

Promotion of low emission boilers and stoves

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Legislative framework

Environmental Protection Act, Article 96:

- Regional Assembly may introduce **restrictions or prohibitions on the operation of installations** in which fuels are burned in order to prevent a negative impact on human health or the environment.
- The resolution specifies for the designated area:
 - **types or quality of fuels** allowed for use or
 - technical parameters or technical solutions or **emission parameters of installations** in which fuels are burned.

Anti-smog resolution for Krakow

- Anti-smog resolution for Krakow was adopted in **January 2016**.
- From **1 July 2017** in Krakow it's forbidden to use wet wood and poor quality coal.
- From **1 September 2019** in Krakow will be effective **total ban on using solid fuels** (coal and wood) in boilers and space heaters.



Anti-smog resolution for Malopolska

- Adopted in January 2017. Effective from **1 July 2017**.
- Ban on using **new solid fuel boilers or space heaters** (e.g. fireplaces) which do not comply with **ecodesign emission standards**.
- Ban on burning **coal sludge** or wood with moisture content above 20%.
- New boilers have to be equipped with **automatic fuel feeding**, the use of an emergency grate is prohibited.



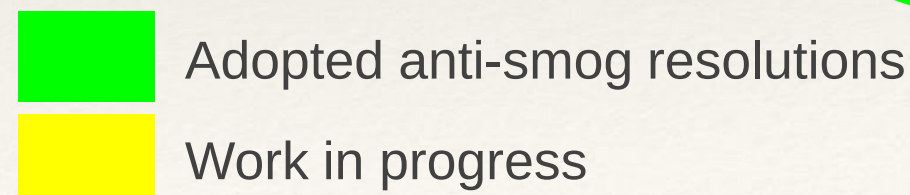
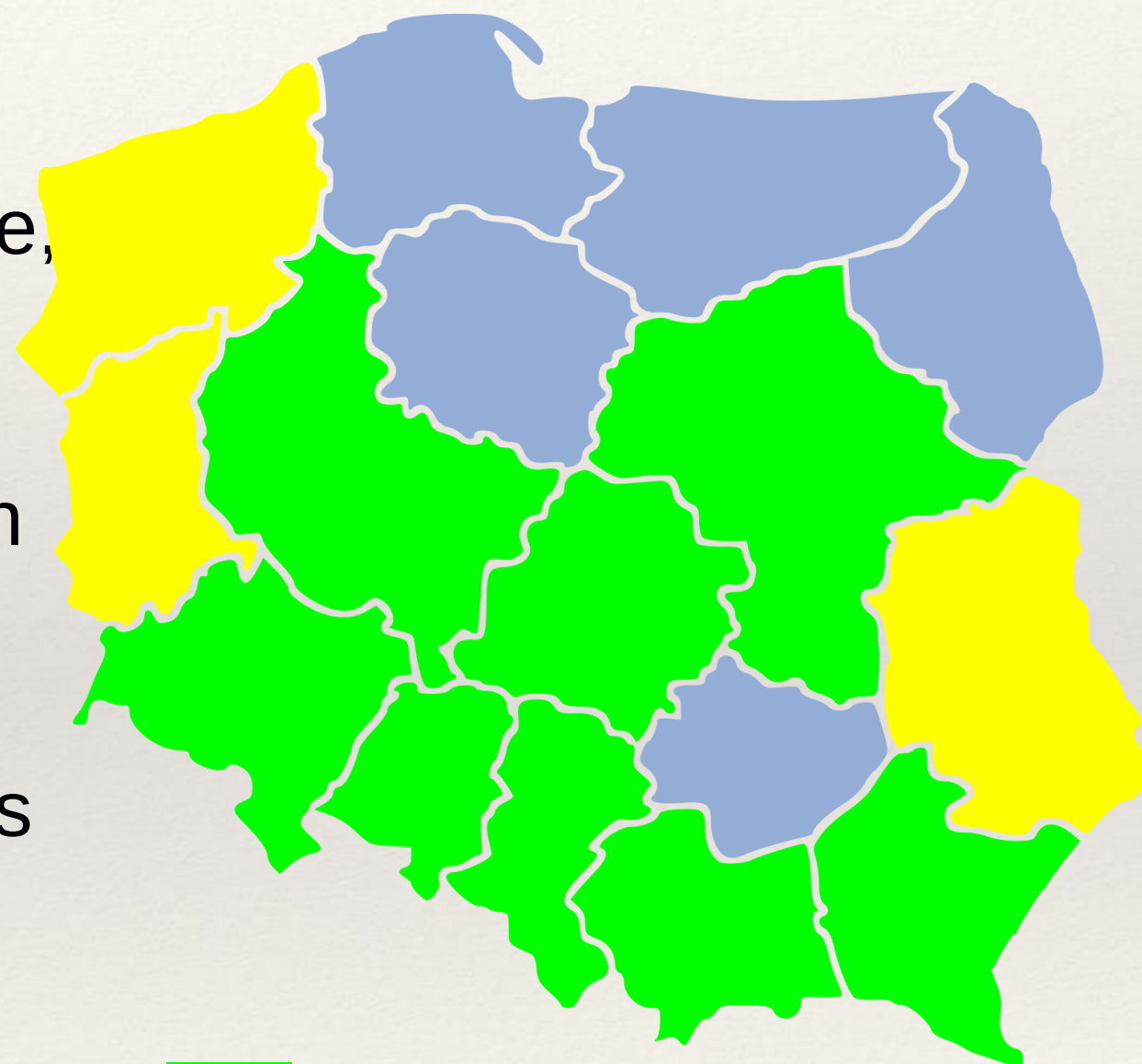
Anti-smog resolution for Malopolska

