



# **CAGBC ZERO CARBON TRADE MISSION TO NETHERLANDS AND AUSTRIA JANUARY 2018** **SAVE THE DATE**

**JANUARY 22 2018 TO JANUARY 26 2018**

## **OBJECTIVES**

- On the ground experience of net zero energy and zero carbon building sector in the Netherlands and Austria
- Providing opportunities for business to business networking and potential market opportunities in the Netherlands and Austria to participating Canadian companies
- Supporting Canadian industry and government in the transition towards a clean economy

## **ACTIVITIES**

- Site visits to innovative local net zero energy and zero carbon commercial, institutional, and residential projects.
- Meetings with local net zero subject matter experts, practitioners, and owners; and
- Meetings with key local government officials, green building industry companies, and firms providing trade expertise to Canadian companies.

**Registration details and full program coming soon**

# PROGRAM OUTLINE

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## NETHERLANDS – MONDAY, JANUARY 22 2018

### **Welcome Breakfast with Thomas Mueller, CaGBC and Diederik Beutener, Canadian Trade Commissioner Netherlands**

### **Visit to Huisvesting Alliander Building in Duiven – Renovation, commercial project**

This building is not only zero energy and zero carbon but energy positive, providing excess energy generated back to the grid. Some of the building's features include photovoltaic solar panels and the use of groundwater for heat storage. One of the main sustainable design approaches of the building is closed loop systems and material life cycle assessment.

### **Business meetings with Dutch Green Building Council**

The Dutch Green Building Council is an independent group that aims to make urban environments sustainable. The Dutch Green Building Council develops and issues the internationally renowned BREEAM-NL certificate. This certificate is the foremost index to compare buildings, projects, and land on the basis of sustainability in The Netherlands.

### **Visit Polak Building, Erasmus University in Rotterdam – New construction, institutional project**

The sustainable building features include a rainwater harvesting system connected to grey water-use system, a green roof, passive design elements that allow the building to harness daylight and make lighting redundant, and custom designed facade blinds that minimize heat from sunlight and wind exposure. The building also has an aquifer thermal energy ground storage and heat recovery systems to make it highly energy efficient.

### **Visit and business meeting at Think-wonen – Carbon Neutral Residential Construction Systems Factory in Drunen**

Think-wonen is building dwellings in their Drunen factory and transports the pre-fabricated ground and upper floors by truck to the construction site in just one day. Think Wonen has designed pre-fabricated factory-produced low cost social housing.



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Think Wonen is one of the two winners of the competition awarded by the municipality of Almere for the design of low cost social housing.

### **Networking Dinner at Canadian Embassy in Amsterdam**

**NETHERLANDS – TUESDAY, JANUARY 23 2018**

### **Visit and business meeting at the Edge OVG Real Estate Building in Amsterdam – New construction, commercial project**

The building combines advanced smart technology with high standards of environmental sustainable design and energy efficiency. The building is truly innovative example of integrated systems and a vision of the future of green smart buildings and has received many international awards. OVG is the largest real estate technology company in Netherlands. They develop smart, high-tech office buildings with a sustainable footprint. Their core purpose is to create healthier working, living, and learning environments by using smart technology.

### **Lunch Business Networking Meeting with Parallel 52 Member Companies in Amsterdam**

Parallel52 is a non-profit organization with an ideal of collaboration between the sustainable building sector in

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Canada and the Netherlands. The value of the network will probably increase with CETA, the free trade agreement between the EU and Canada, which is expected to be signed in 2013. The EU expects \$ 18 billion in new business between the two markets.

## **Visit Fluor in Amsterdam – New construction, commercial project**

Flour received a 72.4% BREEM score and provides energy savings of 50%. It incorporates different technologies that contribute to energy efficiency and sustainability, for example a heating and cold storage installation is used for heating and cooling. The building also has adaptable climate and light controls, and parking is equipped with 25 charging points powered by over 1900 m<sup>2</sup> of installed photovoltaic solar panels on the roof of the building.

## **Business meeting with Paul de Rujiter Architects**

## **Visit to Stroomversnelling residential project (new and/or renovation) and business meeting with Stroomversnelling Network**

The Energiesprong network in Netherlands is called Stroomversnelling and originated from the earlier government funded Dutch innovation programme Energiesprong, which aimed to create Net Zero Energy (NZE) buildings on a large scale in the Netherlands. The Stroomversnelling network consists of contractors, component suppliers, housing providers, local governments, financiers, DSOs and other parties. Its objectives are to reduce the renovation costs of NZE refurbishments, increase occupants' acceptance of these renovations and increase the momentum and pace of growth in the NZE housing market itself.

