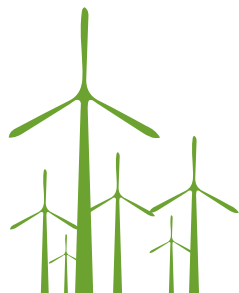




# Improving air quality in Kraków and Małopolska

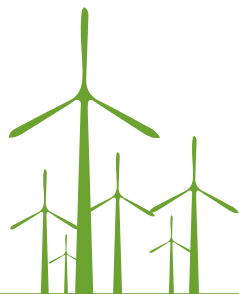
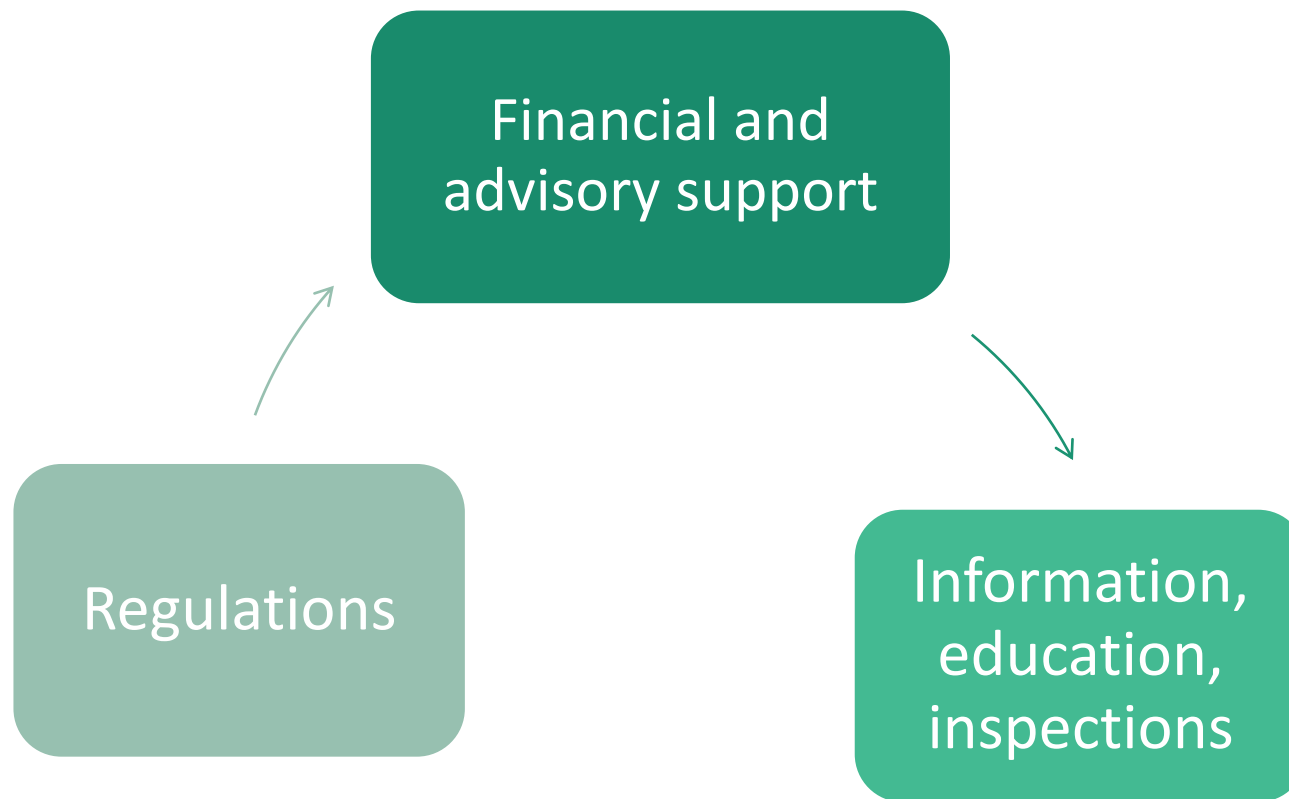
**Katarzyna Stadnik**  
Head of Air Protection Team

The Marshal's Office of the Małopolska Region





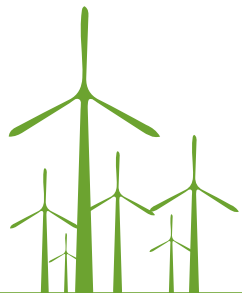
# What we do in Małopolska to restore clean air?





