

AIDA

**AFFIRMATIVE
INTEGRATED
ENERGY
DESIGN
ACTION**

www.aidaproject.eu



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WIEN

Vienna University of Technology



Highlights of Austrian Building Technology

Raphael Bointner

Technische Universität Wien

Energy Economics Group (EEG)

www.eeg.tuwien.ac.at

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nZEBs: Challenges for the decade

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“Energy performance of buildings”-directive

2010/31/EU

- **nZEB-standard** for public buildings by 2019
- By 2021 for ALL renovations and new buildings
- Independent, skilled workers
- „*achieving cost-optimal levels...*“ 2010/31/EU, Art. 4.1
- Further Info on EPBD-implementation and support in policy making → www.entranze.eu





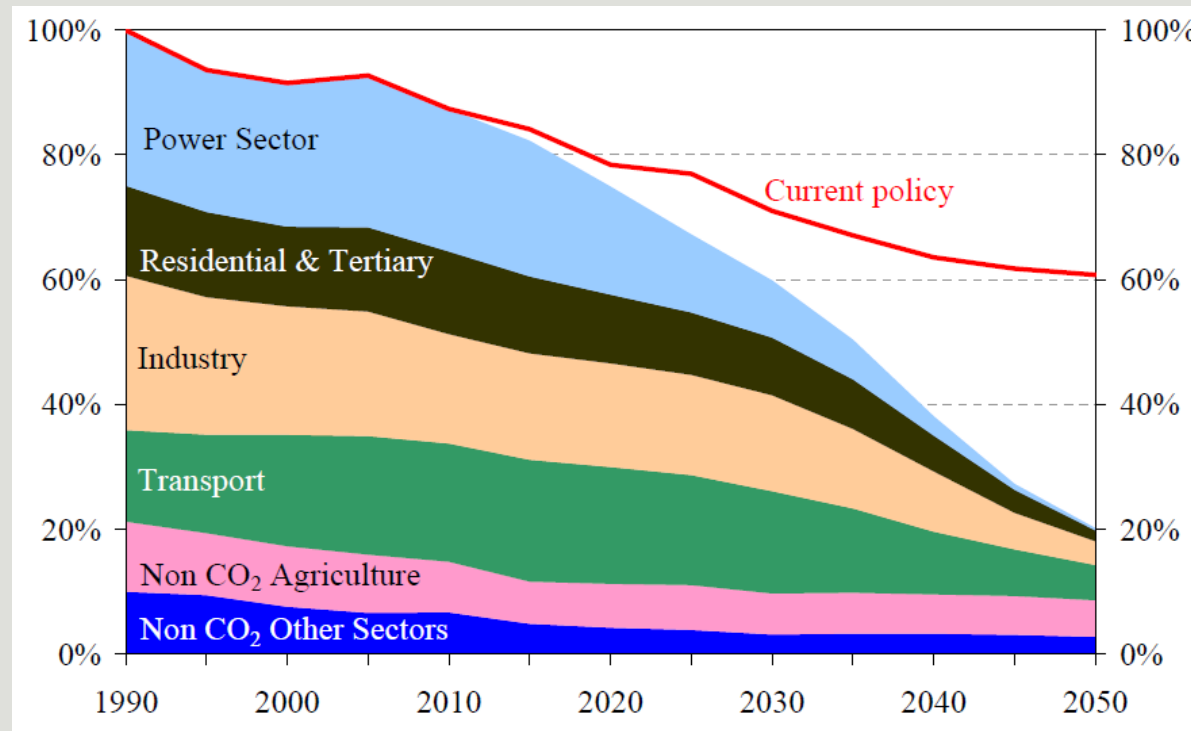
nZEBs:

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Challenges for the next decades

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„GHG emission reduction by 80 % to 95 % in the EU“



European target for CO₂-reduction according to the EU
Low-Carbon-Roadmap 2050, COM(2011) 112



Optimal solution?

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AIDA for YOU!

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International study tours

- Vienna
- Lyon
- Athens
- Budapest
- Barcelona... & many more!

