



Distributed Generation -
Future Energy Resources



Strengthen European suppliers to the Distributed Generation market

Dear nn

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.

Within the project we are analysing how an increased use of DG can help build a future European sustainable and reliable energy system. What are the barriers and what should be done about those barriers? 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 next year.

We have made a first suggestion for the road map. Now we need to make certain that our suggestions are shared by a majority of European Manufacturers – be it of piston engine generator sets, gas turbines, microturbines, fuel cells, small wind power, solar power etc. 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 a **manufacturers' workshop**. This will take place on **2 December at 10h30 in the City of Frankfurt Council's Energy Department in Frankfurt**. The meeting is scheduled to finish at 16h30. 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 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 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



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STAKEHOLDER WORKSHOP – DG MANUFACTURERS

Date: 2 December 2003

Time: 10h30 to 16h30

Address: City of Frankfurt
Energy Department/Energierreferat
Room 243
Galvanistraße 28
D 60486 Frankfurt am Main
Germany

Please check in at the reception on arrival

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	"Systematic implementation of small and medium CHP in Frankfurt - going towards decentralized plant no. 100"	City of Frankfurt, Energy Department
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:

City of Frankfurt

Energy Department/Energierreferat

Room 243

Galvanistraße 28

60486 Frankfurt am Main

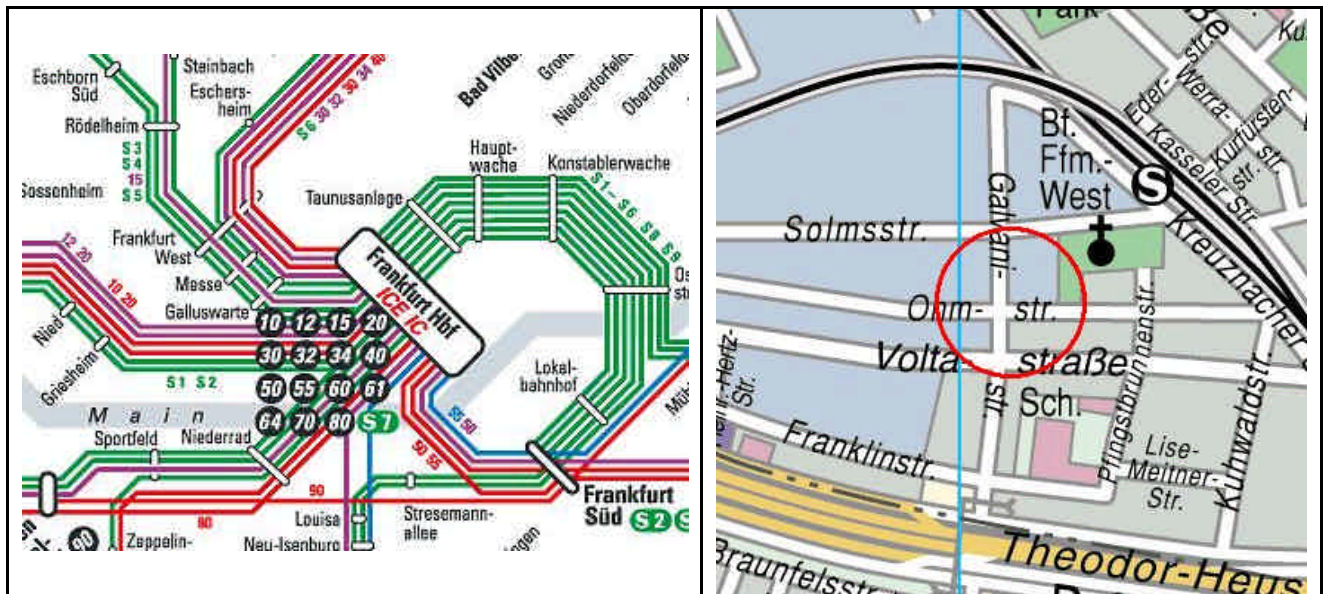
Germany

Web: <http://www.energiereferat.stadt-frankfurt.de>

Route description

With local train ("S-Bahn") S3, S4, S5 or S6 to "Frankfurt West". Go through the subway to Solmsstrasse and take the first street to your left.

A route description and maps are also provided on the Department's website





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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