# Anti-smog resolution for Krakow

- ✓ Anti-smog resolution for Krakow was adopted in **January 2016**.
- ✓ It **bans the use of solid fuels** (coal and wood) in boilers and space heaters in Krakow.
- ✓ Only **gas fuels** or **light fuel oil** are permitted in fuel combustion installations.
- ✓ Effective **since September 2019**.





# Support for the residents in Krakow

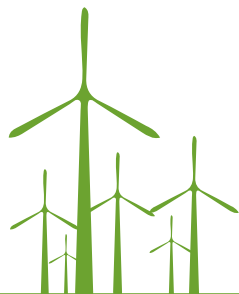
## SUBSIDIES

For boilers and stoves replacement

- ✓ **Low Emission Reduction Program for the City of Krakow** - subsidies for the replacement of solid fuels heating devices for ecological heating

For heating costs

- ✓ **Local Protective Program** for people whose premises heating costs have increased due to a permanent change from a solid fuel-based heating system the eco-friendly systems

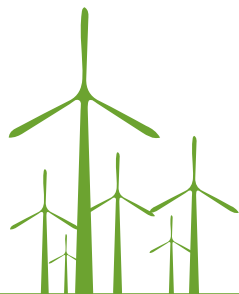
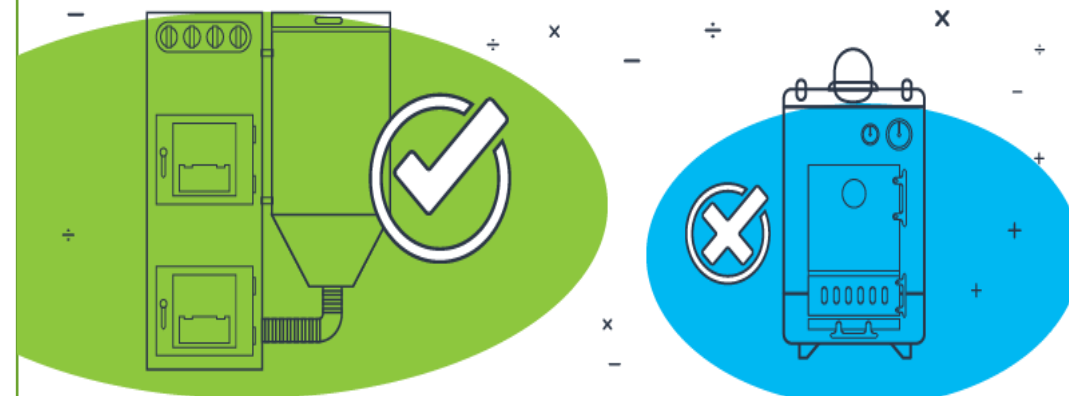




# Anti-smog resolution for Malopolska

- ✓ Anti-smog resolution for Malopolska was adopted in **January 2017**. It came into force in **July 2017**.
- ✓ Allows to install new solid fuel boilers or space heaters only when they comply with **ecodesign emission standards**.
- ✓ Bans the use of **the worst quality coal or wood** with moisture content above 20%.

All existing boilers which do not comply with **class 3** (EN 303-5:2012) have to be replaced **until the end of April 2024** and boilers **class 3 and class 4 until the end of 2026**.