## **Reception with Dutch Ministry of Internal Affairs**

## **AUSTRIA – WEDNESDAY, JANUARY 24 2018**

## **Welcome Reception at the DC Tower hosted by leading international law firm Breiteneder**



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BREITENEDER is one of Europe's leading law firms with respect to European Collective Redress. We represent individuals as well as businesses of domestic or foreign origin and provide counsel in all matters concerning civil- or corporate law. Our working method is characterized by the precise preparation of the facts of the case as well as the elaboration of the accurate legal conclusion.

**AUSTRIA – THURSDAY, JANUARY 25 2018**

**15th International BauZ! Vienna Congress on Sustainable Buildings**

**Policy Meeting at Rathaus Vienna City Hall with City of Vienna and Embassy of Canada officials**

**Bauz Workshop Worldcafe on Certification Systems – A session with subject matter experts from Austria specifically organized for the Zero Carbon trade mission program.**

**Business Networking Reception at Rathaus Vienna City Hall with Austrian green building and net zero carbon companies**

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## AUSTRIA – FRIDAY, JANUARY 26 2018

### **Breakfast at hotel with representatives from City of Vienna, Canadian Embassy and the Austrian Institute for Healthy and Ecological Buildings**

The Austrian Institute for Healthy and Ecological Building (IBO) is an independent, science-based, non-profit organization, founded in 1980 to disseminate information on the impact of buildings on human health and well-being and on the environment. The IBO studies interactions between people, buildings and the environment. The IBO is supported by memberships from individuals, subject matter experts, and companies with interest in advancing green building and healthy living.

### **Visit to TU-Vienna Plus-Energie – Renovation, commercial project**

The building is Austria's largest plus-energy-office high-rise building with the largest photovoltaic system installation on the building façade, and the first energy positive commercial property in Austria. The building is owned by University of Vienna and houses technology companies. It is the first office high-rise in the world to deliver more energy to the grid than building operation and the building's daily usage. The Plus Energy Office Building is a unique research and construction project implemented by TU Wien in cooperation with the Federal Ministry of Science, Research and Economy (BWF) and the Federal Real Estate Company (BIG).

### **Visit to Raiffeisen EOD Tower – New construction, commercial**

The Raiffeisen HQ annexe on Vienna's Danube Canal is the world's first high rise passive office building. Heating and cooling with concrete as well as combined heat and power generation systems are the most important cornerstones of this sophisticated building technology. The EOD Tower of Raiffeisen-Holding NÖ-Wien has a photovoltaic solar energy system, cooling using the Danube canal's water, and a combined heat and power system that uses biogas. The building's energy consumption is less than 50% that of other office buildings that use conventional technologies.



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**Business Meeting and technical presentations at Aspern Smart City Research GmbH & Co KG on energy facts and data for net zero carbon project sites**

Aspern Smart City Research GmbH & Co KG (ASCR) is a joint venture between a network operator, an energy generation and supply company, a technology company and the City of Vienna. This cooperative partnership was established to develop some of the technical solutions that are required for the future energy environment and especially in a new real life urban district with active customers. This involves innovative approaches towards building automation systems and using the energy flexibility of buildings and the energy market in ways that enable residents to cooperate and accept the new systems.

**Visit to Hoho Tower – New construction (in progress), commercial project**

This building will be the world's tallest wood structure high-rise. 76 percent of the structure will be constructed from wood, which will save 2,800 tonnes of CO<sub>2</sub> emissions compared to similar steel and concrete structures. The timber construction system provides high efficiency in terms of thermal insulation and serviceability. HoHo Vienna will be built according to the TQB (Total Quality Building) evaluation system of the ÖGNB. The HoHo Tower will be completed by spring 2018.

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## **Visit to PopUp Dorms – New construction, residential project**

The PopUpDorms are passive-house quality student dormitories that were built in record time and with construction costs 12 % lower than the usual local cost for social housing in Vienna. After a record-breaking short construction time, of only one week, the student accommodation "PopUp GreenFlexStudios" was built in Aspern Vienna's Urban Lakeside to house 40 students.

## **Visit buildings at Aspern IQ Research – New construction, residential and institutional projects:**

- Aspern D12 Subsidised Housing – Analysing Different Energy Supply Systems
- Aspern IQ

The international research company Aspern Smart City Research (ASCR) is exploring the interaction between green and zero carbon buildings, the electricity grid, communication and information technologies (IT) and user behaviour in a large-scale energy research programme. The ASCR pilot implements an integrative system optimization in the domains smart buildings, smart grids and smart ICT at three building sites with mixed use (student homes - 300 rooms, 213 private apartments, school campus (kindergarten and school) in 3 buildings. The buildings are equipped with photovoltaic panels, solar thermal panels, hybrid panels, heat pumps and various thermal and electrical storage facilities. The facilities allow the analysis of different energy supplies in zero energy smart building design. They buildings use, generate and store their own energy. Complex ICT systems facilitate the optimal management of the production, distribution, consumption, storage and transmission of energy in the buildings.

End of Program