



## Distributed Generation - Future Energy Resources



### Optimising the use of Distributed Generation in the European Energy System.

Dear Sir/Madam

**DG-FER** (Distributed Generation – Future Energy Resources) is a project sponsored by the European Union. One of our tasks is to help strengthen European suppliers to the distributed generation market. You can read more about the project in the enclosed press release or by visiting our home page – [www.dgfer.org](http://www.dgfer.org).

Within the project we are analysing how an increased use of DG can help build a future European sustainable and reliable energy system. With DG we mean all kinds of power **generation equipment installed and used close to where the energy is used** - piston engine generator sets, gas turbines, microturbines, fuel cells, small wind power, solar power etc.

The analysis shows a large potential for reduction in energy cost and investments as well as in emissions. However there are barriers for this to happen. Which are these and what should be done to overcome them? In short the project is developing a **Road Map for DG** in Europe.

The result of the project will be **presented to different European and national policymakers** in February 2004.

We have made a first suggestion for the road map. Now we need to discuss our suggestions with utilities and other energy companies in Europe. We need your input to make certain that our suggestions are well founded among all stakeholders. Some of our findings and suggestions are presented in Attachment to this email. There you can also see some of the key questions that will be discussed at the meeting.

We are therefore inviting you to an **Energy Companies workshop**. This will take place on **22 January 2004 in Brussels**. A draft programme for the workshop is given in the Annex to this letter. Also annexed are a map and a project outline.

COGEN Europe is partner in DG-FER and responsible for the arrangement of this meeting. Would you please therefore confirm your acceptance to COGEN Europe (attention of Ms Laurence van Hoorebeke, e-mail: [laurence.vanhoorebeke@cogen.org](mailto:laurence.vanhoorebeke@cogen.org) or tel +32 2 772 82 90). In addition, if you require further information please contact either Dr Simon Minett at COGEN Europe ([simon.minett@cogen.org](mailto:simon.minett@cogen.org) or +32 2 772 82 90) or myself.

If you cannot come yourself would you please ask someone else from your organisation to attend?

I look forward to your participation at the meeting.

Best regards,

Lars Malmrup  
Co-ordinator of the DG-FER project  
Tel +46 7 33 55 00 81  
E-mail [lm@enerinn.com](mailto:lm@enerinn.com)



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### STAKEHOLDER WORKSHOP – ENERGY COMPANIES

Date: 22 January 2004

Time: 10h30 to 16h30

Address: COGEN Europe  
Gulledelle 98  
1200 Brussels  
Belgium

### Agenda

10h30	Introduction & general project overview (including the current position in Europe)	Lars Malmrup, Co-ordinator of the DG-FER Project
10h55	EU Perspective	Jan Erik Hanssen, DG TREN, European Commission ( <i>invited</i> )
11h20	Vision for DG in Europe and Opportunities	Simon Minett, COGEN Europe
11h45	EU-DEEP	Etienne Gehain, Gaz de France
12h10	Discussion Period (covering only the morning presentations)	
13h00	LUNCH	
14h00	DG Road Map for Europe (45 minutes presentation and 15 minutes specific questions on the presentation)	Richard Knight, Rolls Royce
15h00	Key questions and discussion on the Road Map	Discussion led by Jacob Klimstra, Wartsila and Gabriela Prata Dias, Ecogen
16h30	Close	

**Meeting place:**

COGEN Europe

Gulledelle 98

1200 Brussels

Belgium

Tel +32 2 772 82 90

Fax +32 2 772 50 44

Web: <http://www.cogen.org/contact.htm>**How to get to the COGEN Europe Office**

We are half way between the airport and centre of Brussels, in a district called Woluwe Saint Lambert, off junction 19 of the E40 motorway, in front of the supermarket CORA.



(Click for larger image)

**If you use a taxi**

Most taxis know where Gulledelle is. If they do not then we are in front of the "Cora" supermarket in a part of Brussels called Woluwé-St. Lambert.

