

Für Mensch und Umwelt

Umwelt   
Bundesamt

Stakeholder meeting 23.1.2018

# 2013/813/EU C4 boilers

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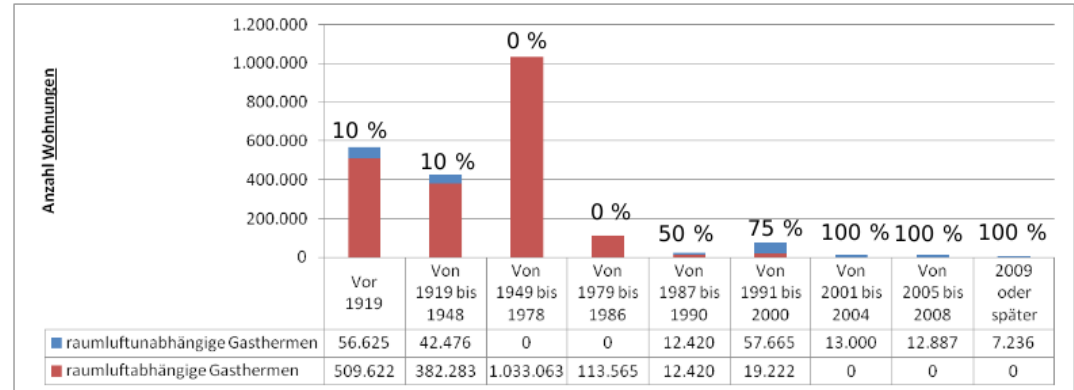
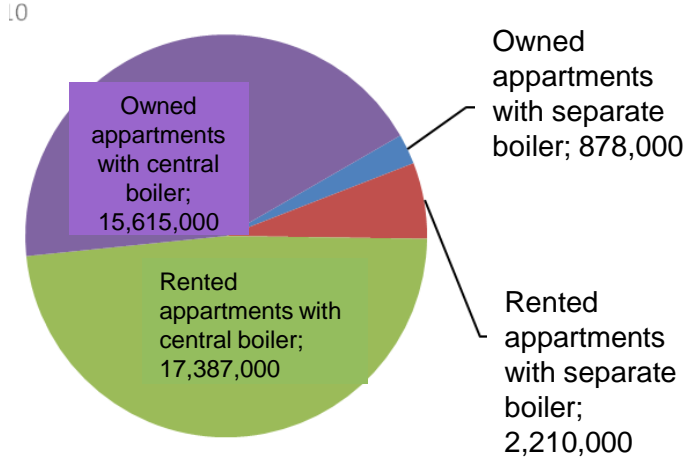
I 2.4 – Energy Efficiency

## Regulation 813/2013/EU

- Since 26.9.2015 space heaters (up to 70 kW) must meet:  
seasonal space heating energy efficiency  $\eta_s \geq 86 \%$   
=> condensing boilers as minimum standard
- The installation of condensing boilers instead of non-condensing requires:
  - improvement of the chimney against condensate
  - replacement of all boilers at a collective chimney because only boilers of the same type are allowed at a collective chimney (Exemption only for B1 boilers (up to 10/30 kW):  $\eta_s \geq 75 \%$ )

**But: difficulties with other types of non-condensing boilers at collective chimneys: C4 (B3, C8), especially in condominium apartment buildings**

# Dwellings with shared chimneys



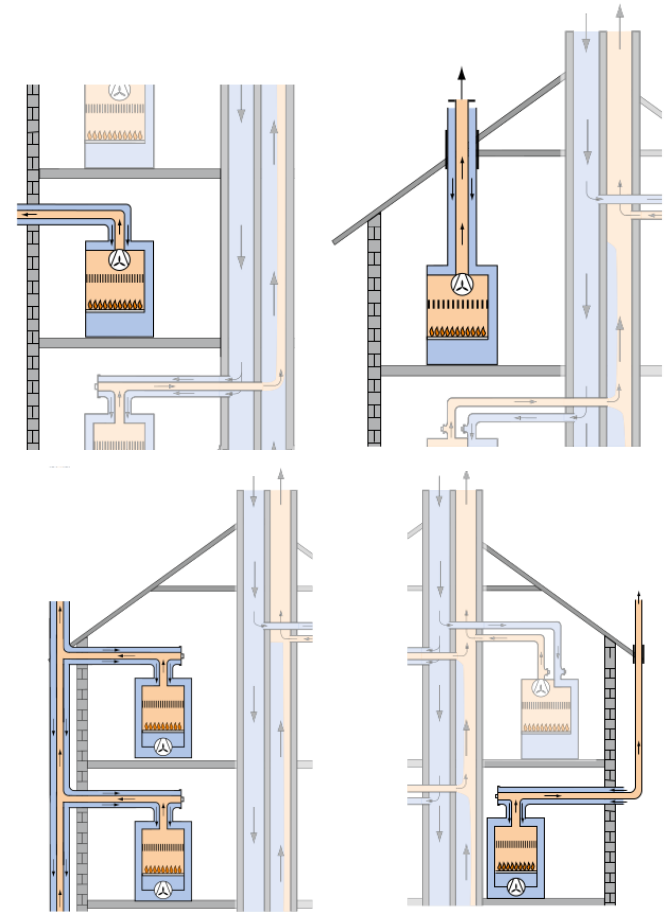
Sonderauswertung de.statistik.de, eigene Schätzung

- Dwellings in DE: 3,1 Mio (8,6 %) with boilers at collective chimneys, of which:
  - 878.000 with multiple owners
  - 2.210.000 rented
- (821,000 in buildings with 1..2 dwellings => excluded)

- Rough estimation: about 200,000 to 300,000 (0.7...1 %) dwellings with C4 boilers at collective chimneys
- Number confirmed by survey of housing association (0.8 %)
- Of which: about 1/3 in properties with multiple owners

# Technical solutions

- Repair / second-hand products
- Alternative installations as far as known (see pictures)
  - => for many, but not all cases
  - => other installations: not approved
- Installation of central boiler
  - => expensive and time-consuming, difficult for apartments with broken boilers



## Ways forward to be assessed in the study:

- Production lines for non-condensing C4 boilers still available?
- Exemption for C4 possible in regulation? (integration of new circulators, adaption to NOx requirements...)
- Exemption for C4 fraud-proof? (installation of C4 as almost any type possible  $\Leftrightarrow$  B1)
- Other ideas?

# Thank you for your attention!

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<http://www.uba.de/themen/klima-energie>

