

BIOMASTER

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Biomethane as an Alternative Source for Transport and Energy Renaissance

Contract number: IEE/10/351/SI2.591136

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Project Summary

- **17** partners, **4** sites: Norfolk County (UK), Skåne Region (SE), Małoposka Region (PL), Trentino (IT)
- **Uptake** of biomethane production, distribution and use in vehicles
- **“Waste-to-wheel”** partnership, with set-up of local networks
- Studies, analysis, training, seminars, conferences, dissemination, publications, events, meetings
- EC Contribution: EUR **1,853,391.00**

Background

- BIOMASTER to prove biomethane for transport as **operational** and **viable** option in spite of the existing regulatory and fiscal barriers
- Biomethane offering a **unique combination** of low-carbon, low-emissions, low-noise transport
- **Novelty** and **interest** lying with the ambition to overcome the impasse by bringing the key components of the biomethane chain into a joint initiative, stimulating **investments**, removing non-technological **barriers** and mobilising **actions** for biomethane uptake
- Commitment of a “**waste-to-wheel**” partnership along the biomethane chain, i.e., existing and potential stakeholders from the production, distribution and end user world
- Set-up of **networks** by involving additional local and national stakeholders (beyond the official partners)
- Addressing: i) potential for total **production** and **use**, ii) available **distribution** modalities (with special focus on biomethane **grid injection**), and iii) legal, organisational and financial **barriers**

Partnership

- **ISIS** – Institute of Studies for the integration of Systems, IT (coordinator)
- **NCS** - Norse Commercial Services Ltd, UK
- **NGG** - National Grid Gas plc, UK
- **NCC** - Norfolk County Council, UK
- **FEM** – Edmund Mach Foundation, IT
- **CRF** - FIAT Research Centre SCPA, IT
- **CRPA** – Research Centre on Animal Production, IT
- **SEA-SE** – Kommunförbundet Skåne, SE
- **LUENERG** – Krafringen produktion AB, SE
- **Regskane** - Region of Skåne, SE
- **AGH-UST**- AGH University of Science and Technology, PL
- **MSWM** – Municipal Services and Waste Management Limited Company of Cracow, PL
- **PGNiG** - PGNiG Energia S.A., PL
- **TTR** - Transport & Travel Research Ltd, UK
- **FGM-AMOR** - Austrian Mobility Research, AT
- **ACSM** – ACSM S.p.A., IT
- **Dolomiti** – Group Dolomiti Energia, IT

Objectives and main steps

- **Boost** the biomethane economy and identify **solutions** to the common barriers within the project sites in the view to implement practical **action plans**
- Contribute to strategic **energy security, renewable energy, environmental and harmonization targets** (at local, national and EU level)
- Conduct an initial **market assessment** to identify the current technical, economic and social barriers to the development of biomethane market
- Define a **common platform** as a basis for widespread market development of biomethane as a renewable transport fuel
- **Evaluate** environmental and economic **processes** and **impacts** to assess the cost-effectiveness of biomethane market in in terms of social, technical, environmental, economic and financial implications
- **Disseminate** the project findings to the main target groups and the key actors of the biomethane chain and potential multipliers

Expected results

- **4** detailed feedstock **assessments**, **action plans** for biogas production and upgrading, **strategies** for residual product management, **strategies** to boost biomethane use in vehicles
- Quantifiable progress towards a cumulative target of:
 - **12** new biomethane production plants in the partner regions
 - **4** biomethane grid injection points
 - **630** vehicles operating on biomethane
 - **54** new biomethane filling stations
- **4** regional networks established, one in each BIOMASTER region
- **16** additional regional networks, **4** in each BIOMASTER country
- **5** additional networks in **5** countries other than the partners' countries

Results so far ...

- **4 detailed feedstock assessments** in the **4 BIOMASTER sites**
- **4 regional networks** established, one in each BIOMASTER site
- **8 other regional networks** in each partner country (1 in Italy, 1 in UK, 4 in Sweden, 2 in Poland)
- **3 rural biogas plants, 1 new public filling station, 652 new CNG personal vehicles** (Skåne)
- **1 feasibility study** for a biogas plant (Trentino)
- **Communication products** (newsletters, factsheets, postcard, website, folder).

Contact Details

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