



Training initiatives & successful retrofitting of social housing

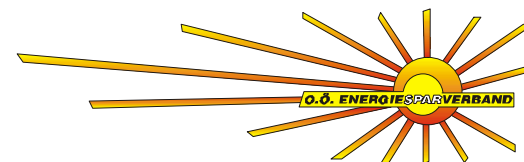
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ESV-Design



Energy Action Plan of Upper Austria

1994 - 1999

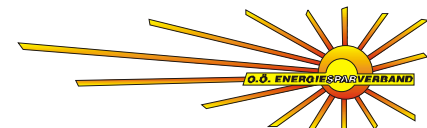
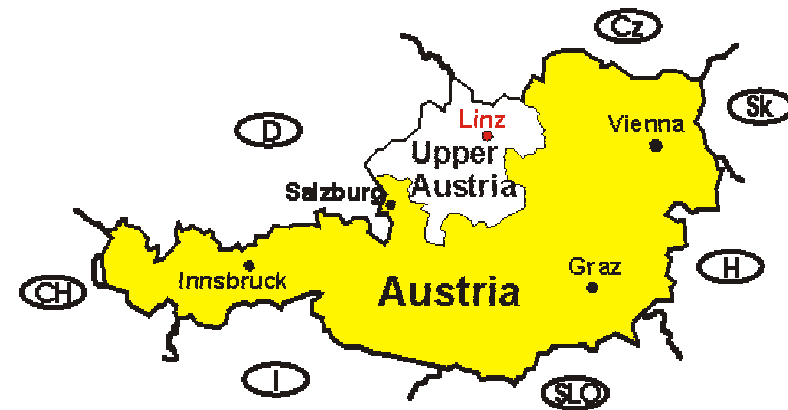
30 % renewable energy (14 % hydro, 14 % biomass, 2 % solar)
energy consumption in new housing reduced by 30 %
15,000 jobs

2000 - 2010

double biomass & solar
increase energy efficiency by 10 %

O.Ö. Energiesparverband

regional energy agency
energy efficiency, renewable
energy & innovative technologies
main funding: regional government
services to private households, SMEs, public bodies



Building strategies in Upper Austria

Energy performance indicator

Energy certification / labelling

Training & education

Subsidy programmes

Advice & information

Legal thresholds



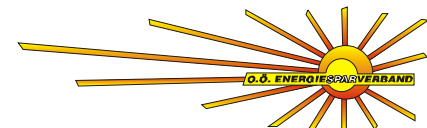
In Austria, the regions are responsible for the implementation of the Buildings Directive.

Results sustainable housing programme 1993-2006

- managed by O.Ö. Energiesparverband
- 56,000 homes (new & renovation):
 - energy performance indicator
 - energy certificate
 - energy advice session
- 400 mio. kWh energy savings/a



