



Transatlantic Urban Climate Dialogue

Workshop # 2:

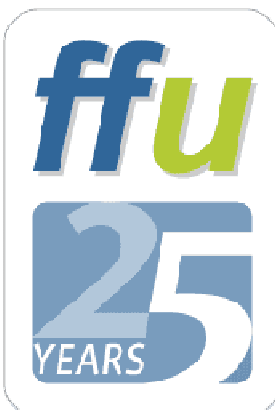
“Renewable Energies and Implementation Actions in Community Energy Planning”

May 2 – 4, 2012

Arlington/Alexandria, Northern Virginia



Northern Virginia Regional Commission



Venue:

Washington Gas HQ Facility
6801 Industrial Rd., Alexandria, VA, 22151

Accommodation:

Crowne Plaza Old Town Alexandria Hotel
901 North Fairfax Street
Alexandria, VA, 22314

We would particularly like to thank the following organizations for their generous support:

Washington Gas
German Trade and Industry Office
Volkswagen Group of North America
Alexandria City Public Schools
Fairfax County

Dominion Power
SAIC
Vornado
Arlington County

This is to acknowledge with thanks, the role that Peter Garforth plays in helping facilitate the Transatlantic Urban Climate Dialogue

Tuesday, May 1st — Arrival Day

Venue: Crowne Plaza Old Town Alexandria Hotel

18:00 Taxis from Hotel to BBQ Dinner at Aimee Vosper's House*
419 Jackson Place, Alexandria, VA 22301

20:00 Return to Hotel via Taxis

Wednesday, May 2nd — Field Tours**

08:30 Depart from Hotel for **Arlington County Offices**
2200 Clarendon Boulevard, Arlington, Virginia 22201, 3rd Floor

09:15 Welcome and Introduction
Jay Fisette, Arlington County Board of Supervisors

09:30 NOVA Community Energy Planning
Rich Dooley, Arlington County & Stephen Walz, NVRC

10:15 Tour of **Crystal City Community Energy Projects**
Vornado Command Center, 2345 Crystal Drive, Suite 100,
Arlington, Virginia, 22202
Jonathan Gritz, Vornado

11:30 **Tour of Washington Gas HQ Facility**
6801 Industrial Road, Alexandria, Virginia, 22151
Melissa Adams, Washington Gas

12:00 **Lunch** with Washington Gas

13:30 Depart by Bus from Washington Gas

14:00 Tour of **Alexandria City Public Schools Energy Efficient Schools**
James K. Polk Elementary: 5000 Polk Avenue, Alexandria, VA 22304
T.C. Williams High School Minnie Howard Campus (Grade 9):
3801 West Braddock Road Alexandria, VA 22302
Monika Szczpeniec & Bill Egger, City of Alexandria

16:00 Tour of **Tysons Corner Redevelopment Area**
Doug Koelemay, SAIC

18:30 Reception at the Offices of the Representative of
German Industry and Trade (RGIT)
1776 "I" Street, NW, Suite 1000, Washington, DC
Christoph Schemionek, RGIT

20:00 Return by Bus to Hotel

* Dress Casual

** Dress Business Casual for Entire Day

Thursday, May 3rd — Workshop*

Venue: **Washington Gas HQ Facility**

6801 Industrial Road, Alexandria, Virginia, 22151

08:00 Depart Hotel by Bus

08:30 **Welcome and Review of the Program**

Mark Gibb, Northern Virginia Regional Commission

08:45 **Keynote Speech:** John Randolph, Virginia Tech

09:15 Question and Answer

09:45 **Case Studies - Energy and the Built Environment: Implementation Actions in Community Energy**

Facilitated Discussion Led by Peter Garforth, Garforth International LLC

Review of Northern Virginia Case Study

Stephen Walz, Northern Virginia Regional Commission

Arlington County CEP and Crystal City IEMP

- Review planning framework
- DE & thermal utility potential
- Review cost - benefit analysis

Questions:

- What are the innovative and creative effects of the initiative?
- Assess whether these innovations can work in your city/region?
- What are the major barriers to transfer?
- What are the key opportunities for facilitating transfer?
- What next steps are necessary to facilitate transfer?

