Information

Many people do not know that they create health damaging problems by residential burning – even if they have an eco-labelled stove operating under optimal conditions. Information about pollution from residential burning is the way to cleaner air since most people do not want to pollute and will stop burning when informed about their pollution.

Links

Further information on the Clean Heat project page: www.clean-heat.eu

Project partners: Deutsche Umwelthilfe: www.duh.de Ecological Council: www.ecocouncil.dk

European umbrella organization: European Environmental Bureau: www.eeb.org Copying, printing and any other distribution of this folder is desirable and can be done without any

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Danish Ecological Council and Deutsche Umwelthilfe work to reduce health and climate damaging air pollution from residential burning in EU. Our project Clean Heat is funded by the LIFE program of the EU and by the American climate foundation CWF (Climate Works Foundation).





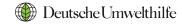


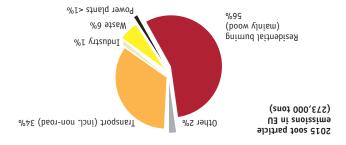
Residential burning of wood, coal, lignite, coke and waste is one of the most health damaging pollution sources in the EU

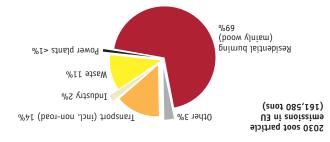
Pollution from residential burning in the EU:

- Causes 60,000 premature deaths and 60 million sick days every year
- Emits 150 times more soot particles than all power plants
- Can pollute your indoor air to health damaging levels









Reference: GAINS model, IIASA

Action needed

emission in the EU in 2030. will increase to almost 70% of the total soot particles from residential burning If nothing is done the emission of toxic

There are plenty of eco-friendly Healthier alternatives

contributes to global warming. flames. However, conventional gas still the cosy atmosphere connected to the no particles and allow people to enjoy gas or electricity as fuel emit almost 90%. Artificial "wood" stoves with emission can be reduced by more than in the country side. Thereby particle heat pumps or wood pellet boilers district heating and gas in cities, burning: Better insulation, new windows, alternatives to traditional residential

Health damage

increased morbidity. Costs we all pay through taxes and burning poses huge costs on society. related to air pollution. Residential morbidity and premature mortality local burning is the main cause of residential areas pollution from every year in the EU. In many causes 60,000 premature deaths ture death. Residential burning diseases, cancer and thereby premadiseases, thrombus, serious airway pollution increases the risk of heart It is well known that particle

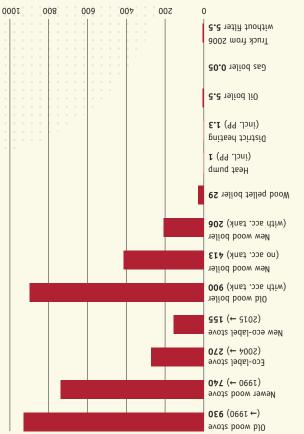
Climate damage

tial wood burning is "good" for Some people believe that residen-

fireplace provides the An electrical ing by healthier alternatives. replace traditional residential burnwarming after CO₃. It is better to important factors that cause global particles, which are one of the most boilers emits large quantities of soot burned as logs in small stoves and the climate. That is wrong. Wood



(Danish emission factors; g particles pr. GJ energy) Particle emissions (PM_{2.5}) from heat sources



and heat pumps includes the emission from power plants (PP). without accumulation tank (acc. tank). The emission from district heating emission from an older truck. For boilers are shown emissions with and Particle emission from different heat sources. For comparison is shown the

old truck a 10 year 25 times more than etulloq ot bewolls si eco-labelled stove ne tedt lesigol mees fon seem II

are very unpleasant related health effects ent the sase of the created by the flames The cosy atmosphere

Toxic pollutants

emission in the EU. than half of the total soot particle burning (mainly wood) causes more related to air pollution. Residential of morbidity and premature mortality pounds. Particles are the main cause compounds and volatile organic comparticles, soot particles, dioxins, tar of many toxic air pollutants: Fine and boilers is a dominating source Residential burning in small stoves

Particle pollution

pollution into your living room. stoves can directly leak damaging air areas to health damaging levels and pollutes ambient air in residential pollution. Residential burning often stoves but still cause significant air eco-label stoves pollute less than old filter (per energy unit). Hence, new year old truck without particulate 25 times as many particles as a 10 optimal operation emits more than a brand new eco-label stove under more than other heat sources. Even Residential burning pollutes much

smell smoke in your neighborhood. the environmental authorities if you rush hour. Use your nose and report to as the most polluted streets during can thereby reach same pollution levels levels. Air pollution in residential areas more than 50 times increased pollution Whereas a heavy smell can indicate than places without smell in the area. indicates 5-10 times more air pollution burning. Even a weak smell typically smoke and air pollution from wood connection between the smell of document that there is a clear particles in 15 residential areas Detailed measurements of ultrafine Use your nose