

CEWEP Waste-to-Energy Congress 2025

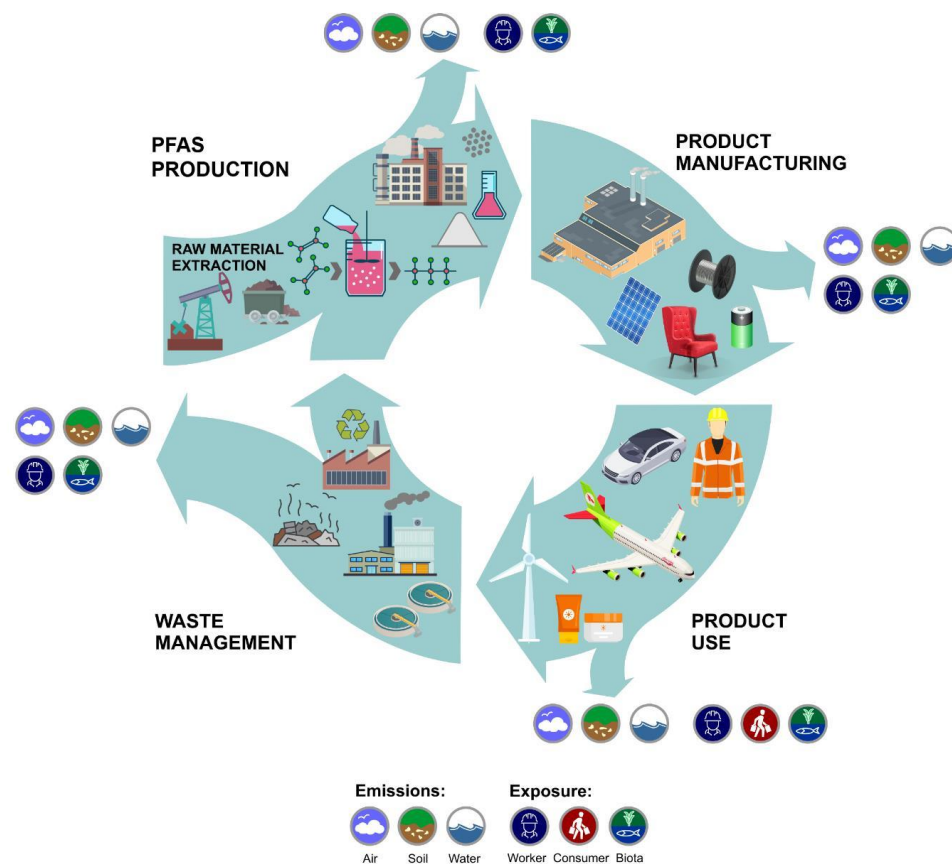
6th June 2025, Gdańsk

Introduction PFAS Seminar

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PFAS pollution

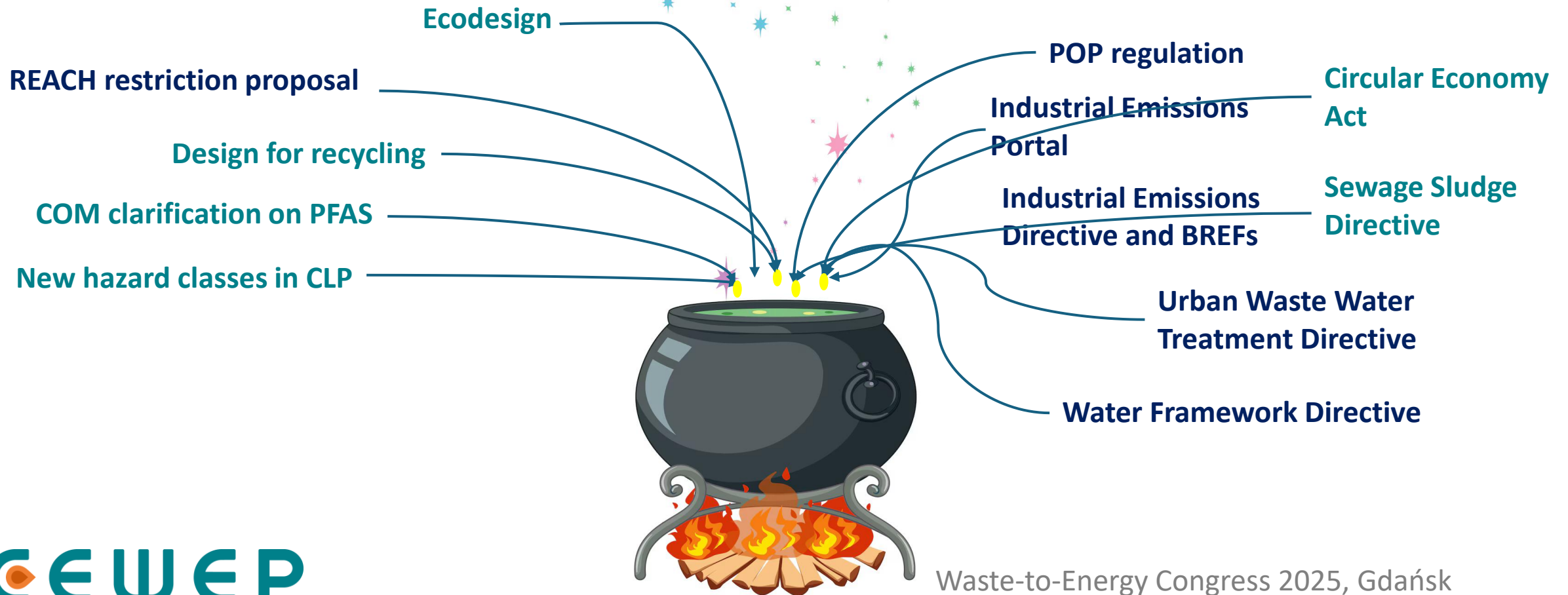


**Contamination of
environmental media**

EU actions

to **prevent** pollution

to **control and minimise** pollution



POP Regulation

Stipulation for waste streams exceeding certain levels of POPs, above which destruction or irreversible transformation of the POPs must be ensured:

| POP | POP level (mg/kg) |
|--------------------------------|-------------------|
| PFOS and derivatives | 50 |
| PFOA and its salts | 1 |
| Sum of PFOA-related compounds | 40 |
| PFHxS and its salts | 1 |
| Sum of PFHxS-related compounds | 40 |



POP Regulation

In November 2022, the Annex IV and V (concentration limits) of POP regulation have been amended to include new LPCL

In addition, the provision below was added:

*The Commission shall assess whether it would be appropriate to amend Directive 2008/98/EC or Decision 2000/532/EC, or both, to recognise that waste containing any persistent organic pollutants exceeding the concentration limits specified in Annex IV to Regulation (EU) 2019/1021 **is to be classified as hazardous**, and, if appropriate, based on that assessment and not later than 36 months after entry into force of this Regulation, shall put forward a legislative proposal to amend Directive 2008/98/EC or a proposal to amend Decision 2000/532/EC, or both, accordingly.*



Issue for waste management



Industrial Emissions Portal Regulation

Emission data as from 2027

- A new list of substances and thresholds in Annex II (adding and removing depending on their relevance) will be published through Commission delegated act no later than 31 December 2025.

The additional substances currently recommended for inclusion are:

Phthalates and bisphenols,

PM2.5,

PFAS (Total) and/or additional PFAS subgroups,

Polychlorinated naphthalenes and HBCDD,

Antimony, cobalt, manganese, selenium, thallium, and vanadium.