nZEB in municipal practice



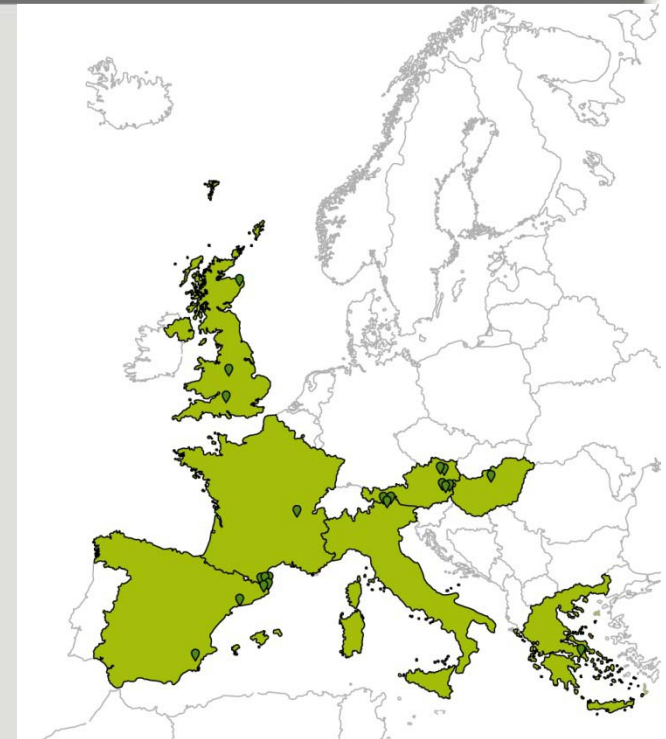
- Best practice in new buildings & renovations
- SEAP Assistance
- Many reports available!



International network; contact: Peter Schilken/Energy Cities



Co-funded by the Intelligent Energy Europe
Programme of the European Union





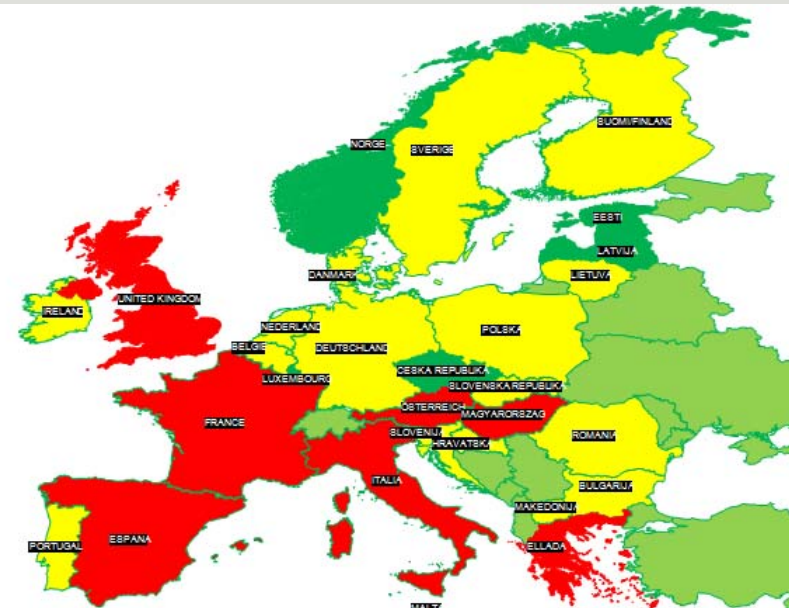
Innovatives Gebäudedesign in multifunktionalen Gebäuden

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Affirmative Integrated Energy Design Action

- ✓ AIDA aims to accelerate the market entry of nearly zero-energy buildings (nZEB)
- ✓ AIDA supports **municipalities** and **building professionals**
- ✓ AIDA is financed by the European Commission (IEE)
- ✓ AIDA in many countries!
- ✓ April 2012 – März 2015





TU Wien Plus-Energy Office

(Renovierung)

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| | |
|---------------------------------------|--|
| Gross floor area | 7.322 m ² (10 storeys) |
| Energy demand for heating | 3,4 kWh/m ² a |
| Energy demand for cooling | 2,5 kWh/m ² a |
| Energy demand for lighting | 5,6 kWh/m ² a |
| Energy demand for ventilation | 1,0 kWh/m ² a |
| Total primary energy demand | 82 kWh/m ² a |
| PV-system | Austrias largest integrated PV system on the roof and the facade |
| Heating and domestic hot water system | Heat pump & district heating |



