

## DENMARK SUSTAINABLE ENERGY AND INFRASTRUCTURE DELEGATION

Sept. 17-22, 2017

### Itinerary

#### *Sunday, Sept. 17, Copenhagen*

For general and cultural information, go to: <http://www.aok.dk/english> and  
<http://www.visitdenmark.com/denmark/tourist-frontpage>

For background information on sustainable energy and infrastructure, go to:  
<http://i-sustain.com/background-information-on-denmark-and-sweden/>

#### **From the Copenhagen airport, CPH:**

Local trains leave CPH's airport station every 10 minutes to Copenhagen Main Station (København H) and takes approx. 20 minutes. The hotel is a five minute walk from the train station. [Map from train station to hotel](#)

#### **Check into the Scandic Webers Hotel in downtown Copenhagen**

Address: Vesterbrogade 11B, Copenhagen V

Website: <https://www.scandichotels.com/hotels/denmark/copenhagen/scandic-webers>

**7:00 pm - Meet in the breakfast room for introductions and to review the itinerary and answer a simple questionnaire.**

**7:45 pm - Leave lobby for Welcome Dinner**

**8:00 pm - Welcome Dinner at Brasserie Degas**

Address: Gammel Kongevej 41B, 1610 København V

## Monday, Sept. 18, Copenhagen

**(!) THIS AFTERNOON IS OUR BIKE RIDE. IF YOU PREFER, YOU CAN GET YOUR BIKE IN THE MORNING AND MEET US AT THE VARIOUS LOCATIONS. Just go to the concierge, tell him/her you are with i-SUSTAIN and get a key to unlock a bike.**

### **8:30 am - Leave the hotel lobby; walk to State of Green building**

Address: Vesterbrogade 1E, 1620 Copenhagen V.

### **9:00 am to 9:50 am - Meeting with Confederation of Danish Industry (Energy Division) at State of Green**

Background: *Note in this presentation and many others how Denmark and Sweden are using their proactivity on energy and climate change as a local and national economic development strategy.*

Background: The Confederation of Danish Industry (DI) is a private organization funded, owned and managed entirely by 10,000 companies within manufacturing, trade and service industries. DI Energy is a business organization with 390 members sharing an interest in energy. DI Energy has three political key issues: 1) An efficient-energy transition, 2) A strong platform of competencies, and 3) To increase its members' exports and internationalization.

### **10:00 am to 11:00 - Introduction to State of Green**

Denmark has decided to lead the transition and become a green growth economy entirely independent of fossil fuels by 2050. House of Green is an interactive showroom in the heart of Copenhagen. Guided storytelling and self- exploration is used to showcase Danish integrated solutions and scenarios across the sectors of energy, water, climate, resources and the environment.

As the official green brand for Denmark, State of Green works to strengthen international awareness of the solutions and competences of Danish business and industry within energy, water, climate adaptation and environment.

State of Green is a non-profit, public-private partnership founded by the Danish government, the Confederation of Danish Industry, the Danish Energy Association, the Danish Agriculture & Food Council and the Danish Wind Industry Association. Specialties include Intelligent Energy, Energy Efficiency, Heating & Cooling, Water, Bioenergy, Wind Power, Solar, Resources & Environment, Other renewables, Sustainable Transport, and Climate Adaptation

### **11:45 am to 1:00 pm - Lunch at Karla**

Address: Dantes Plads 1, 1556 KBH V, Tlf: +45 3312 7025

### **1:30pm - 3:30pm - Bike Tour of Copenhagen with Copenhagenize.**

Start and end at Scandic Webers on Vesterbrogade 11B.

Background: Highlights of the tour include an introduction to Copenhagen's bike culture and

infrastructure, bicycle parking, bike bridges, bike paths, elevated cycle lanes and innovative bike projects, including suburban-urban commuting. This is also a great opportunity to experience the city and to see some innovative non-cycling related places such as a park that has been redesigned to accommodate the homeless.

**3:30 pm to 5:00 pm**

Afternoon free to explore Copenhagen on your own.

**Dinner on your own.**

*Tuesday, Sept. 19, Copenhagen/Kalundborg/Samsø*

**Please pack for an overnight trip to the island of Samsø and bring it with you this morning.**

- Transport of your luggage to the Malmö Renaissance Hotel has been arranged. Please have it turned in to the front desk by **8am at the latest**, and let them know you are with i-SUSTAIN.

