



CO₂: How to use it as a resource

3rd International Workshop
Power Plant Technology Network NRW

18th and 19th November 2014, Hotel Melia Düsseldorf, Germany

Invitation

Experts worldwide agree that Greenhouse gas emissions and particularly CO₂ emissions must be significantly reduced. Various measures should be taken to limit the increase of global average temperature by a maximum of 2 °C compared to pre-industrial level.

Increasing shares of renewable energies in energy conversion and exploitation of energy efficiency potentials are key strategies with this regard. In addition, so called carbon capture and use technologies and processes (CCU) might contribute in the future. CO₂ of conversion and production processes can be re-used in chemical products like methane, ammonia.

Against that background, the workshop focusses the question of “How CO₂ can be used as a resource” and covers the following topics: The international situation, current activities in selected countries, new technical developments and utilization approaches of CO₂.

The workshop, organized by the Power Plant Technology Network of EnergyRegion.NRW together with Innovation Norway and the Rotterdam Climate Initiative of the Netherlands, offers the opportunity to update the information basis on CCU, to establish new contacts, to discuss current issues directly, and to initialize joint activities and projects.

Prof. Dr. Manfred Fishedick, Wuppertal Institute for Climate, Environment, Energy

Prof. Dr. Klaus Görner, University of Duisburg-Essen

Margit Thomeczek, Power Plant Technology Network NRW – EnergyAgency.NRW

Tuesday, 18th November 2014

2:00 p.m. **Opening and welcome address**

Prof. Dr. M. Fishedick, Wuppertal Institute (D)

Prof. Dr. K. Görner, University of Duisburg-Essen (D)

M. Thomeczek, EnergyAgency.NRW (D)

Block 1 International Situation

Moderation: M. Thomeczek, EnergyAgency.NRW (D)

2:10 p.m. **CO₂-Reduction: Cost strategies for mitigation (IPCC 5th Assessment Report)**

Prof. Dr. M. Fishedick, Wuppertal Institute (D)

2:30 p.m. **The CO₂ reduction strategy in a worldwide context**

J. Gale, IEAGHG (UK)

2:50 p.m. **The German perspective**

Dr. G. Menzen, Bundesministerium für Wirtschaft und Energie (D)

3:10 p.m. **The usage of CO₂ in industry**

Dr. S. Schirrmeister, ThyssenKrupp Industrial Solutions (D)

3:30 p.m. **The position of the NGOs**

G. Lederer, BUND (D)

3.50 p.m. **Coffee break**

Moderation: Prof. Dr. K. Görner, University of Duisburg-Essen (D)

4:10 p.m. **Discussion**

„How to create a road map to a CO₂ reduced world“

Prof. Dr. M. Fishedick, Wuppertal Institute (D)

J. Gale, IEAGHG (UK)

Dr. G. Menzen, Bundesministerium für Wirtschaft und Energie (D)

Dr. S. Schirrmeister, ThyssenKrupp Industrial Solutions (D)

G. Lederer, BUND (D)

5:30 p.m. **End of the 1st Day**

Wednesday, 19th November 2014, morning**9:00 a.m. Opening and welcome address**

Prof. Dr. M. Fishedick, Wuppertal Institute (D)

Prof. Dr. K. Görner, University of Duisburg-Essen (D)

M. Thomeczek, EnergyAgency.NRW (D)

Block 2 Activities in selected countries

Moderation: M. Thomeczek, EnergyAgency.NRW (D)

9:10 a.m. CCS, global state of play

T. Bertels, Shell International (NL)

9:30 a.m. Statoil's CCS experience and position

K. Hetland, Statoil (N)

9:50 a.m. Projects in the Netherlands

G. J. van Tongeren, Deltalinqs (NL)

10:10 a.m. White Rose CCS project

O. Stallmann, Alstom Carbon Capture (D)

10:30 a.m. Discussion**10:45 a.m. Coffee break****Block 3 New Technical Developments**

Moderation: Prof. Dr. M. Fishedick, Wuppertal Institute (D)

11:15 a.m. Overview on CO₂-sequestration

Prof. Dr. K. Görner, University of Duisburg-Essen (D)

11:35 a.m. Current state of CCS in the cement industry

Dr. H. Hoppe, VDZ (D)

11:55 a.m. Storing CO₂ offshore Norway, The Norwegian CO₂ Storage Atlas

E. Halland, Norwegian Petroleum Directorate (N)

12:15 p.m. Discussion**12:30 p.m. Lunch**

Wednesday, 19th November 2014, afternoon

Block 4 Utilization of CO₂

Moderation: Prof. Dr. K. Görner, University of Duisburg-Essen (D)

2:00 p.m. **Usage of CO₂ in industrial processes**

Prof. Dr. E. Kakaras, Mitsubishi Hitachi Power Systems Europe (D)

2:30 p.m. **Open innovation schemes in the field of resource efficiency and CO₂ usage**

T. Görgen, Bayer Technology Services (D)

2:50 p.m. **SCOT - Smart CO₂ Transformation**

H. Knippels, Rotterdam Climate Initiative (NL)

3:10 p.m. **Critical success factors for CO₂ as a feedstock**

K.-C. Tran, Carbon Recycling International (IS)

3:30 p.m. **Conclusion and next steps**

Prof. Dr. M. Fishedick, Wuppertal Institute (D)

Prof. Dr. K. Görner, University of Duisburg-Essen (D)

M. Thomeczek, EnergyAgency.NRW (D)

4:00 p.m. **End of the conference program**

The workshop speeches will be held in English and will be translated simultaneously into German.

Registration

3rd International workshop “CO₂: How to use it as a resource”, Tuesday, 18th and Wednesday, 19th November, 2014, in Meliã Hotel, Inselstrasse 2, 40479 Düsseldorf, Germany.

Online: www.kraftwerkstechnik.nrw.de

Deadline: 7th November, 2014

Please apply early, because the number of participants is limited!

Conference fees

390.00 EUR plus 19 % VAT

290.00 EUR plus 19 % VAT for members of the Power Plant Technology Network and Partner Organizations

150.00 EUR plus 19 % VAT for members of universities, public authorities

90.00 EUR plus 19 % VAT for students, pensioners

free for members of the press

The conference fees include the conference documents, meals and drinks during the workshop. After the workshop the presentations will be allocated to the participants.

After your notification you will get the invoice with the confirmation.

Cancellation

For cancellation before the start of the workshop the following fees will be due (Cancellation must be made in writing):

For the cancellation after the 7th November, 2014 (postmark) we will calculate 30.00 EUR plus 19 % VAT.

After the 12th November, 2014 we will calculate the full attendance fee.

The transfer of your registration to another person of your company/institution is possible.

The workshop is presented by the EnergyRegion.NRW -
Network Power Plant Technology NRW and EnergieAgentur.NRW Foreign Affairs
and Global Energy Markets

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and



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