

European Biogas Association

Biogas safety across Europe

Agata Prządka

Cross-ETP event:
Common challenges to safety, security and
risk management
Brussels, 21.04.2015

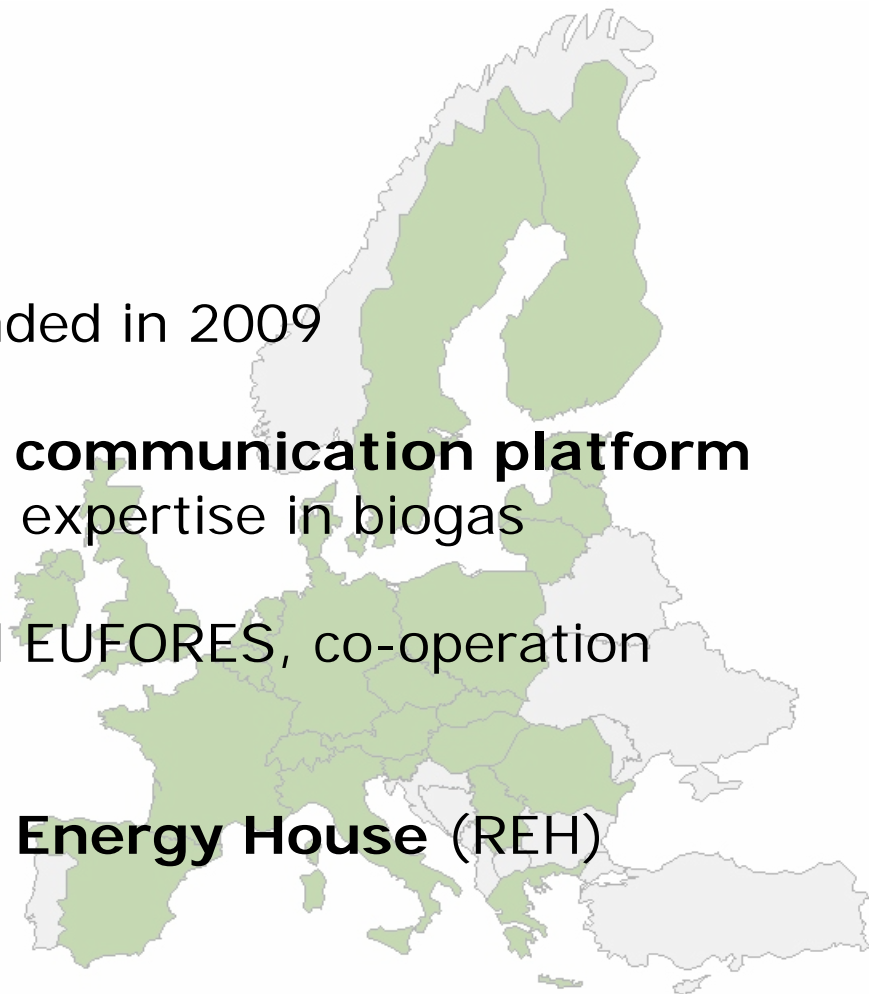


EBA

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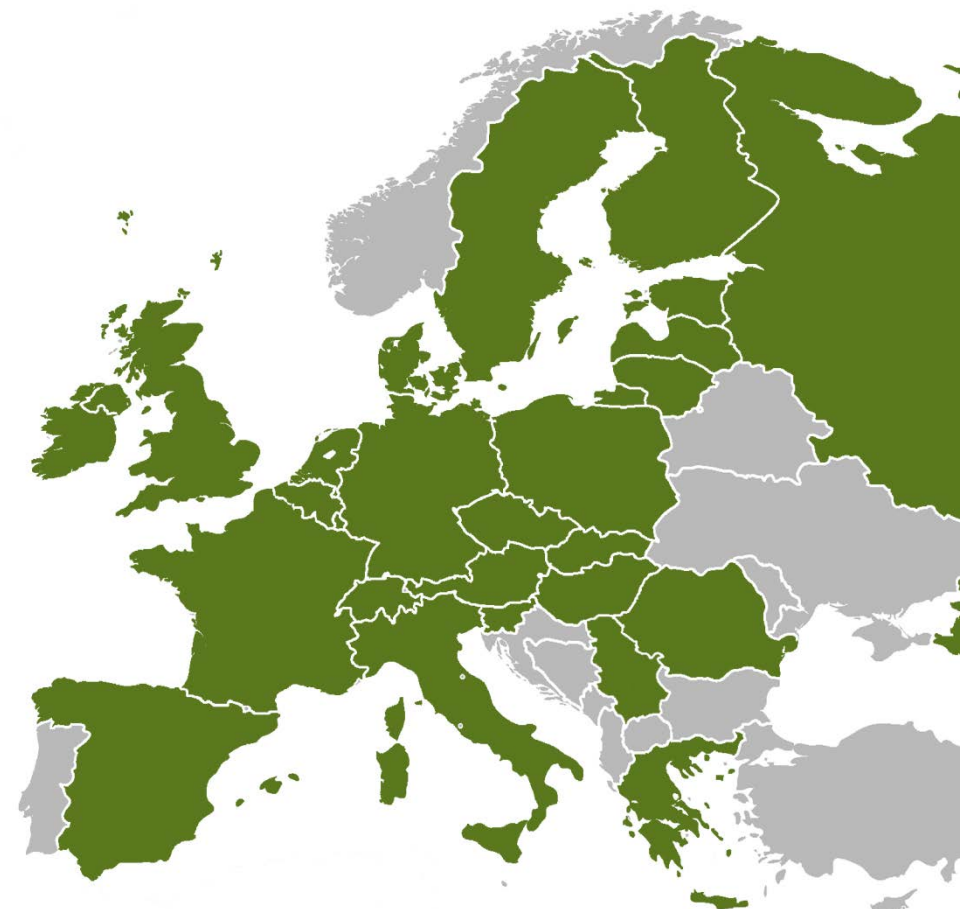
What is EBA?