**9:30 am to 11:00 am in the breakfast room at the Scandic Webers**

Danish Politics for Beginners - Inger Stokkink

Politics is a heady mixture of power, interests and ideologies - within the framework of democracy. In this presentation we'll scratch the surface of the Danish political structure, the political culture and the society in which they lie embedded.

Inger Stokkink is a freelance journalist, working in both Dutch and Danish markets. Stokkink holds a degree in journalism and a master's in political science from the University of Amsterdam.

**11:00 am - Walk to Copenhagen Central Station (København H)**

**11:45 am - Train departs from Copenhagen Central Station (København H)**

Re 1545 → Kalundborg St.

Arrive: 1:10pm Kalundborg St.

**1:30 pm to 3:30 pm - Industrial symbiosis program and site visits (lunch provided)  
Symbiosis Center Denmark**

Address: Rynkevangen 13, 4400 Kalundborg

Background: Kalundborg is town of 16,500 residents, 65 miles from Copenhagen which developed an interesting economic development strategy. It hosts the world's most well known example of Industrial Symbiosis, an association between two or more industrial facilities or companies in which the wastes or byproducts of one become the raw materials for another.. The motivation for exchange arose in the early 1970s from a mutual effort to reduce costs by seeking income-producing uses for "waste" products. Gradually, those involved realized that a carefully managed exchange of energy and materials could enable mutual economic benefit whilst reducing the environmental impact of large industrial operations. Today, Kalundborg's Industrial Symbiosis comprises eight core companies; DONG Energy Asnæs Power Station, Statoil-Hydro Refinery, Gyproc A/S, Novo Nordisk, Novozymes, recycling company RGS 90 A/S, waste company Kara Noveren I/S and Kalundborg Municipality. Each company is bound to each other via an intricate network of flows; flows of steam, gas, water, gypsum, fly ash and sludge.

### **Walk to ferry terminal**

#### **5:30 pm Meet-up at pedestrians' ferry entrance**

Enter ferry when access is given by terminal crew, and go to the “blue” salon.

#### **5:45 pm to 7:00 pm - Ferry to Samsø Island**

Route/Ferry: Kalundborg to Ballen/Samsø

“Blue” salon

Discussion during the crossing with Senior Captain Mikael Kjerulf.

#### **Check into Ballen Badehotel**

Address: Ballen Havn | 8305 Samsø | Phone: +45 8659 1799 <http://www.ballenbadehotel.dk/>

#### **Dinner on your own**

*Wednesday, Sept. 20, Copenhagen/Samsø*

**9:00am Leave hotel lobby and walk to Energy Academy**

Address: [Energiakademiet.dk](http://Energiakademiet.dk) - Strandengen 1, 8305 Samsø - Tlf. +45 8792 1011

**9:15am - 3:00pm - Energy Academy**

Background: Samsø Island is the world's first 100% renewable powered island. Much of the fuel used is local forestry and farm waste. We will start the day at Samsø Energy Academy, which, apart from being the daily workplace for the Energy Academy's staff, is a highly sustainable building. We will learn about the processes behind local ownership and engagement. How was it possible for Samsø to become self-sufficient with renewable energy in less than 10 years? In this presentation we will explain the processes behind Samsø's 10-year transition as Denmark's Renewable Energy Island and the vision to become fossil free by 2030.

The tour of the island will include the following:

- Visit to the straw-based district heating plant in Ballen/Brundby
- Visit to a wind turbine owned by a local farmer
- Visit to the Solar PV (photovoltaic) and electrical cars owned by Samsø municipality
- Visit to Mårup local district heating plant based on 75% woodchips and 25% solar thermal collectors

For in depth background information, download the 10 year status report at their website:  
<http://energiakademiet.dk/en/vedvarende-energi-o/>

