

# Clean Air Regions Initiative (CARI) Air Quality Planning Guidance Session V District Heating and Air Quality February 2022

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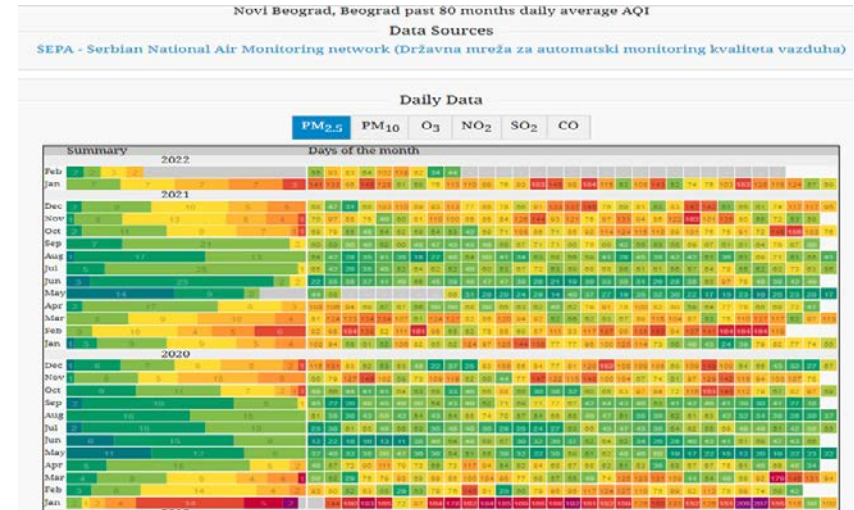
# Individual heating as a main source of PM 2.5

*“..the residential sector is the largest source of exposure to harmful PM2.5 associated with the burning of solid fuels in homes..“*

([World Bank, Report – AQM in Bosnia and Herzegovina](#), October 2019)

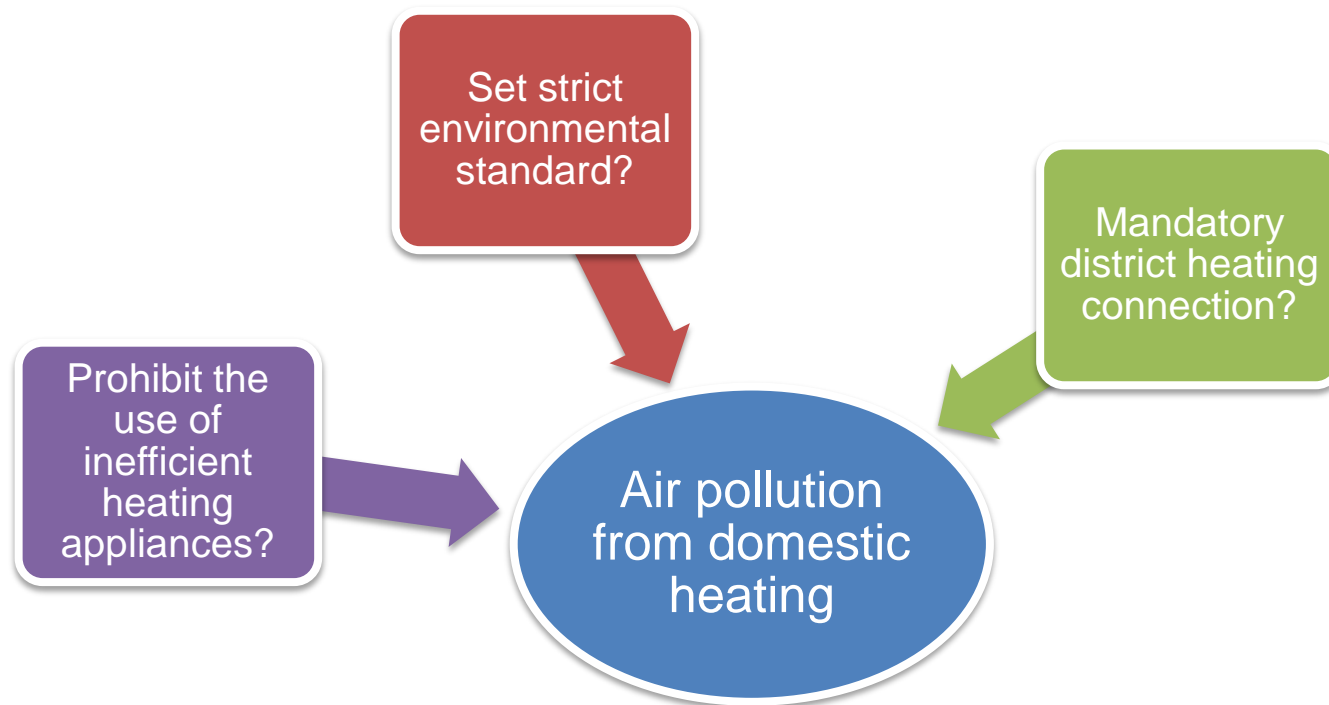
*"In 2005, households contributed more than 45% to total PM2.5 emissions in the EU-28..."*