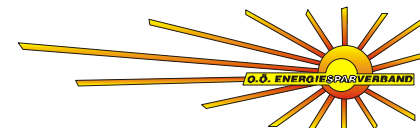
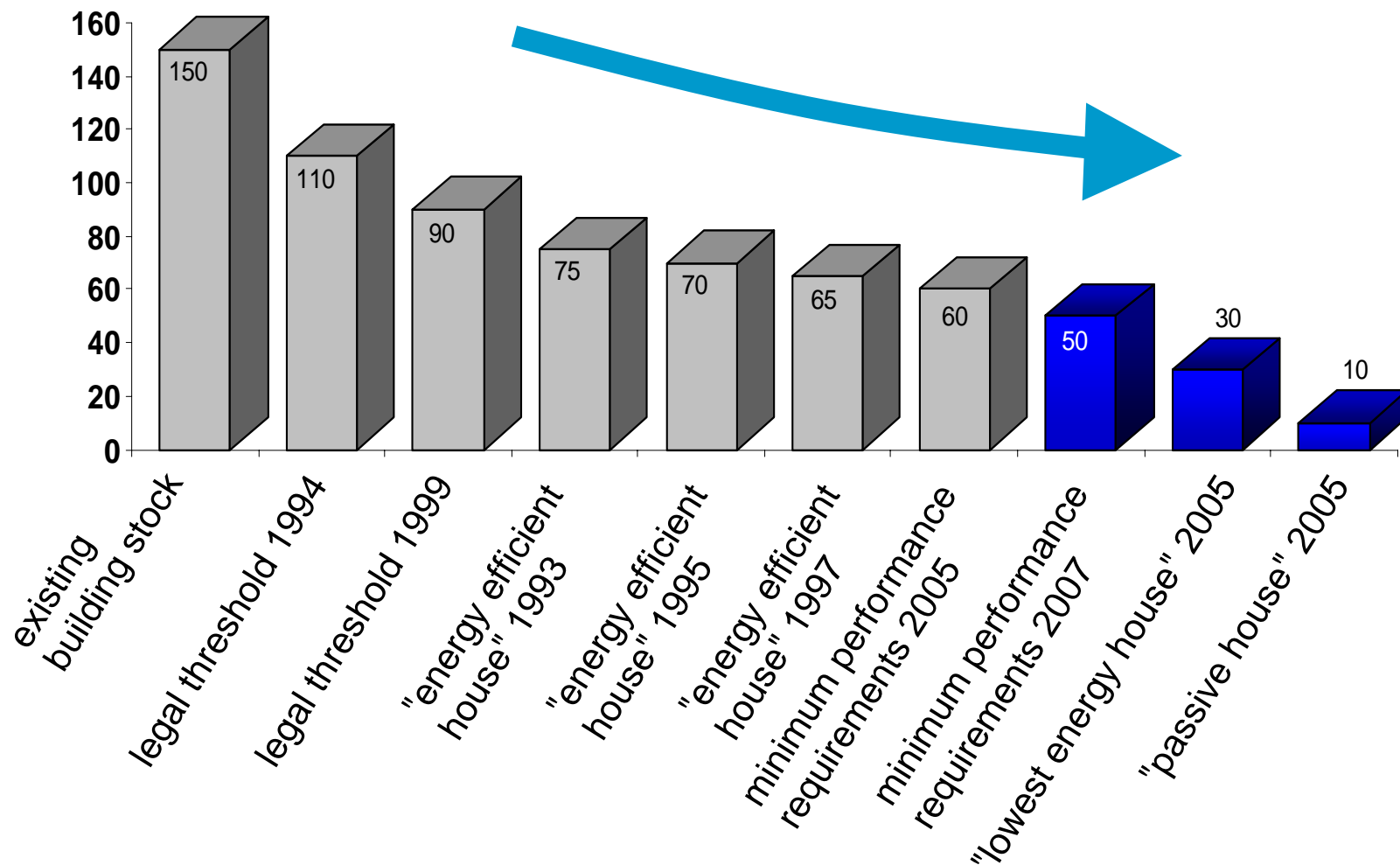
	2003	2004	2005	2006
energy efficient homes	67%	45%	24%	15%
low energy homes	31%	52%	71%	78%
passive homes	2%	3%	5%	7%
average indicator (kWh/m ² ,a)	56	53	50	48



Building Trends in Upper Austria



kWh/m²,a



Training seminar

"Innovative Technologies for the retrofitting of apartment buildings"



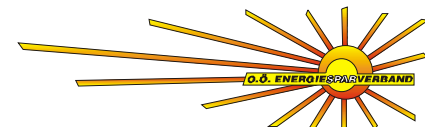
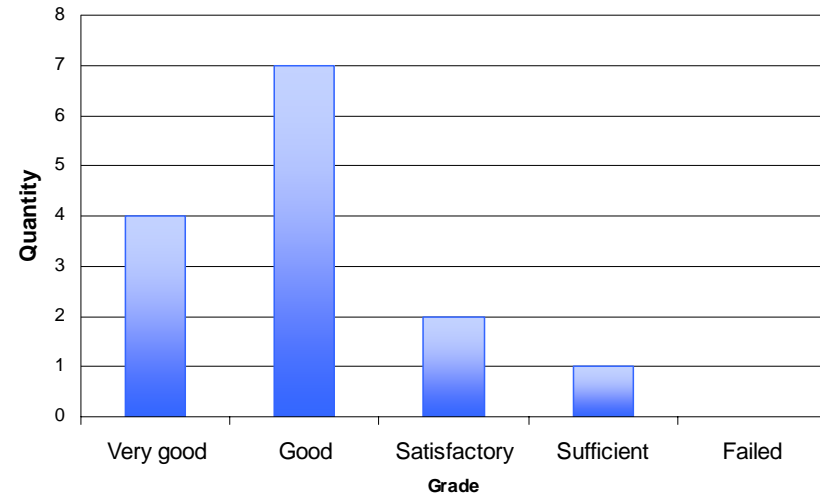
- 13 & 14 June 2007 (two-days-seminar)
- Site visit to a passive house retrofitting project
- 28 participants
- Participants: Housing organisations, architects, planners, consultants
- Next seminar: 27 & 28 November 2008



Training seminar - Topics

- Innovative technologies (development)
- Building envelope
- New innovative materials
- Windows
- Air tightness and mould
- Mechanical ventilation systems
- Integration of solar thermal systems and biomass heating systems
- Best practice examples

Grading of the training seminar



World Sustainable Energy Days 2008

www.wsed.at

5. - 7.3.2008


Wels / Austria

Call for Papers

10. 10. 2007

Deadline



Intelligent Energy  Europe