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Raiffeisen-Tower

1st Passivhaus office tower

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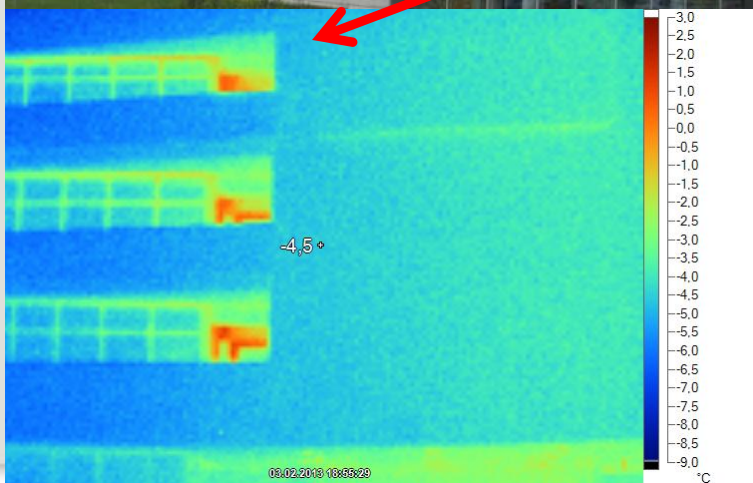
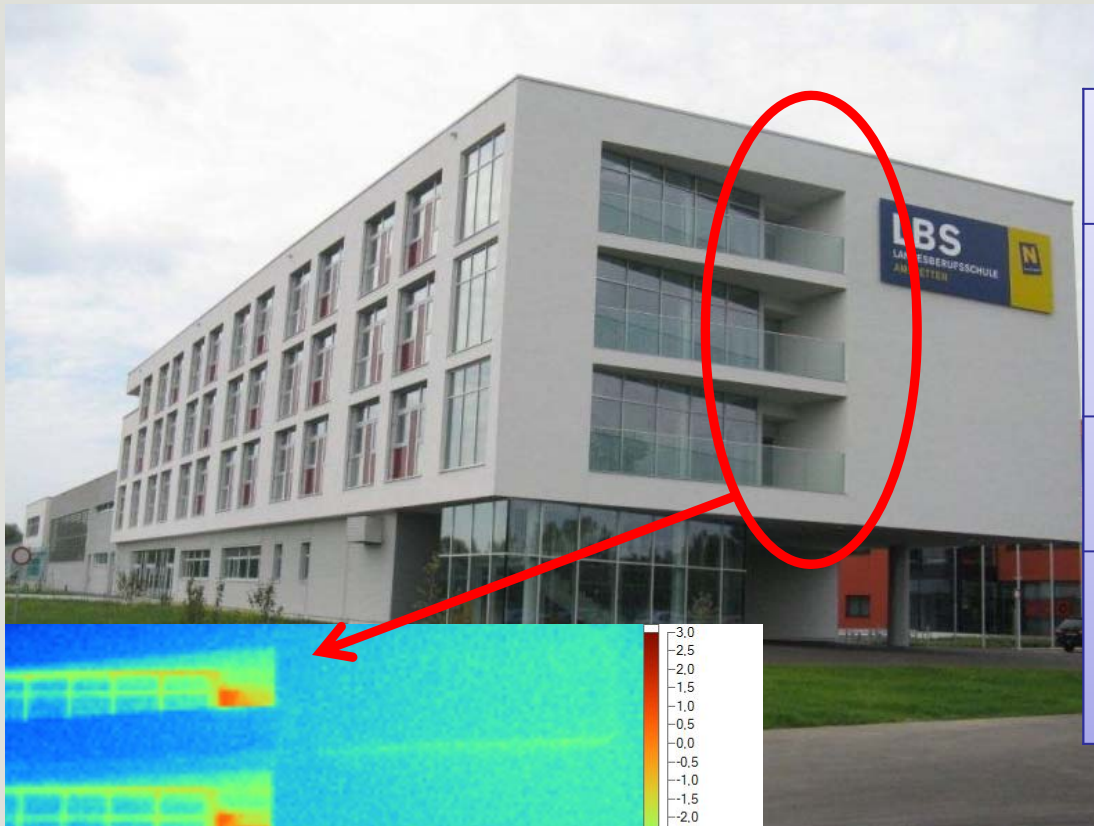


Vocational school

(school, office, workshop, dorm & canteen) nZEB in Amstetten, Austria

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| | |
|---------------------------------------|-----------------------------------|
| Multifunctional building | |
| Energy demand for heating | 20 kWh/m ² a |
| PV-system | 5 kw _p tracking system |
| Heating and domestic hot water system | Biomass district heating system |



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Assistance in the development of NZEB-roadmaps for members of the covenant of mayors www.eumayors.eu

Your nearly zero-energy building lowers operation cost and sets a positive example for the local community and neighbouring municipalities!

Assistance for municipalities in the planning process of a new building or a major renovation (e. g. kindergarten, city hall, residential housing)

FOR MAYORS, MUNICIPAL REPRESENTATIVES AND LOCAL AUTHORITIES

BUILDING PROFESSIONALS, ARCHITECTS AND MASTERS

Guidance in using nearly zero-energy design software

First-hand information on developments and trends

National and international study tours to innovative buildings

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90 likes · 1 talking about this

Non-Profit Organization
Supporting building professionals and local authorities all over Europe in designing nearly zero-energy buildings (NZEB).

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Highlights

AIDA project shared a link.
Monday

"Inventing Nearly Zero Energy Buildings for tomorrow" - Meet AIDA in Energy Cities Annual Rendezvous, Växjö, Sweden, 24-26 April 2013 - in Växjö, Kronobergs Län.

Energy Cities
energy-cities.eu

Energy Cities, the European Association of local authorities inventing their energy future.

Recent Posts by Others on AIDA project

Magyar Passzívház Szövetség, Mapasz
Sajnos nem tudunk részt venni a mai rendezvényen, bár...
February 15 at 3:51am

Rita Balázs
A Virtuális Erőmű Program várja energiatudatos, és energi...
January 22 at 12:27am

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