



**MINISTERIUM
FÜR EIN
LEBENSWERTES
ÖSTERREICH**

bmlfuw.gv.at

AUSTRIA – PUBLIC AWARENESS ON RESIDENTIAL HEATING EMISSIONS

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PROBLEM

Share of emissions from residential heating in Austria:

- > More than 1/3 of PM_{2.5},
- > more than half of dioxins,
- > more than 2/3 of PAH



Mainly caused by

- > solid fuels (biomass, as coal no longer used)
- > manually filled stoves and boilers
- > wrong operation (e.g. air supply)
- > wrong fuels (moist wood, household waste, ...)

One solution: Awareness raising



BROCHURE (1)

Geneva, July 1st, 2014

Brochure – in co-operation with chimney sweepers
and medical association

Information on

- > Pollutants
- > Health effects
- > Proper fuels
- > Air supply
- > Maintenance

and ...





BROCHURE (2)

Geneva, July 1st, 2014

... how to light-up stoves with low emissions (lighting at the top)



WEBSITE (1)

<http://richtigheizen.at/>

Geneva, July 1st, 2014

Contents of brochure

and extended info, e.g.

Advice on new heating systems

Legal issues

How to deal with high emissions in the neighbourhood



The screenshot shows the website interface for 'richtigheizen.at'. At the top, there is a navigation bar with 'Home', 'Kontakt', and 'Impressum'. Below this, a large image of a fire is displayed. The main content area is titled 'Emissionsbelastigung - was tun?' and includes a sub-section 'Emissionen in der Nachbarschaft – Was tun, wenn es störend wird?'. A flowchart on the right side of the page outlines the steps to take: 'Belästigung' leads to 'Persönliches Gespräch mit den Nachbarn', which leads to 'Bürgermeister oder Bezirksvorsteher', then 'Sachverständiger', and finally 'Rechtsweg'. The left sidebar contains a menu with categories like 'Richtig heizen', 'Der richtige Ofen', 'Gesundheit', and 'Recht'.



WEBSITE (2)

http://richtigheizen.at/

Geneva, July 1st, 2014

Online calculator:

Data on building

Data on heating system

Data on fuel wood

> Estimate of emissions, energy demand and reduction potentials

The screenshot shows the website interface for 'richtigheizen.at'. The main heading is 'Brennstoff sparen! - Der Online-Rechner'. Below this, there is a table for 'Energie aus den eingesetzten Brennstoffen' (Energy from the used fuels) with columns for fuel type, energy content, and emissions. The table shows values for Steinkohle, Koks, and a total (Gesamt) of 5.912 kg/a, 10.09 m³/a, and 6.365 g PM10/a.

Below the table, there is a section for 'Brennholzfeuchte und Brennholzwassergehalt' (Wood moisture and wood water content). It shows that the estimated wood moisture is 24% dry substance and the estimated wood water content is 19% fresh mass. A note states that the wood moisture is within 25% of the range for emission-saving, energy-efficient combustion.

There is a paragraph explaining that moist wood increases energy requirements and that using dry wood is more beneficial. It also provides links for further information: 'Richtiger Brennstoff', 'Richtiges Anheizen', and 'Schadstoffe durch falsches Heizen'.

The 'Energiebedarf' (Energy requirement) section contains a table with columns for 'Art der Heizung' (Type of heating), 'Energiebedarf' (Energy requirement), and 'Anteil' (Share). The table shows that individual stoves require 3.173 kWh/a (12% share) and central heating requires 23.895 kWh/a (88% share).

A paragraph explains that energy requirements depend on building quality, heating technology, and fuel storage. It also provides links for further information: 'Maßnahmen zur Reduzierung des Energiebedarfs' and 'Emissionen durch falsches Heizen'.

The 'Maßnahmen' (Measures) section contains a table with columns for 'Maßnahme' (Measure), 'Energiebedarf' (Energy requirement), and 'Feinstaubemission' (Fine dust emission). The table shows that thermal renovation reduces energy requirements by 73.1% and fine dust emissions by 73.1%, while renewing individual stoves reduces fine dust emissions by 2.1%.



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Geneva, July 1st, 2014

Thank you for your attention!

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