Content

- What is EBA?
- European biomethane production
- EU regulations towards biomethane
- Present status of biomethane market
What is EBA?

- Non-profit organisation founded in 2009
- **Sustainable biogas production and use in Europe**
- Well-established network and communication platform for exchanging information and expertise in biogas
- Member of AEBIOM, EREF and ESBF, cooperation with EREC and ECN
- Based in Renewable Energy House (REH)

**European Biogas Association**

25 countries – 32 National Organisations – 31 companies

www.european-biogas.eu
Biomethane in Europe

- More than 230 upgrading units and 166 000 m$^3$/h capacity
- 77% of purification units inject biomethane into gas grids
- About 50% of produced biomethane in Europe is used as a vehicle fuel (AT, CH, DE, FR, HU, IS, IT, NL, SE, UK)
- About 50% used as electricity and heat source (AT, CH, DE, FR, FI, LX, NL, NO, SE, UK)
EU regulations towards biomethane

- Sustainability of transport fuels
  - iLUC, „food or fuel” debate

- Sustainability of solid and gaseous biomass

- Targets for renewable energy in 2020 and beyond

- Standardization

- Clean Power for Transport Package

Sustainability of transport fuels

- **Commission’s proposal:**
  - Cap on crop-based biofuels counting towards the renewable energy targets
  - High GHG savings: higher sustainability criteria (50-60%) and iLUC factors
  - Promotion of advanced biofuels through multiple counting

- **European Parliament:** plenary vote on 10 September
  - 6% cap on conventional biofuels
  - iLUC factors to be incorporated in FQD post 2020
  - 2.5% target for advanced biofuels
  - No multiple counting for waste-based fuels

- **Council = Member States**
  - 7% cap on conventional biofuels
  - iLUC factors to be included in RED and FQD
  - 1% target for advanced biofuels
  - Double counting for waste-based fuels; 5-times counting for electrified road transport; 2.5 times for electrified rail
Sustainability criteria for solid and gaseous biomass

DG ENER’s draft proposal leaked in August 2013
- No ILUC reporting
- The sustainability criteria: 60% (existing installations are grandfathered)
- All biomethane injected into the grid (regardless of the end use) shall be subject to these criteria
- Biomass and biogas are divided into three categories:
  - primary biomass (e.g. forestry and agricultural residues),
  - secondary biomass (processing residues)
  - tertiary biomass (e.g. biowaste, biodegradable fraction of industrial waste, sewage sludge)

The proposal was put on ice due to the harsh opposition from other DGs and environmental NGOs

Targets for biomethane in 2020 - NREAPs

<table>
<thead>
<tr>
<th>Country</th>
<th>Biogas and etc. share in transport 2005-2020, ktoe</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2005 others</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>0</td>
</tr>
<tr>
<td>Czech Republic</td>
<td>0</td>
</tr>
<tr>
<td>Germany</td>
<td>177</td>
</tr>
<tr>
<td>Estonia</td>
<td>0</td>
</tr>
<tr>
<td>Ireland</td>
<td>0.5</td>
</tr>
<tr>
<td>Spain</td>
<td>0</td>
</tr>
<tr>
<td>France</td>
<td>0</td>
</tr>
<tr>
<td>Italy</td>
<td>0</td>
</tr>
<tr>
<td>Latvia</td>
<td>0</td>
</tr>
<tr>
<td>Hungary</td>
<td>0</td>
</tr>
<tr>
<td>Austria</td>
<td>8</td>
</tr>
<tr>
<td>Poland</td>
<td>0</td>
</tr>
<tr>
<td>Portugal</td>
<td>0</td>
</tr>
<tr>
<td>Slovak Republic</td>
<td>0</td>
</tr>
<tr>
<td>Sweden</td>
<td>13</td>
</tr>
</tbody>
</table>
Targets for RES and biomethane beyond 2020

Commission’s proposal:
White Paper end of January 2014, probable targets:
• Target for CO₂
• Skip target for energy efficiency
• Target for RES unsure

Under development:
Roadmap for developing the European biomethane production and trade in frames of GreenGasGrids project
• Goals for biomethane
• Action plan (biomethane registries, mass-balance, CNG/LNG infrastructure, LCA, research and development, etc.)

Clean Power for Transport Package

Commission’s proposal:
• Min. requirements on alternative fuels infrastructure build-up and common technical specifications, including refueling points for natural gas
• Biomethane is ‘included’ in natural gas

European Parliament & Council
• TRAN committee (EP) accepted report proposed by the Commission
• Council 1st reading in December 2013
• Plenary vote (EP) in April 2014
• Closed before elections in May 2014?
Standardization

- 29 different quality components
- Diverse number of characteristics among countries
- Different units for the same characteristic:
  
  E.g.: Vol-%, Mol-%, ppm
- 10 countries with biomethane standard for grid injection or vehicle (AT, BE, CZ, DE, FR, PL, ES, CH, SE, NL) stand for Feb 2012
- Injection but no standard yet (UK, FI, NO, LUX) stand for Feb 2012
- No standard: agreement between grid operator and supplier

CEN TC408 Standardization Working Group has a mandate to develop:

- European standard for a quality specification for biomethane to be used as a vehicle fuel
- European deliverables such as Technical Specifications or European Norms for quality specification of biomethane to be injected into gas grid (either H-gas or L-gas)

Present status of biomethane market

• Cross border biomethane trade - sporadic, bilateral, limited (DE>SE, DE>NL, DE>CH)
• No real European BioCH₄ market today
  - no marketplace
  - no demand-supply balancing
  - no pricing mechanisms
  - no free movement of the product
• Biomethane registries acting within national borders
  Exception: DE and NL negotiating to connect the registries
• November 2013 - Letter of Intent signed by 6 biomethane registries (AT, DK, FR, DE, CH, UK) to cooperate on various fields of biomethane transfer, trade and bilateral recognition

The Netherlands 2014
Egmond aan Zee

Call for posters!
www.BiogasConference.eu
Thank you

European Biogas Association
Agata Prządka
przadka@european-biogas.eu
Renewable Energy House
Rue d’Arlon 63-65
B - 1040 Brussels
+32 24.00.10.87
www.european-biogas.eu