THE INTERNATIONAL OFFSHORE WIND POLICY FORUM FOR MASSACHUSETTS ELECTED OFFICIALS
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**ITINERARY**
SEPTEMBER 8 - 10, 2015
INTERNATIONAL OFFSHORE WIND POLICY FORUM

**MONDAY, SEPTEMBER 7, 2015**
*Travel to Copenhagen*
*Dress: Casual*

Boston to Copenhagen Travel Arrangements

**TUESDAY, SEPTEMBER 8, 2015**
*Arrive in Copenhagen - Introductions & Welcome*
*Dress: Business Casual*

**NOON**
Arrival, Copenhagen

**4:45PM**
Meet in hotel lobby and walk to welcome reception

**5:00PM**
Welcome Reception
Location: US Ambassador’s residence, Charlottenlund

**Speakers**

RUFUS GIFFORD  
US Ambassador

MARTIN BÆK  
Climate and Energy Ministry

MEMBER OF MA DELEGATION

STEPHANIE MCLELLAN, Ph.D.  
Special Initiative on Offshore Wind, University of Delaware

**7:30PM**
Dinner
Location: Skovshoved Hotel
Address: Strandvejen 267, 2920 Charlottenlund, Denmark
Phone: +45 39 64 00 28

**NIGHT**
Accommodation: Skovshoved Hotel
Address: Strandvejen 267, 2920 Charlottenlund, Denmark
Phone: +45 39 64 00 28
WEDNESDAY, SEPTEMBER 9, 2015

Travel to Grenaa & Aarhus - Offshore Wind Farm Tour and Facility Tour

Dress: Casual

6:55AM  Meet in hotel lobby

7:00AM  Bus and Ferry from Copenhagen to Grenaa
         Travel time: approximately 3 hours

NOON  Offshore Wind Farm Tour
       Duration: approximately 4 hours
       Lunch and refreshments will be served

       Presentations Onboard
       On the way to the wind farm

       Introduction to an Offshore Wind Park (30 min)
       Flemming Thomsen, DONG Energy

       Job Creation and Local Development - the Case of Anholt (20 min)
       Morten Basse Jensen, Offshoreenergy.dk

       On the way back from the wind farm

       OSW Member Presentations (30 min)

4:00PM  Drive from Grenaa to Aarhus
         Travel time: Approximately 1 hour

6:45PM  Drive from hotel to restaurant

7:00PM  Dinner
         Restaurant Navigator
         Marselisborg Havnevej 46D, Aarhus C

NIGHT  Accomodation: Comwell Aarhus
       Address: Værkmestergade 2, 8000 Aarhus, Denmark
       Phone: (+ 45) 8672 8000
THURSDAY, SEPTEMBER 10, 2015
Travel to Brande, Fredericia, and Copenhagen - Facility Tours + Presentations
Dress: Casual/Business Casual

6:55AM   Meet in hotel lobby

7:00AM   Drive from Aarhus to Brande
   Travel time: approximately 1 hour

8:15AM   Visit to Siemens Nacelle Manufacturing Facility
   Brande
   Factory Tour and Presentation
   Kjeld Thomsen, Commercial Head of Offshore Sales, RoE
   Jesper Nielsen, Technical Sales Manager, Offshore
   Karsten Flensborg, Technical Sales Director, Offshore Sales, ROE

10:00AM  Drive to A2Sea Headquarters, Fredericia
   Travel time: approximately 1 hour

11:00AM  Visit A2Sea Headquarters (Lunch)
   Travel time: approximately 1 hour
   Office Tour and Presentation
   Jens Frederik Hansen, A2Sea

12:15PM  Drive to DONG Energy Offices, Gentofte (Copenhagen)
   Travel time: Approximately 2.5 hours

3:00PM   Further Insights on Offshore Wind
   Presentations
   Danish Energy Policy – the long run perspective
   Kristoffer Böttzauw, the Ministry for Climate, Supply and Energy
   The development of an offshore wind industry
   Jan Hylleberg, Danish Wind Energy Association
   Broader industry perspective on offshore wind
   Troels Ranis, Confederation of Danish Industry
   Offshore wind as part of the energy mix
   Troels Ranis, Confederation of Danish Industry
   Wrap-up
   Offshore Wind Massachusetts

5:00PM   Break (2 hours)

7:00PM   Wrap-up Dinner
   Nimb Brasserie
   Vesterbrogade 3, Copenhagen V

NIGHT   Accomodation: First Hotel Kong Frederik
   Address: Vester Voldgade 25, 1552 København V, Denmark
   Phone: +45 33 12 59 02

FRIDAY, SEPTEMBER 11, 2015
Return to Boston
POLICY FORUM PARTICIPANTS
SEPTEMBER 8 - 10, 2015
INTERNATIONAL OFFSHORE WIND POLICY FORUM