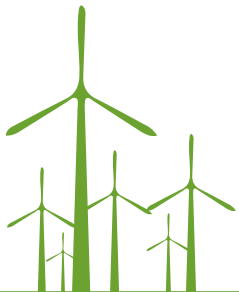


# Anti-smog resolutions in Poland

- ✓ Malopolska – **the first region** to implement anti-smog resolution.
- ✓ Currently **14 regions** in Poland adopted anti-smog resolutions: Malopolskie, Slaskie, Dolnoslaskie, Mazowieckie, Lodzkie, Wielkopolskie, Opolskie, Podkarpackie, Lubuskie, Pomorskie, Zachodniopomorskie, Swietokrzyskie, Kujawsko-Pomorskie, Lubelskie
- ✓ The legal basis for the introduced anti-smog resolutions is article 96 of the Environmental Protection Law.



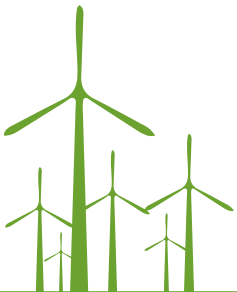
 *Adopted anti-smog resolutions*





# Air Quality Plan for the Malopolska Region

- ✓ **Air Quality Plan (AQP)** came into force on the 27<sup>th</sup> of October 2020
- ✓ The obligation to introduce the AQP comes from **European regulations (e.g. CAFE Directive)**
- ✓ This local law document implements repair measures to improve air quality in Małopolska, in the areas of:
  - Regulation of **solid fuels**
  - Reduction of **transport** emissions
  - Reduction of **industrial** emissions
- ✓ For effective implementation of AQP it was necessary to **reduce the number of solid fuel boilers**. For this reason, there was a need to adopt anti-smog resolutions





# The most important measures of the *Air Quality Plan*

## Tasks of the municipality:



**Eco-manager** in each municipality



**The Clean Air Programme** information points in every municipality



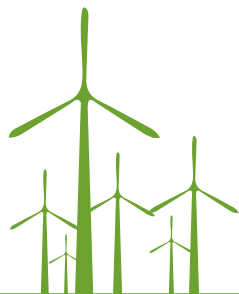
Preferences for **renewable energy sources** in subsidy programmes



No public subsidies in Malopolska for **coal fired boilers** from 2021. Public subsidies for **biomass boilers** restricted to the boilers with a low PM emission factor from 2023



**Inventory** of all heating sources







# The most important measures of the Air Quality Plan

## Tasks of the municipality:



Local **information campaigns** in municipalities at least twice a year



**Quick responses** (inspections) to the reported infringements (such as waste incineration)



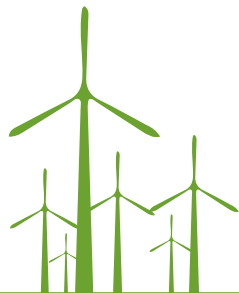
**Ban on using fireplaces** (if it's not the only heat source) on days when PM10 daily limit values are exceeded



An analysis of the problem of **energy poverty** and support for residents



Information on air quality **on the official website**





# Support of the residents

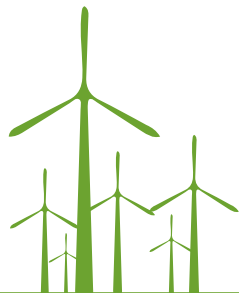
Nationwide programs  
with income-dependent  
subsidies  
*(Clean Air Program)*

