


Feasibility or Case Study for gas supply expansion for Styria, Austria

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Intelligent Energy  Europe

MADEGASCAR 

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Partner name	StGW, GEA
Work Package	WP 4: Supply and distribution infrastructure for gas fuels
Country	Austria
Region	Styria
Are there existing filling stations and natural gas and/or biogas driven cars already in the region?	Yes
Status (F:Final, D:Draft)	F – 8 th June 2009

Disclaimer:

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Gas supplier

Company name: Steirische Gas-Wärme GmbH
 Public/private: private
 Address: Gaslaternenweg 4, 8041 Graz
 Tel: +43 316 9000-0
 Fax : +43 316 9000 - 28000
 Website: www.e-steiermark.com

Filling station construction company

Company name Bauer Kompressoren GmbH
 Public/private: private
 Address: Drygalski Allee 37; 81477 München
 Contact person: Manfred Schöffel
 Tel: +49 89 78049-0
 Fax: +49 89 78049-103
 E-mail: m.schoeffl@bauer-kompressoren.de
 Website: www.bauer-kompressoren.de

Owner of new filling station

Company name: Salzburg AG
 Public/private: private
 Address: Bayerhamerstraße 16, 5020 Salzburg
 Tel: +43 662 8884-0
 Fax: +43 662 8884-2761
 Website: www.salzburg-ag.at

Principal users of new filling station

Company name:
 Public/private:
 Address:
 Contact person:
 Tel:
 Fax:
 E-mail:
 Website:

Other relevant partners (please copy this section as many times as is required)

Company name: Agip Austria GmbH
 Public/private: privat
 Address: Millennium Tower, Handelskai 94-96, 1200 Wien
 Tel: +43 1 24070 - 0
 Fax +43 1 240 70 20958
 Website: www.agip.at

A2.3 Describe new/proposed filling station:

NEW GAS FILLING STATION

Name of filling station and address	Agip servicestation A-8430 Gralla, Gralla 60c
Type of location	urban
Type of filling	Within petrol/diesel filling station
Number of fast filling points	1
Number of slow filling points	0
Number and make of compressors	1, Bauer Kompressor
Storage pressure (bar)	Max. permitted storage preasure. 300 bar
Storage capacity (water litres)	1920 water litres
Ownership of station	Agip Austria
Method of financing station	Contracting
Main user of station	Private and business customers
Number of vehicle fills per week	30 - 40
Total weekly supply of gas to vehicles	1000 – 1300 m ³
Types of vehicles already using the filling station eg HGV, bus, van, taxi, car	Cars, taxi
What proportion of the gas is biomethane	0%
Name of gas supplier	Steirische Gas-Wärme GmbH
Price of gas to vehicle owner	€ 0,876 per kg
Price of gas to station owner	confidential
Opening hours	6 am to 10 pm
Method of payment	Cash, special card (Routex), credit card
Profitable or not, with figures if possible	Probability according to planned figures

A2.4 What was MADEGASCAR's major contribution to the Study

Networking, raise customer acceptance

A2.5 Were there any incentives to help establish the new filling station?

Not at this time, today the government gives subventions to built CNG filling stations
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A2.6 Barriers to establishing new gas filling station:

Permit procedure, contract negotiation with filling station owners, consumer acceptance

A2.7 How did MADEGASCAR help to overcome these barriers

Raise costumer acceptance, information platform

A2.8 How did others help to overcome these barriers

Advertising, direct costumer information, direct mailings

A2.9 Was a new gas filling station built as a result of your Study

yes

A2.10 Total capital cost of new filling station

Approx. Euro 300.000,-

A2.11 How long did it take to execute the Case Study/Feasibility Study

3 month

A2.12 What is the current status (e.g. finished, work in progress)

finished

A2.13 When did the Case Study/Feasibility Study start

January 2008

A2.14 When did/will the Case Study/Feasibility Study end

March 2008

A2.15 How long did you spend working on this Case Study/Feasibility Study

hours

A2.16 How did this Case Study/Feasibility Study cost

hours

A2.17 General conclusions and recommendations

A2.18 Comments

B. New biogas plants

B1. Case Study or Feasibility Study

B1.1. How many feasibility studies or case studies have you undertaken for biogas plants from 1 Sep 2007 to 20 Aug 2009

Number: 23

Number of case studies:	20
Number of feasibility studies:	3

B1.2 This is Case Study number Reporting date

B1.3 This is Feasibility Study number Reporting date

B1.4 Title of this Feasibility Study: **Biomethanproduktionsanlage Graz**

B1.5 How was the Case study/Feasibility study selected. According to what criteria?

Economical, profitability, availability of substrate, closeness of gas grid,

B1.6 Would this Case Study/Feasibility Study have taken place without the input from Madagascar

Yes or No **yes**

Please give details: (Was it planned before, was it started before, was it initiated by Madagascar, etc)

Decision to investigate the possibility to built biogas upgrading plants was taken before Madagascar started.

B1.7 Did you carry out the Study for a particular company or as a marketing tool?

Study was carried out for Energie Steiermark AG and Graz AG

B2. The Study

B2.2 List partners in your study

Owner of biogas plant

Company name: Energie Steiermark AG
Address: Leonhardstraße 59, 8010 Graz
Tel: +43 316 9000 -0
Fax: +43 316 9000 - 5919
Website: www.e-steiermark.com;

Owner of biogas plant

Company name: Graz AG- Stadtwerke für kommunale Dienste
Address: Andreas Hofer Platz 15, A-8010 Graz
Tel: +43 316 887-0
Fax: +43 316 887 796
Website: www.grazag.at

Supplier of waste

Company name: Several local waste treatment companies - negotiations are ongoing.

Plant construction company

Company name: not decided

Purchaser of biogas

Company name: Steirische Gas-Wärme GmbH
Address: Gaslaternenweg 4, 8041 Graz
Tel: +43 316 9000-0
Fax : +43 316 9000 - 28000
Website: www.e-steiermark.com

B2.3 Describe new biogas plant:

NEW Biogas PLANTS

Name of biogas plant and address	Biogasanlage Graz/Zettling
Type of location	Industrial estate
Make of biogas plant	
Principal feedstocks	municipal waste, biowast, brewery
Tonnes per annum of waste treated	60000 tpa
Cubic metres of biogas produced	6 to 7 mio. m ³ per annum
Proportion of biogas upgraded to biomethane	100 %
Method of upgrading the biogas to biomethane	PSA
Whether biomethane is fed into the gas grid	Yes
Name of gas filling station where biomethane is used	not decided yet
Method by which biomethane reaches a gas filling station	Gas grid, pipeline
Price paid for gas to biogas plant owner	confidential

B2.4 What was MADEGASCAR's major contribution to the Study

B2.5 Were there any incentives to help establish the new biogas plant?

B2.6 Barriers to establishing new biogas plant station:

B2.7 How did MADEGASCAR help to overcome these barriers

B2.8 How did others help to overcome these barriers

B2.9 Was a new biogas plant station built as a result of your Study

B2.10 Total capital cost of new biogas plant

B2.11 How long did it take to execute the Case Study/Feasibility Study

B2.12 What is the current status (e.g. finished, work in progress)

Work in progress

B2.13 When did the Case Study/Feasibility Study start

January 2008

B2.14 When did/will the Case Study/Feasibility Study end

finished

B2.15 How long did you spend working on this Case Study/Feasibility Study

6 to 7 month

B2.16 How did this Case Study/Feasibility Study cost

25.000 to 30.000
Euro

B2.17 General conclusions and recommendations

B2.18 Comments