**3:30 pm - Be assembled at ferry entrance**

**4:00 pm - Ferry departs Ballen for Kalundborg**

Arrive at Kalundborg Havn (SamsøFærgen) at 5:30 pm

**Walk to Kalundborg St.**

**6:46 pm - Train departs for Copenhagen Main Station (København H)**

Re 1560→in the direction of Østerport St., arrives 8:12pm at København H

**Note: \*quick transfer\***

**8:27pm - Train departs for Malmö Central station**

RE 29800→ in the direction of Göteborg C og Helsingborg C, arrive 9:06pm Malmö C

**Check into the Renaissance Malmö Hotel in downtown Malmö**

Address: Mäster Johansgatan 15 Malmö SE-211 21 Sweden

<http://www.marriott.com/hotels/travel/mmabr-renaissance-malmo-hotel/>

*Thursday, Sept. 21, Växjö, Sweden*

**8:15 am - Leave the hotel lobby for the train station.**

**8:48 am to 10:47 am - Take the train to Växjö.**

08:48 Malmö C - 10:47 Växjö stn  
Öresundståg, Regional, Train 1024 (Tåg 1024)

**11:15 am - 1:40pm - Växjö Municipality**

Address: Reception "Björnen" - Växjö kommun, Västra Esplanaden 18, Växjö

11:20 am - Introduction and Welcome to the City of Växjö, Mrs Anna Tenje, Municipal Council Chairman

11:30-12:30 Seminar about The Greenest City in Europe, Mr Henrik Johansson, Environmental Coordinator

12:30-13:00 Lunch

13:00-13:40 Seminar about The Modern Wooden City of Växjö, Mr Johan Thorsell, Business Developer, Wood and Urban Development

**2:10pm - 3:45pm - Discussion and tour of VEAB, Combined Heat and Power Plant**

Joachim Eriksson, Project Manager

Address: Kvarnvägen 35, 352 41 Växjö, Sweden

**4:10 pm Train departs for Malmö Central Station**

Öresundståg, Regional, Train 1089, arrive in Malmö C at 6:11pm

**7:45 pm - Leave the hotel lobby for the Farewell dinner**

**8:15 pm - 10:00 pm - Farewell dinner at Gro'up**

Address: Spånehusvägen 83, 214 39 Malmö

Background: When Växjö decided to be fossil fuel free in 1996, the city had already good experiences with using biomass in their district heating. When the municipality asked the transport companies, industries and firms in Växjö to join them in their mission, they liked the challenge too. Together they created a policy commitment "Fossil Fuel Free Växjö" to stop using fossil fuels and reduce CO<sup>2</sup> emissions in heating, energy, transport, businesses and homes. They wanted to take responsibility as a city and show that it is possible also to do something for the climate even if in a small city.

The city is now ahead of its goals in the majority of these commitments. 51% of its energy comes from sources such as biomass, hydro power, geothermal and solar energy. In little over a decade, emissions have been reduced by 24% per person to 3.5 tons of CO<sup>2</sup> annually - well below the European (8 CO<sup>2</sup>/a) and world (4 CO<sup>2</sup>/a) averages. With this track record, Växjö may well be the world's first fossil free city by 2015 (Let's see if it is.)

We will go to Växjö where we will cover:

- The bioenergy chain from forestry, biofuel production, heat generation and distribution to handling of wood ashes;
- Large and small scale combined heat and power and district heating and cooling plants using bioenergy;
- Consortium of bioenergy companies in the region that develop and promote bioenergy, nationally and internationally and support research;
- The modern “wooden city” of Välle Broar, which is building high-rise buildings using wood frames, including 8-story wood buildings.

*Friday, Sept. 22, Malmö, Sweden*

**9:00 am - Leave the hotel for a walking tour of Western Harbor.**

**9:30 am to 11:30 am - Walking tour of Western Harbor (Vastra Hamnen).**

Background: 20 years ago, Malmö was a city in decline. Over a short period of time, it's industrial base of shipbuilding was lost to Korea. Mayor Ilmar Reepalu boldly took the city into the future by creating a sustainability showcase in Western Harbor, and building the Turning Torso, at the site of the former shipbuilding crane, which had been the largest in the world. It is a story of transformation. The city of today is unrecognizable to the city that existed not too long ago.

**12:00 pm - Program is over -- Return to Hotel**

#### **OPTIONAL**

**1:30 pm Get in taxis from the hotel for the waste-to-energy plant tour**

**2:00 pm - 4:00 pm - For those who are still here, tour of Malmö's waste to energy plant, Sysav.**  
Address: Spillepengsgatan 13, 211 24 Malmö, Sweden

**THANK YOU!**