Programs with up to  
100% subsidy  
*(Stop Smog)*

Protective programs for  
the poorest

Local programs operated  
by municipalities

Regional EU funds  
*(Regional Operational  
Programmes)*





# LIFE Integrated Project - *Małopolska in a healthy atmosphere*

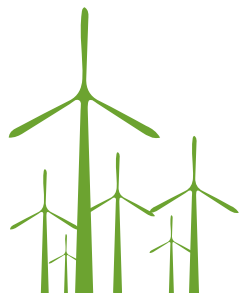
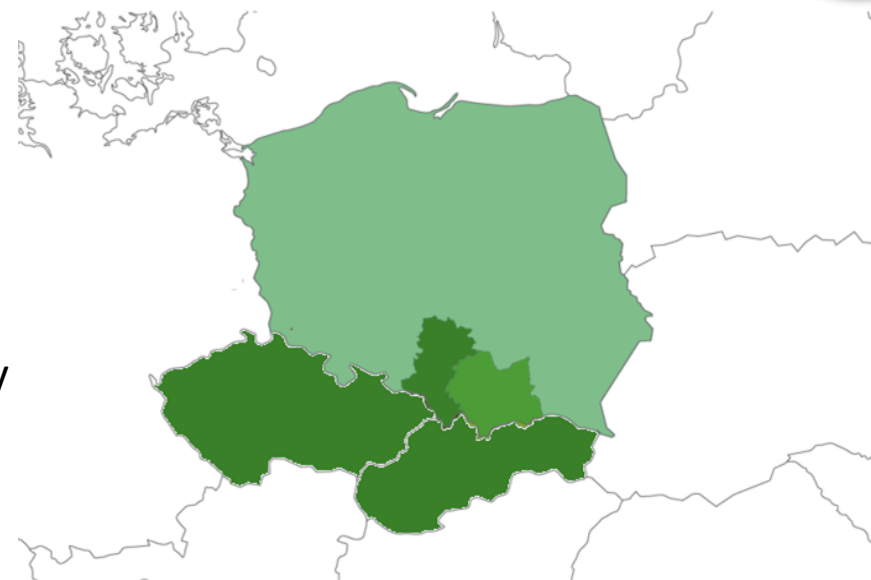


✓ The main objective is to accelerate the implementation of “**Air Quality Plan for the Małopolska Region**” and to improve air quality.

✓ **69 partners:**

- Małopolska and Silesian Region
- 62 municipalities including Krakow
- Association Krakow Smog Alert,
- KAPE National Energy Conservation Agency
- Ministry of the Environment of the Czech Republic
- Slovak Hydrometeorological Institute,
- VITO

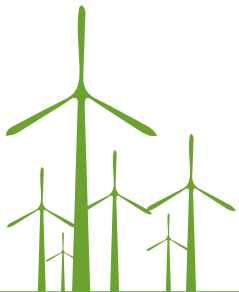
✓ **Duration: Oct 2015 – Dec 2025**





# Activities under LIFE IP MALOPOLSKA

- ✓ Supporting the implementation of **Air Quality Plan**
- ✓ Support for the implementation of a **ban on the use of solid fuels** for heating in Krakow
- ✓ The network of **Eco-managers**
- ✓ **Excellence Center**
- ✓ **International modeling of air pollution** in the Malopolska Region, Slovakia and the Czech Republic
- ✓ Regional media **campaign to promote clean air**

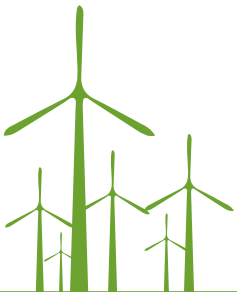




# Eco-managers

67 Eco-managers in 62 municipalities

- ✓ Acceleration of the implementation of „Air Quality Plan”.
- ✓ The Clean Air Programme information points in 180 municipalities in Malopolska - aimed to replace old heating sources. **91 000** grant applications processed.
- ✓ Organization of over **9000** events, meetings and workshops with a total of **750 000** participants.
- ✓ More than **3600** lectures and educational contests in schools involving **180 000** children.