([Measures to address air pollution from small combustion sources](#), February, 2018)



Source: <https://aqicn.org/>

# What are the best solutions?



# Local heating and cooling plans

## "Fit for 55" package:

### [Proposal for the recast of Directive 2012/27/EU on Energy Efficiency](#)

- Municipalities with a total population higher than 50.000 have to create local heating and cooling plans
- Financial support and technical assistance to be provided
- It should be based on the comprehensive assessment (Article 14 EED)

# Local heating and cooling plans - Process

1. **Committing** (setting a vision, establish a leadership and a team)
2. **Identification of current and potential solutions**
  - Identification of current demand and supply, as well as prediction of future demand
  - Identification of RE and waste heat supply potential
  - Zoning of the areas where potential measures could be applied
  - Cost-benefit analysis of different solutions and scenarios
3. **Choosing measures and agreeing on concrete goals**
4. **Implementing measures**
  - Creating an action plan – concrete responsibilities, tasks and deadlines
5. **Monitoring the implementation process**

## Local measures – Vienna

- Agreement on Decarbonisation by 2040
- Vienna Climate Council – experts advising politicians (cc 40 members)
- Climate protection areas: new buildings served by DH and one more highly efficient alternative; next step: existing buildings
- Vienna Building Code, definition of "highly efficient, alternative systems,,:
  - DH or micro-grid, uses at least 80 percent of RE or from HE CHPs
  - Decentralised energy supply systems RES-base (heat pumps, biomass heating systems, solar energy)
  - Use of waste heat

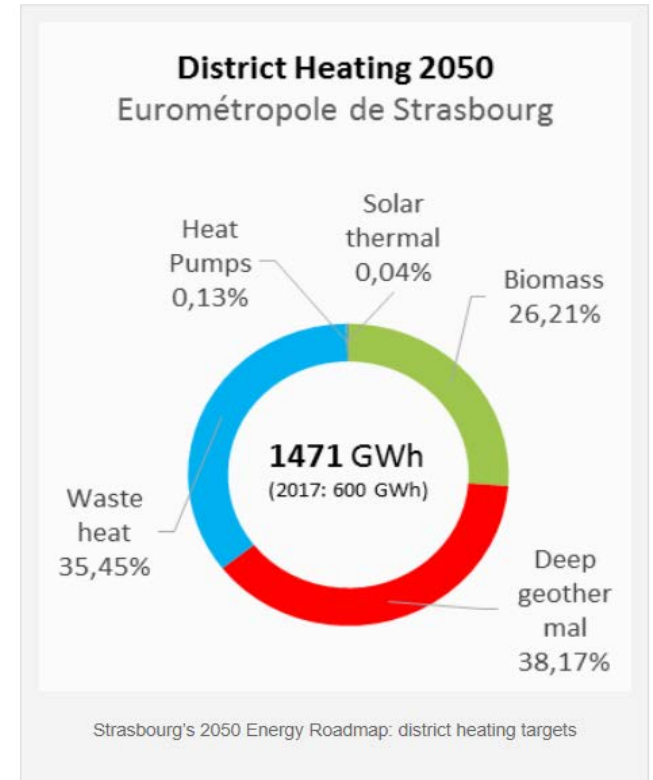


Source: [wien.gv.at](http://wien.gv.at)

## Local measures – Strasbourg

Commitment -100% of renewable energy by 2050

- 2050 Energy Roadmap: three pillars, one of which district heating!
  - renovation of existing networks
  - development of new ones to utilise RE
  - reviewing local regulation: as of 2022, all new buildings and buildings under renovation to prioritise public DH networks (individual solutions possible if proven to be more efficient)
  - Main RES source: deep geothermal and waste heat from a Germany steel factory located in near the border



Source: Celsiuscity.eu



# THANK YOU FOR YOUR ATTENTION

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