



## Bioenergy Tour to Austria/Northern Italy

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May 10-14, 2010 · Vienna Region, Milano Region

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### Itinerary

#### **Austria**

##### **Sunday, May 9**

19:00 Meet and greet in the Hotel Mercure in Vienna

##### **Monday, May 10**

AM Presentations in Vienna:

- Introduction to the Austrian renewable energy situation: cost comparisons, economics, investment, development, and job creation
- District heating systems, boilers, and gasification from wood and ag-waste
- Emission improvements of biomass boilers

Lunch in Vienna

PM Board Bus for visit to Polytechnik in Weissenbach, near Vienna. Polytechnik is a manufacturer of thermal and CHP plants from 1-20 MW starting with 600 kW electric. They also have commercialized units. We will be able to view a 1 MW plant in operation

Return to Vienna hotel

##### **Tuesday, May 11**

Board bus and depart in the morning for Güssing, 170 km south of Vienna. Once economically depressed, Güssing has become a renewable energy boomtown, attracting several companies and creating many jobs. After a presentation, we will tour a CHP plant and a gasification plant. We will see a new process for wood gasification and tour various district-heating plants. Return to Vienna hotel.

##### **Wednesday, May 12**

Board Bus and drive up the Danube River to the Wachau valley. Visit RZ Pellets, a large integrated pellet producer (80,000 tpa). The 20 MW CHP plant provides heat to dry sawdust from an adjacent sawmill for pellets, and for the district-heating system and electricity production.

Lunch in village of Dürnstein. Climb up to Dürnstein Castle where Richard the Lion Heart was held captive on his return from the Crusades.

After lunch, visit Kausl Energy Service in the nearby Wachau Valley. This company operates several district heating plants and is involved in the planning, financing, and operation phases. We will view several small district-heating systems from 100 to 600 kW.

We will then go directly to Vienna Airport and board an evening flight to Milan.

## **Italy**

### **Wednesday, May 12**

We land at Malpensa Airport and bus to the Silver Hotel on the outskirts of Milan, near Abbiategrasso, where we spend the night

### **Thursday, May 13**

In Abbiategrasso, we will visit the Centre for Energy from Wood and Renewable Biomass with combined Uniconfort and Turboden technologies. The centre includes a small co-generation plant for the production of 200 KW/h of electricity and 1MW of thermal energy and a production of 32,000 tons of pellets. There is the possibility of presentations and a discussion/networking session with technology providers, local community representatives, and industry associations.

From there we bus to the city of Brescia to visit a Turboden assembly plant that specializes in economic Rankin-cycle small power systems ( 000kW-2MW<sub>e</sub>). Dinner is sponsored by Turboden and Uniconfort.

We will spend the night at either the Master Hotel or Regal Residence Hotel, both within walking distance of the historic city centre.

### **Friday, May 14**

Friday we transfer to Ponte di Legno, where we will visit a 10 MW (thermal) district heating plant with combined Turboden-Uniconfort Technology

We then bus to Tirano and view a large cogeneration plant with Turboden Organic Rankin Cycle turbine. Low-temperature RC technology is not subject to onerous steam engineer requirements governing many jurisdictions in Canada. Lastly we drive back to Milan where the tour ends.

Participants are responsible for arranging their own transatlantic flights, to Vienna, from Milan.

We all intend to board Air Berlin HG8824 Vienna to Milan Malpensa Wed May 12, and CanBio is now determining the cost/benefit of booking as a group, or individually.

We intend to book hotel space in advance and will ask for a hotel deposit from participants soon after registration.

\*Agenda is subject to change. For more information, contact:

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