- All **existing boilers** in Malopolska which do not comply with class 3 (EN 303-5:2012) **have to be replaced** until **31 December 2022** and boilers class 3 and class 4 until 31 December 2026.
- **Space heaters** with thermal efficiency below 80% have to be **replaced until 31 December 2022 or equipped** in electro-filter.



Anti-smog resolutions in Poland

- Currently **8 regions in Poland** adopted anti-smog resolutions: Małopolskie, Śląskie, Dolnośląskie, Mazowieckie, Łódzkie, Wielkopolskie, Opolskie, Podkarpackie.
- **Three other regions** are working on their own resolutions.
- There is still lack of quality standards for coal at the national level.



Anti-smog resolutions in Poland

Region	Emission standard for boilers	Emission standard for space heaters	Requirements for coal and wood used	Effective for new / existing devices
Malopolskie *	Ecodesign	Ecodesign	Y	2017 / 2023 – 2026
Slaskie	Class 5	Ecodesign	Y	2017 / 2022 – 2028
Opolskie	None	None	Y	-
Mazowieckie	Ecodesign	Ecodesign	Y	2018 / 2023 – 2028
Łódzkie	Class 5	Ecodesign	Y	2018 / 2022 – 2027
Dolnoslaskie **	Ecodesign	Ecodesign	Y	2018 / 2024 – 2028
Wielkopolskie	Ecodesign	Ecodesign	Y	2018 / 2024 – 2028
Podkarpackie	Class 5 (2019) Ecodesign (2020)	Ecodesign	Y	2018 / 2022 - 2028

* Ban on using solid fuels in Krakow from 01/09/2019

** Ban on using coal in buildings which can be connected to a heating or gas network in Wroclaw and 11 health resorts from 01/01/2028

National standards for solid fuel boilers

- Solid fuel boilers **placed on the market** have to comply with **emission class 5** according to PN-EN 303-5:2012:
 - As of **October 2017** effective for newly produced devices,
 - As of **July 2018** effective for all devices.
- The use of an emergency grate in boiler construction is prohibited.

Polish standards (from 01/10/2017)	Emission at nominal heat output [mg/m ³] (according EN 303-5:2012)		
	CO	OGC	PM
Manual feed	700	30	60
Automatic feed	500	20	40

National standards for solid fuel boilers

- The national regulation **does not apply to boilers**:
 - intended solely for the **preparation of hot water**,
 - intended for burning **non-woody biomass**.
- The amendment of the regulation, which will eliminate these exceptions is currently being prepared.
- Additional provisions are also being prepared to facilitate the enforcement of these requirements (increasing the competence of trade inspection).

List of ecodesign solid fuel boilers and space heaters

- Marshal Office of the Malopolska Region maintains on the website a **list of solid fuel boilers and space heaters** which:
 - meet the **ecodesign emission standards**,
 - are compliant with the requirements of the **anti-smog resolution** for Małopolska
 - meet the principles of **co-financing programs**.
- Entry to the list is free but requires submission of **full report from test conducted in an accredited laboratory**.
- Each application is **verified by experts** from accredited laboratories and scientific institutes.

List of ecodesign solid fuel boilers and space heaters

- The list currently includes **60 coal boilers**, **81 biomass boilers** and **27 space heaters**.

Węgiel kamienny	DREW-MET EKO-PRIM KOMFORT ED https://kotlydrewmet.pl		Kocioł	5kW, 18kW, 23kW, 27kW	 	Research Instruction
Węgiel kamienny: wartość opałowa >28 MJ/kg, zawartość wilgoci ≤11%, zawartość części lotnych 15%-30%, zawartość popiołu 2-7%;						
Pelety	HEIZTECHNIK RED DASPELL GL http://www.heiztechnik.pl/		Kocioł	12kW, 20kW, 37kW, 60kW	  	Proposal Research Instruction
Pelety: wartość opałowa >17 MJ/kg; zawartość popiołu ≤0,5%; zawartość wilgoci ≤12%						
Drewno	UNIROL DRAGON 2B http://www.unico-kominki.com		Miejscowy ogrzewacz pomieszczeń	1kW	  	Proposal Research Instruction
Drewno: zawartość wilgoci <20%						

Thank you!



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