**If you use public transport**

Catch the bus at Merode metro station. The buses are sign posted inside the metro stations. You want to take the bus number 80 in the direction of Andromede. It takes around 15 minutes. At the busstop "Deux Maisons - Tweehuizen" (after "Capricorne - Steenbok") get off the bus, cross the road, go through some bollards and our office is one of the blocks in front of you ([Metro Plan](#), [Plan of Complete Network with Buses, we are on Segment G](#))

**If you come by car.***From Brussels:*

Take the E40 motorway out of Brussels in the direction of Luik/Liege - we are the first junction. At the top of the slip road turn right. Straight through the traffic lights. At the roundabout take the last exit into the supermarket CORA (at about 320 degrees). Park in CORA parking. Up the escalators in front of the supermarket there is a walkway to the street. Cross the road at the lights and Gulledelle is straight in front. Our building is on the third turning to the right. The walking distance is 100 metres.

*From elsewhere:*

From the ring of Brussels take the exit for the E40 motorway signed Brussel/Bruxelles and Liuk/Liege. Follow signs for Brussels, Go up two junctions, take exit 19 direction Woluwe and Evere. At top of the slip road turn left. Go through two sets of lights and you are at the roundabout again.



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### ABOUT THE PROJECT

#### DG - FER working group on Distributed Generation in Europe

Distributed generation (DG) has the potential to play an important role in a future sustainable energy system in Europe as well as in the rest of the world. Properly applied distributed generation, installed on a significant scale, can have very positive effects on the environment, energy efficiency, security of supply and price of electricity paid by consumers. However there are still barriers, technical and non-technical, that are limiting the introduction and use of DG in Europe as well as in other parts of the world.

In the US there are a number of rather well coordinated activities, which are going some way to addressing these issues, but so far there has been very little co-ordinated activity in Europe. A project called DG – FER (Distributed Generation – Future Energy Resources) has therefore been established under the EU's Altener program. Members of the project team are Turbec AB, ENEL, COGEN Europe, Rolls–Royce, Wärtsilä and ECOGEN.

The project will develop a roadmap for distributed energy in Europe, bringing together the various elements that comprise all the technologies and systems that make up distributed generation (DG) in order to provide an understanding of the links between renewable energy systems (RES), combined heat and power (CHP), distributed electricity-only projects, changes in the operation of the electricity network and the need for network reinforcement. Whilst there is currently a Commission policy for cogeneration and for renewable energy (which make up some of the DG technologies), there is no coordinated EU approach towards Distributed Generation as a whole. The DG-FER project will help overcome this in order to create a stronger basis for developing and adapting Commission policies to stimulate distributed generation for the benefit of European industry and electricity consumers. This approach will help make the best use of these technologies in the future.

The project will present its final result in early 2004 has the following main tasks

- Review and learn from ongoing and earlier European DG projects and activities. Benchmark with corresponding activities in US. Compile existing market evaluations
- Review existing policies, support measures rules and regulations. Estimate market potential in Europe and how DG can improve the future European energy system. Evaluate position of European based DG industries and technologies
- Develop a vision and a strategic plan for DG in Europe. What needs to be done to accomplish the vision –rules and regulations regarding

interconnection, installation and use of different fuels, commercial terms for grid access, standardization, R&D needs for DG technologies etc.

- Develop a road map. What is the way forward? Which further investigations have to be carried out? How and when will decisions have to be made? And by whom?

During the course of the project a number of work shops will be held with different stakeholders – equipment manufacturers, energy companies, distribution companies, environmental groups, policy makers etc.

It should be pointed out that all types of DG technologies will be considered in the project – those using fossil fuels as well as renewable energy systems – gas and diesel engines, gas turbines, microturbines, fuel cells, wind and solar power for example. The key requirement is that the technologies fall within the following working definition of DG “Power generation equipment and systems used generally at distribution voltages and where the power is mainly used locally on site”.

For further information please see our web page (<http://www.dgfer.org>) or contact project coordinator Lars Malmrup, Co-ordinator of DG-FER, phone +46 7 33 55 00 81 or e-mail [lars@malmrup.com](mailto:lars@malmrup.com)