10:30 Coffee Break

10:45 **Review of Stuttgart Case Study**

Markus Siehr, Verband Region Stuttgart

Connecting Social and Ecological Interests: The General Principle of the Residential Building Corporation "Siedlungswerk", Stuttgart

- A new corporate strategy: linking social and ecological interests as unique selling point
- Reactivation of a former industrial location for housing and social issues
- Building bridges between young and old, owners and renter
- Implementing of innovative techniques for energy supply
- Consideration of climatic conditions
- Conflict of objectives: redensification versus green areas
- Integration into a grown surrounding

* Dress Business Casual for Entire Day

Questions:

- How to motivate landlords for energy saving issues?
- How do public bodies balance climate issues and redensification?
- How to interlink public and private sector?

11:30

Review of Guelph Case Study

Rob Kerr, City of Guelph

District Energy, Downtown Revitalization and Economic Development

- Retrofitting energy services in the built environment
- The business development process for initiating a DE system
- DE and the attraction of investment and development

Questions:

- How to market DE to potential customers?
- How to finance DE before revenue is guaranteed?
- Does DE need to be based on cogeneration or thermal only?
- Can customers also be net contributors to thermal systems?
- Who manages system? Private/Public?

12:15

Review of Ruhr Case Study

1. Example: Bottrop

Bernd Tischler, Lord Mayor of Bottrop

- Concrete: Focus on renovation of older buildings
- Single family homes from the 50s to the 70s
- Consulting concept
- Financial programs and actions in the context of Innovation City Bottrop:
National programs—State level—Local level

2. Example: Solar villages in NRW

Annette Voigt, Ministry for Economic Affairs, Energy, Building, Housing and Transport of the State of North Rhine-Westphalia
(Annette Nuesslein, windConsultant)

- Project management
- Involvement of the state government
- Concept and coordination
- Quality control

3. Example: Dinslaken

Dr. Michael Heidinger, Mayor of Dinslaken

- “Creative. Quarters Dinslaken” – a new concept
- Place of Debates – a new model
- Biomass/ Methane/ Solar energy

4. Excursion: Innovation potential and position in the city planning: Special challenges in Mega-Cities

13:00

Comments by Adrian P. Chapman

President & Chief Operating Officer, WGL Holdings, Inc. and Washington Gas

13:15

Lunch

13:45

Paul Hallacher, Pennsylvania State University:

Short Introduction: The Greater Philadelphia Innovation Cluster (GPIC) for Energy Efficient Buildings

14:00

Case Studies - Maximizing Jobs and Investment

Facilitated Discussion Led by Peter Garforth, Garforth International LLC

Review of the Northern Virginia Case Study

Stephen Walz, Northern Virginia Regional Commission

Loudoun County Economic Development Task Force

- Why private sector wants/needs to be involved
- Engagement process for these efforts
- Moving to investments and actions

Questions:

- What are the innovative and creative effects of the initiative?
- Assess whether these innovations can work in your city/region?
- What are the major barriers to transfer?
- What are the key opportunities for facilitating transfer?
- What steps are necessary to facilitate transfer?

14:45

Review of Stuttgart Case Study

Markus Siehr, Verband Region Stuttgart

Connecting social and ecological interests: the general principle of the residential building corporation "Siedlungswerk", Stuttgart

- Incorporation of a nursing home
- Incorporation of a day-care center
- Close interaction between private (e.g. finance) and administrative/public bodies
- Energy services
- Implementation in a high competitive market: long payback period as a challenge

Questions:

- How to motivate stakeholders from industry? What kind of incentives work in practice?
- What are the strengths and weaknesses of private-public-partnering/financing?
- How to win support from industry as an advocate?

15:30

Coffee Break

15:45

Review of Guelph Case Study

Rob Kerr, City of Guelph

Aligning Energy Planning, Investment and Economic Development

- City's role in integrating energy and economy
- Provincial legislative and regulatory oversight – friend or foe?
- Market perceptions of Integrated Community Energy Systems

Questions:

- What do we mean by Integrated Community Energy Systems?
- Are investors and developers passive or active participants in Integrated Community Energy Systems?
- Does the private sector see value in integrated energy services (such as DE) when compared to other cities?