- ❖ **Non-profit organisation** founded in 2009
- ❖ Well-established **network and communication platform** for exchanging information and expertise in biogas
- ❖ **Member of** AEBIOM, EREF and EUFORES, co-operation with NGVA and ECN
- ❖ Based in Brussels, **Renewable Energy House (REH)**



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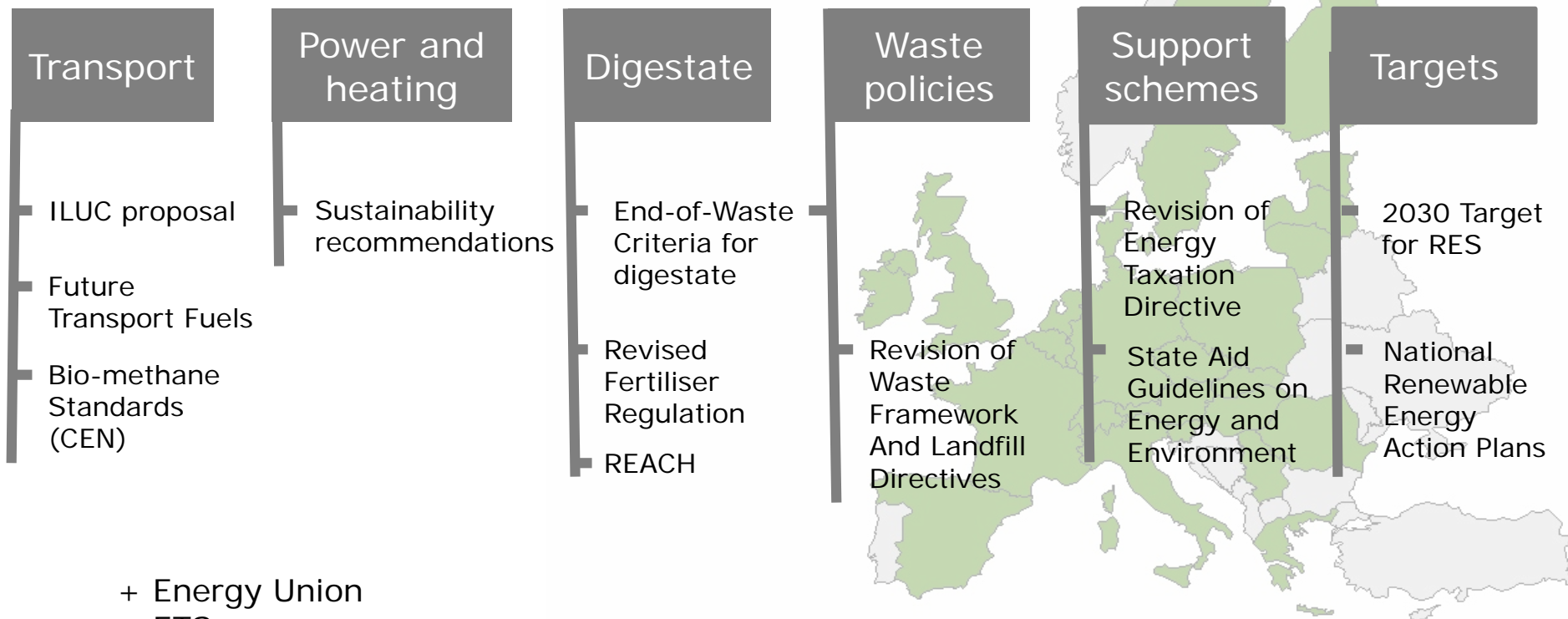
26 countries – 34 National Organisations
40 companies



www.european-biogas.eu



Biogas related policies on the EU level



- + Energy Union
- + ETS
- + Emissions in medium combustion plants
- + Renewable heating & cooling strategy
- + European Energy Security Strategy
- + CEN/TC group on biogas definition
- + many more to come...

