

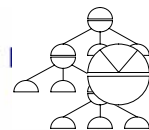
Energy saving in the Netherlands

Rc, EPC, EPA and EPBD

stichting

Expertisecentrum Regelgeving Bouw

www.bouwregelwerk.org



FS = Functionele Specificatie
TO = Technische Oplossing



Oil crisis I 1972

- Private standard NEN 1068
- Model building bylaw 1983: R_c for living rooms $1,3 \text{ m}^2 \cdot \text{K/W}$
- Sharpening 1986: R_c : $2,5 \text{ m}^2 \cdot \text{K/W}$ and double glazing
- 1992: Building Decree $\rightarrow 2,5 \text{ m}^2 \cdot \text{K/W}$ and $U < 4,2 \text{ W/m}^2 \cdot \text{K}$ for whole living area and airtightness

Energy performance of buildings

- Newly built
- 15 December 1995
- Standards: NEN 5128 en NEN 2916
- Sharpening:
 - 01.01.1998
 - 01.01.2000 (twice)
 - 01.01.2003
 - 01.09.2005
- Lot of innovations

Energy performance advise

- Existing stock
- Assessment guideline
- Certified advisors
- Subsidising system for inspection and advise

EPBD

- Directive 2002/91/EG, 16 December 2002
- Implementation: by 04.01.2006

Content

- Methodology for determination methods
- Minimum requirements for newly built buildings
- Minimum requirements of renovation
- Energy certification of buildings (existing and newly built)
- Checking heating appliances and HVAC-systems

End
2002

Begin
2006

What is in NL
Already available

Energy Performance Directive

- 1. EP calc. method
- 2. Min.requi. new buildings and major renovations
- 3. EP certification buildings
- 4. Regular check boilers and HVAC systems

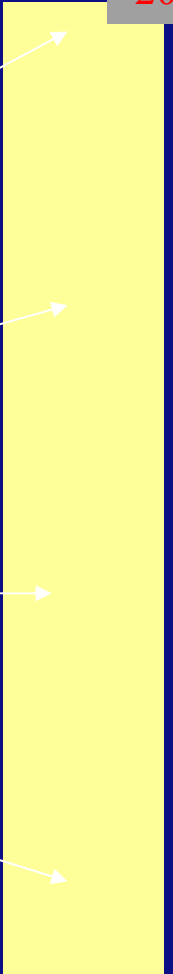
EPW
EPA-W
EPU
EPA-U
EDR

Bouwbesluit (regelgeving)

Certificering

Proces- en product-certificering
ISSO / KBI

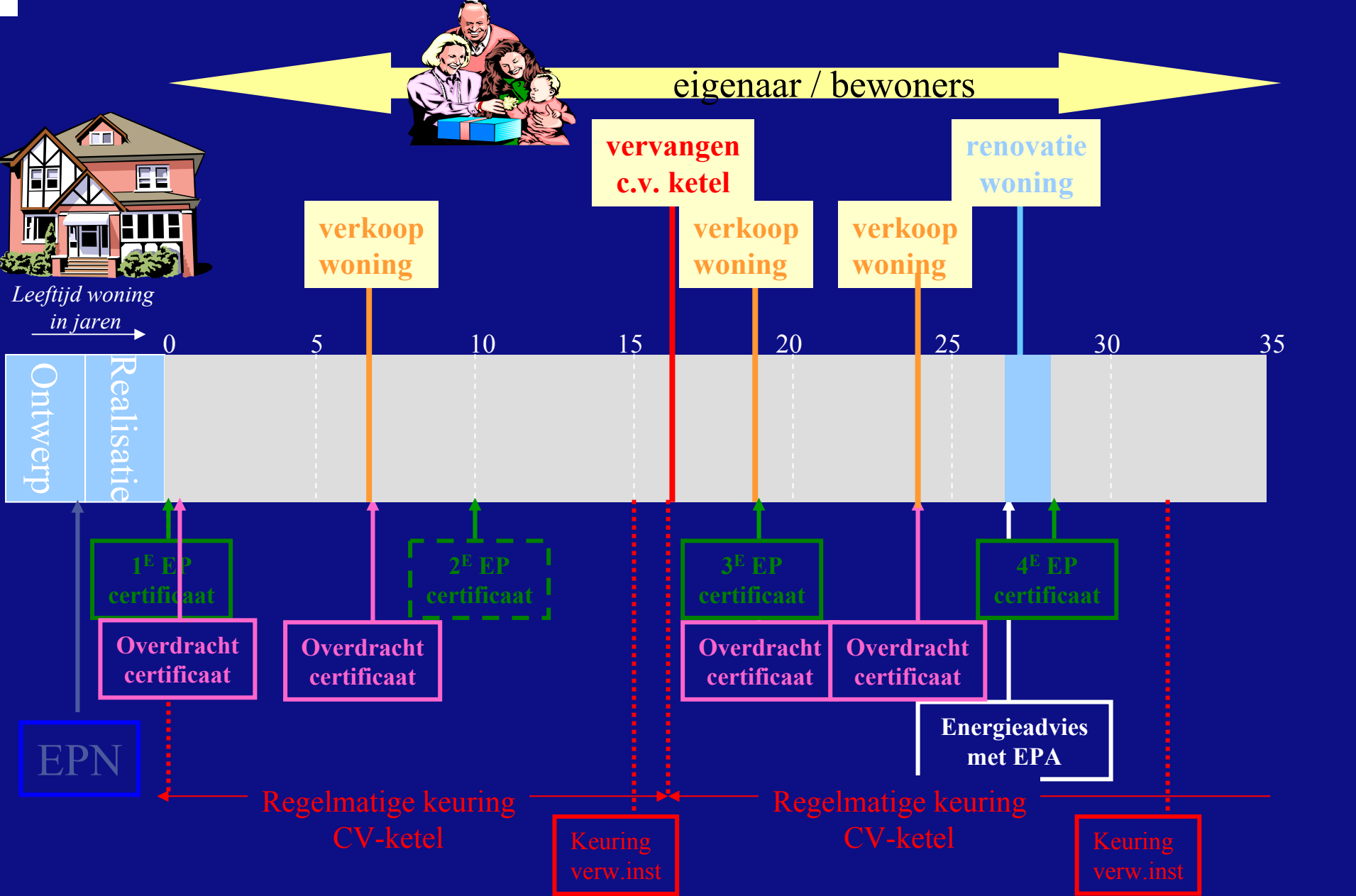
Wet Milieu Beheer
ISSO-publicaties



When finished

Development & implementation

Execution / monitoring & revising EPD



Implementation

- New Decree: Decree Energyperformance buildings
- New Ministerial order
- New certification guidelines
- Standardisation initiatives (new committee)

- European research, transfer of know-how and CEN standardisation

- Control in private area

Problems

- Cost effects
- Influence existing determination methods
- Lack of experts in the certification field
- Letter to CEC by Government

Situation today

- 09.05.2006 end of consulting period new Decree
- Next month in procedure
 - EPC in Building Decree
 - Energy certificate in Decree of energy performance at the moment of buying, selling and renting
 - No legal duty for checking appliances, but stimulation
- Ministerial still under preparation