- Are there models that can credibly analyze the economic impact of Integrated Community Energy Systems?
- How can a local government align its assets and organizational structure to better leverage energy in its attraction of business and investment?

16:30

Review of Ruhr Case Study

Bernd Tischler, Lord Mayor of Bottrop

Example: Innovation City Bottrop - Update in May 2012

- InnovationCity consists of over 100 single projects
- About half of these are financed by the industry, half are publicly or privately financed.
- Large companies support InnovationCity including Eon, Steag, Betrem and others.

Questions:

- The industry hopes for insight on further development of products and services. This increases the competitive ability and secures and increases jobs.

18:00

Depart by Bus to **Offices of VW of America Corporate Headquarters**

2200 Ferdinand Porsche Drive, Herndon, Virginia 20170

Anna Schneider, Volkswagen Group of America

19:00

Reception at Volkswagen Group of America

20:30

Return by Bus to Hotel

Friday, May 4th – Workshop*

Venue:

Washington Gas HQ Facility

6801 Industrial Road, Alexandria, Virginia, 22151

08:30

Depart Hotel for Washington Gas

09:00

Review of First Day

09:15

Case Studies - Education/Outreach

Facilitated Discussion Led by Miranda Schreurs, Freie Universität Berlin

Review of Northern Virginia Case Study

Stephen Walz, Northern Virginia Regional Commission

The Roles of Community Colleges, Virginia Tech, George Mason University in the Education Efforts

- Identification of training gaps
- Assessment of existing training resources
- Evaluations of future training demands for specific CEP and technical applications

*Dress Business Casual

Questions:

- What are the innovative and creative effects of the initiative?
- Assess whether these elements can work in your city/region?
- What are the major barriers to transfer?
- What are the major opportunities for facilitating transfer?
- What steps are necessary to facilitate transfer?

10:00

Review of Stuttgart Case Study

Markus Siehr, Verband Region Stuttgart

Connecting Social and Ecological Interests: The General Principle of the Residential Building Corporation "Siedlungswerk", Stuttgart

- Survey to energy supply and demand
- Monitoring system
- Awareness of finiteness of fossil energy carriers

Questions:

- How to sensitize tenants for climate or energy saving issues, especially younger ones?
- How to overcome barriers between science and industry?
- How to increase students' interest for climate / environmental / sustainable issues?

10:45

Coffee Break

11:00

Review of Guelph Case Study

Rob Kerr, City of Guelph

How Education/Outreach is Integrated Into Local Delivery of Provincial Conservation and Smart-Grid Programs

- Overview of Provincial smart-grid and conservation programs
- Local utility role in delivering smart-grid and conservation programs
- Relationship between Provincially mandate programs and locally developed communication strategies and targets

Questions:

- What is the role of community groups?
- What is the role of the private sector?
- Can local resources enhance Provincial and Federal programs?
- Is local Education/Outreach only about energy conservation?

11:45

Review of Ruhr Case Study

Annette Nuesslein, windConsultant

In NRW education, continuing education, and R & D can be found in a wide spectrum:

- On the job training
- University education
- Measurements for qualifications for architects and tradesmen
- Numerous measures in NRW also go with this topic and are available to the public

- 12:30 Working Lunch
Review of Workshop and Discussion About Preparations for 2012 and Beyond
- 13:45 Adjourn (Separate Buses to Hotel or to Prince William County)

Notional Agenda for Prince William County

- 14:45 Arrive at Manassas National Battlefield Park
- 14:45-15:30 Tour of Manassas National Battlefield Park
- 15:30 Depart Manassas National Battlefield Park
- 16:00 Arrive at Innovation Center
- 16:15 Tours to and Presentations From Micron Technology, Inc., George Mason University, Hylton Performing Arts Center
- 17:45 Depart Innovation for Old Manassas Courthouse
- 18:00 Arrive at Old Manassas Courthouse
- 18:00 Drinks and Dinner
- 21:00 Depart by Bus for Hotel

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Forschungszentrum für Umweltpolitik (FFU)
Environmental Policy Research Center
Freie Universität Berlin
Innestr. 22, D-14195 Berlin

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