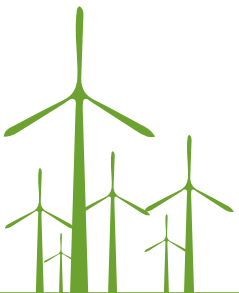




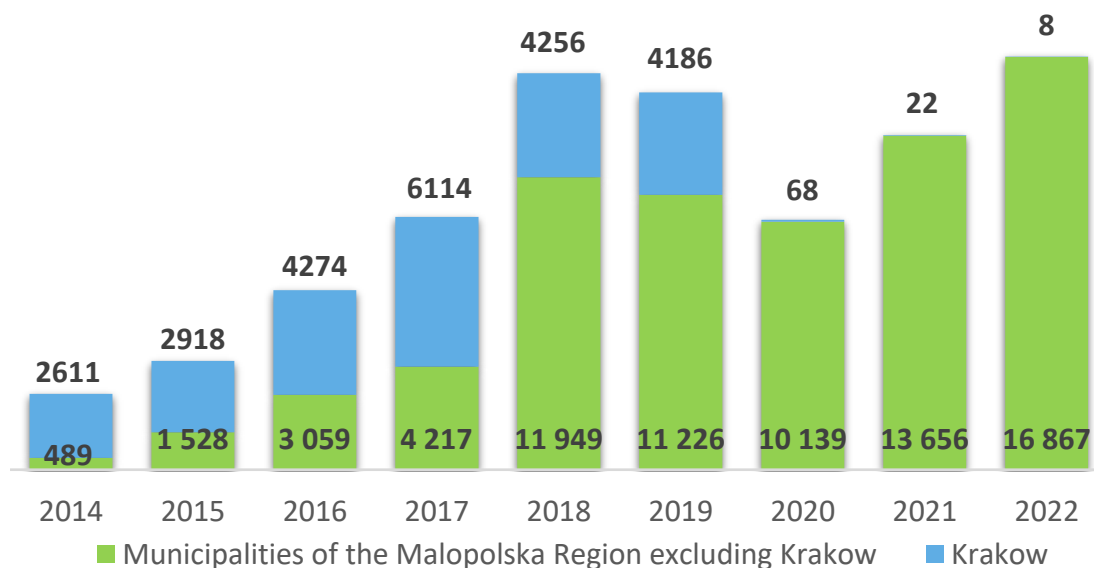
# Eco-managers

67 Eco-managers in 62 municipalities

- ✓ Help and advice for almost **1 500 000** residents (in the office, site visits).
- ✓ Thermal imaging surveys for more than **8100** private and public buildings.
- ✓ Over **33000** controls on waste incineration and on the compliance with the requirements of anti-smog resolutions.
- ✓ Local education and information campaigns to promote clean air with more than **2 700 000** educational materials distributed.



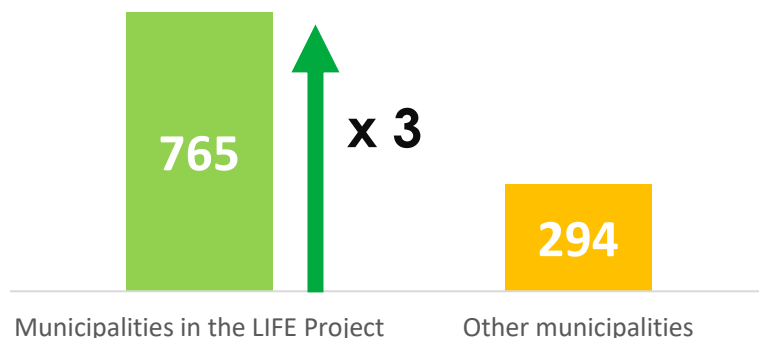
# Effects of air protection activities in Małopolska



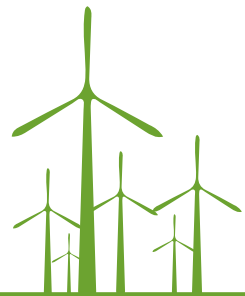
Since the implementation of the anti-smog resolution for Malopolska **65 000** inefficient solid fuel boilers have been replaced (between 2017-2021).

During the 6 years of the LIFE project, **4 times more** boilers were replaced in Malopolska than in the previous 7 years.

Average number of replaced boilers per municipality in Malopolska (2017-2022)



The average number of replaced boilers in LIFE project partner municipalities with ecomanagers is **almost 3 times higher** than for other municipalities.





# Thank You!

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Marshal Office of the Małopolska Region  
Department of the Environment



[powietrze.malopolska.pl/en](http://powietrze.malopolska.pl/en)



[powietrze@umwm.malopolska.pl](mailto:powietrze@umwm.malopolska.pl)

