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Biomethane as an Alternative Source for Transport and Energy Renaissance

BIOMASTER

BIOMASTER intends to prove that biomethane for transport can be an operational and viable option in spite of the regulatory and fiscal barriers that hamper its replication. The 4 participating regions are ready to exploit the potential of biomethane production and use for transport to overcome the current impasse and bring the key components of the biomethane chain into a joint initiative, stimulating investments, removing non-technological barriers and mobilising action for uptake. The qualifying characters of BIOMASTER are the commitment of a "waste-to-wheel" partnership, the set-up of networks to involve local stakeholders, the intention to address the potential sources of biomethane production, the potential for total production and use, the available distribution modes, and the legal, organisational and financial barriers. A key ambition of the project is to focus on biomethane grid injection. The goal is to bridge the knowledge and operational gaps fragmenting the biomethane chain and to establish local alliances of stakeholders to foster open dialogue and create a mutual understating



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 target region
- 16 additional regional networks, 4 in each partners' country
- 5 additional networks in 5 countries other than the partners' countries

Lesson learned

- The initial steps of new markets' development (as for biomethane in several countries) can be better triggered through the intervention of public authorities: purchasing policies for cleaner vehicles in captive fleets and corresponding build-up of fueling facilities, as well as public incentives for biogas production and upgrading, can strongly contribute to achieve the critical mass needed to favor the launch of the market and to influence market prices and industry choices against: - limited number of vehicles models and their higher cost - producing biogas only for electricity.
- The role of the networks in the project's regions (and beyond them) is crucial in order to allow gathering the stakeholders to promote the biomethane economy and to favor its initial boosting. Accordingly, a dedicated event hosted in each target region is highly needed in order to successfully address the stakeholders (through initial direct contacts) and to start their

proper involvement in mutual exchange of information and future activities. On the other hand, set up and coordination of networks are very much demanding in terms of resources, especially in the non partner regions.

- In many cases the different stakeholders (waste treatment plants, biogas and upgrading companies, local authorities, transport agencies) are ready to implement concrete initiatives on biomethane economy; nevertheless in some countries the legal framework, together with the economic crisis, is strongly limiting those actions.

Partners and coordinator

Istituto di Studi per l'Integrazione dei Sistemi [1]	Italy
Austrian Mobility Research / Forschungsgesellschaft Mobilitaet Gemeinnützige GmbH [2]	Austria
CENTRO RICERCHE FIAT SocietÃ Consortile per Azioni [3]	Italy
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Transport & Travel Research Ltd [5]	United Kingdom
Norse Commercial Services Ltd [6]	United Kingdom
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Miejskie Przedsiębiorstwo Oczyszczania Spolka z o.o. w Krakowie [13]	Poland
PGNiG Energia Spółka Akcyjna [14]	Poland
ACSM S.P.A. [15]	Italy
DOLOMITI ENERGIA S.P.A. [16]	Italy
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Budget

Overall budget: 2.471.189,00 € (EU contribution: 75,00 %)

Key documents

- [Project Summary Slides November 2012](#) [18]
PDF 62.22 KB 
- [Short guide of biogas production in Małoposka](#) [19]
PDF 1.73 MB 
- [The Norfolk Farmer's Guide to Biomethane](#) [20]
PDF 518.32 KB 

In brief

Sector: Biofuels

Duration: 01/05/2011 to 30/04/2014

Contract number: IEE/10/351

Website: <http://www.biomaster-project.eu>

Tags:

biomethane
market

Media coverage

- [Il biometano al centro dello sviluppo delle rinnovabili in Italia](#) [21]
Agronotizie - 10/04/2014

Related projects

- [[GREENGASGRIDS](#) [22]] Boosting the European Market for Biogas Production, Upgrade and Feed-In...
- [[BIOGASHEAT](#) [23]] Development of sustainable heat markets for biogas plants in Europe
- [[BIOTEAM](#) [24]] Optimizing Pathways and Market Systems for Enhanced Competitiveness of...
- [[BIO-METHANE REGIONS](#) [25]] Promotion of Bio-Methane and its Market Development through Local and...
- [[BIOGASIN](#) [26]] Sustainable biogas market development in Central and Eastern Europe
- [[URBANBIOGAS](#) [27]] Urban Waste for Biomethane Grid Injection and Transport in Urban Areas

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- [21] <http://agronotizie.imaginenetwork.com/bio-energie-rinnovabili/2014/04/10/il-biometano-al-centro-dello-sviluppo-delle-rinnovabili-in-italia/37622>
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