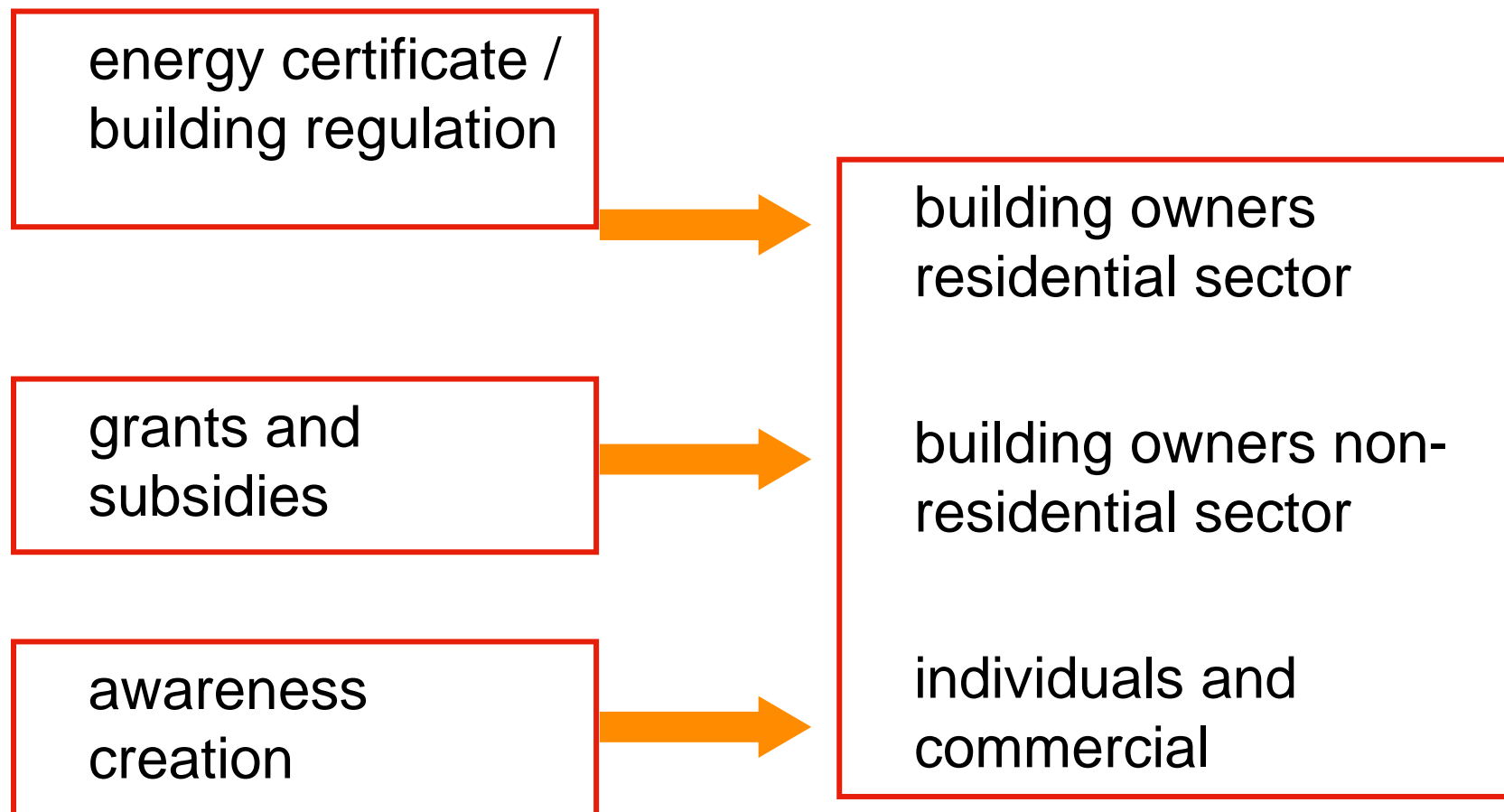
- district heating
- heat pumps
- optimisation of heating installations
- periodically inspection of heating installations, etc.



## ■ Promotion of efficient households appliances, replacement of light bulbs, energy-check for every household, ...



# Policy instruments and target groups





# Selected measures in the EEAP concerning the public sector

- Increase of energetic standards for the envelope of administration buildings
- Innovative building services
- Efficiency criteria for public procurement, bundling of purchasing volumes
- Efficient interior and outdoor lighting
- Minimum energy efficiency criteria in urban and regional planning
- Energy accounting
- Energy contracting within the Federal building stock



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**Life is work in progress!**

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