- The IEPR is closely linked to the revised **Industrial Emissions Directive**, both in terms of scope and reporting requirements. The inclusion of a pollutant in Annex II of IEPR is not only relevant for reporting purposes and mapping of the sources of pollution in the EU, but it is also a **potential trigger for setting an Emission Limit Value in IED permits.**



Industrial Emissions Directive & BREFs

The IED has another tool to regulate emissions:

- **BREFs** = sectoral documents that describe Best Available Techniques and their associated emission levels, including PFAS emissions
- Recent BREFs require monitoring of PFAS horizontally
- It is expected that PFAS will be included in the newly started Landfill BREF



Revised Drinking Water Directive

limit of 0.5 µg/L for PFAS_{total} and 0.1 µg/L for sum of PFAS₂₀

- COM published [technical guidelines](#) for monitoring methods for PFAS_{total} and sum of PFAS₂₀
- Member States must apply one or both parameters (compliance by Jan 2026)

Water Framework Directive

COM proposal amending the Water Framework Directive, the Environmental Quality Standards Directive and the Groundwater Directive (to check)

- Adding **24 PFAS** to the list of priority substances in surface water and to the list of pollutants in groundwater
- Threshold of 4.4 ng/L in surface and groundwater and of 0.077 µg/L wet weight in biota – expressed as **PFOA equivalents** using the **relative potency factor** approach for sum of 24 PFAS

Urban Wastewater Treatment Directive

Monitoring of PFAS in urban wastewater and sludge

- For all agglomerations of $\geq 10\,000$ p.e. monitoring of '**PFAS Total**' and '**Sum of PFAS**'
- COM is empowered to adopt **implementing acts** to establish a harmonised methodology for measuring 'PFAS Total' and 'Sum of PFAS' in urban wastewater by July 2027
- **Extended Producer Responsibility Schemes** for micropollutants (pharmaceuticals & cosmetics) to cover monitoring, investment and operational costs

Revision Sewage Sludge Directive?

EU standardisation process for PFAS monitoring

“At the CEN/TC 264 plenary meeting 2024 it was discussed that establishing a working group “PFAS” would be a good way to discuss, harmonize and coordinate the national activities on sampling and analyses covering stack emissions and ambient air. If a standardization request arrives, feedback and a response should be ready. Meeting in July 2025. “