Hazards at biogas plant

- **Biological risks:** Infections or toxic effects (bacteria, viruses, fungus)
- **Electrical risks:** Improper use
- **Mechanical risks:** moving parts of machines, dangerous surfaces
- **Crashes:** Pits
- **Fire risk:** hot surfaces
- **Gas risk:** Explosion, suffocation, poisoning
- **Others:** heat, noise



**Biogas safety
requirements and
regulations
are in hands of the
national legislators**

Plant safety in Germany – legal basis



DE

- Geräte- und Produktsicherheitsgesetz
- Maschinenverordnung
- Arbeitsschutzgesetz
- Arbeitssicherheitsgesetz und Arbeitnehmerschutz
- Betriebssicherheitsverordnung
- Arbeitsmittel + Überwachungsbedürftige Anlagen
- Biostoffverordnung
- Baustellenverordnung
- Vorschriften der landw. Berufsgenossenschaften

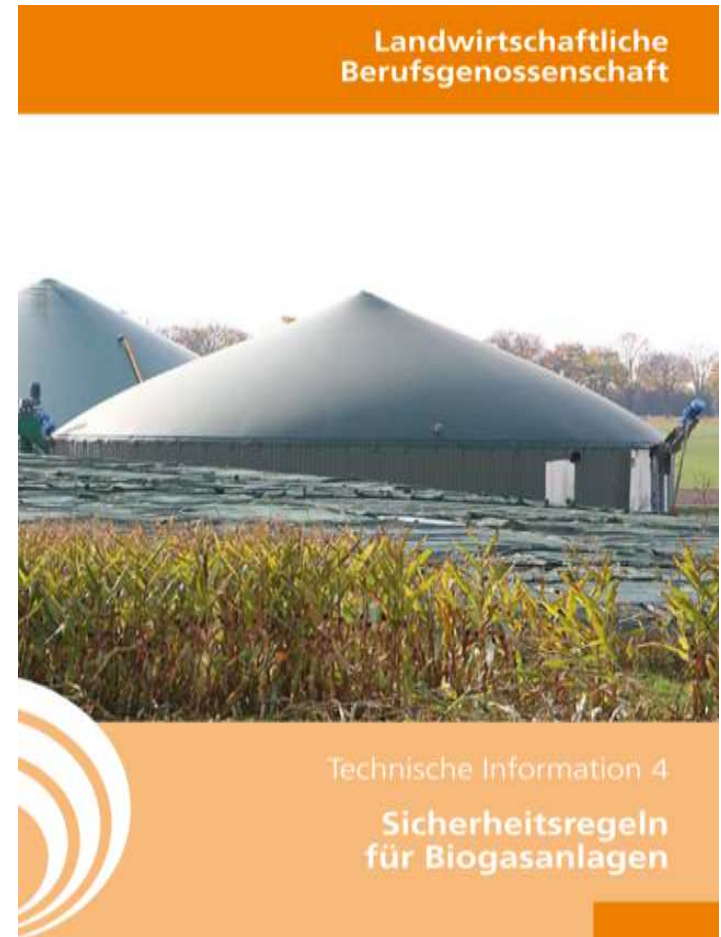
EN

- Equipment and product safety act
- Machines regulation
- Work safety act
- Protection of workers health and safety law
- Ordinance on industrial safety
- Working tools + Equipment requiring monitoring
- Biomaterial ordinance
- Site ordinance
- Regulations of agricultural associations

Plant safety in Germany - activities



- **Handbook** *Safety regulations for biogas plants* ("Technische Information 4", LSV 2008)
- German Biogas Association (FvB) organizes **trainings** together with German Technical and Scientific Association for Gas and Water (DVGW)
- **Summary document** on current knowledge of biogas safety and technical basics in preparation by DWA, DVGW und FVB



Plant safety in the UK – legal basis



No specific biogas regulations, but AD operators need to be aware of the following regulations:

Hierarchy of Importance

1. UK Law – Health and Safety at Work act
2. UK Government Department regulations
3. EU Law – see “EN” on a standard etc.
4. HSE Guidance – Approved Code of Practice - ACOP
5. British Standards
6. International Standards
7. Industry Codes of Practice
8. Industry guidance/other guidance

Plant safety in Hungary– legal basis



No specific biogas regulations except for fire protection

- All plants must have a fire alarm system and a fire fighting plan
- All plants must have a lightning protection system
- In all respects the regulations for natural gas are valid for biogas

Thank you

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