DELEGATES

THE HONORABLE KAREN EILEEN SPILKA
State Senator

THE HONORABLE MARK C. MONTIGNY
State Senator

THE HONORABLE MARC R. PACHECO
State Senator

THE HONORABLE RONALD MARIANO
State Representative

THE HONORABLE PATRICIA A. HADDAD
State Representative

THE HONORABLE JAMES J. O’DAY
State Representative

THE HONORABLE THOMAS A. GOLDEN, JR.
State Representative

THE HONORABLE SARAH K. PEAKE
State Representative

STEVE PIKE INTERIM DIRECTOR
Interim Director, Massachusetts Clean Energy Center

CHRISTOPHER D. EICHER
Energy Policy Counsel to House Speaker Robert DeLeo

ATTILIO PAGLIA
Chief of Staff to Senate Minority Leader Bruce Tarr

SPECIAL INITIATIVE ON OFFSHORE WIND
UNIVERSITY OF DELAWARE

STEPHANIE MCLELLAN, Ph.D.
Director
THE HONORABLE KAREN E. SPILKA
STATE SENATOR
CHAIRWOMAN, SENATE COMMITTEE ON WAYS AND MEANS

First elected to the House of Representatives in a special election in the fall of 2001, Senator Spilka served three years in the House before her election to the Senate. She was officially sworn in as the State Senator for the 2nd Middlesex and Norfolk district in January 2005. As such, she represents the MetroWest, one of the most important economic regions in Massachusetts.

Senator Spilka currently serves as Chairwoman to the Senate Committee on Ways and Means. Prior to being appointed as the Chairwoman of Senate Ways and Means, Senator Spilka served as Senate Chair of the Joint Committee on Economic Development and Emerging Technologies. During this time, Senator Spilka oversaw the passage of an economic development reform law that revolutionizes the way the state does business, increases access to capital for small businesses. Senator Spilka also oversaw the passage of important legislation on clean energy and broadband access expansion.

Before becoming a legislator, Senator Spilka was in private practice as an arbitrator and mediator, specializing in labor and employment law and community and court mediation. Currently, the Senator is serving her 6th term in the Massachusetts State Senate. She is a graduate of Northeastern Law School and holds a Bachelor of Science from Cornell University.

THE HONORABLE MARK C. MONTIGNY
STATE SENATOR
ASSISTANT MAJORITY LEADER
SENATE CHAIR, JOINT COMMITTEE ON RULES

Senator Montigny was first sworn into the Massachusetts State Senate in 1993. He represents the City of New Bedford and the towns of Acushnet, Dartmouth, Fairhaven and Mattapoisett.

Senator Montigny is currently serving as the Assistant Majority Leader in the Senate. He also holds the position of Chairman of the Rules Committee. He has chaired numerous committees in the Senate, including the Senate Committee on Ways and Means. One of the most critical Committee assignments in the Legislature, the Ways and Means Committees consider all legislative matters concerning the finances of the Commonwealth.

Senator Montigny is currently serving his 12th term in the Massachusetts State Senate. He attended the University of Massachusetts Dartmouth.
THE HONORABLE MARC R. PACHECO
STATE SENATOR
CHAIR, SENATE COMMITTEE ON GLOBAL WARMING AND CLIMATE CHANGE
SENATE VICE-CHAIR, JOINT COMMITTEE ON TELECOMMUNICATIONS, UTILITIES AND ENERGY

Senator Pacheco was elected to the Massachusetts House of Representatives in 1988 and to the Massachusetts Senate in 1992. His district consists of various communities in Southeastern Massachusetts.

Senator Pacheco is founding Chair of the Senate Committee on Global Warming and Climate Change and serves as Senate Vice-Chair of the Joint Committee on Telecommunications, Utilities and Energy. He also serves on the Senate Committee on Personnel and Administration. He is former Chair of the Senate Committee on Post Audit and Oversight, the Joint Committee on Environment, Natural Resources and Agriculture and numerous other committees throughout his service in the State Legislature.

Throughout his career, Senator Pacheco has supported initiatives to spur job creation and economic growth, to preserve the environment and support the new "green" economy, to ensure the protection of rights for veterans, women and senior citizens, increase civic engagement, and foster the creation of global economic partnerships. Senator Pacheco was selected by Al Gore in 2007 to become a Climate Messenger to increase awareness around climate change and to encourage action to prevent its worst effects. He has prioritized these key issues of today to build a better future for the Commonwealth.

Senator Pacheco is currently serving his 7th term in the Massachusetts State Senate. The Senator earned his Master's Degree in Public Administration from Suffolk University. He has a Bachelor's Degree in Human Services from New Hampshire College, now Southern New Hampshire University, and an Associate's Degree from the University of Massachusetts-Stockbridge School. He has served as a guest lecturer at higher education institutions including Suffolk University, Harvard University and University of Massachusetts, Amherst.
THE HONORABLE RONALD MARIANO
STATE REPRESENTATIVE
HOUSE MAJORITY LEADER

Leader Mariano was elected to the Massachusetts House of Representatives in 1991. He represents the 3rd Norfolk District, which is comprised of Quincy, Weymouth and Holbrook. He serves as the Majority Leader in the House of Representatives, the highest-ranking member of the House of Representatives after the Speaker of the House.

Throughout his career, Representative Mariano has been a driving force behind financial services matters and health care reform efforts. From 2001 to 2009 Representative Mariano served as the House Chairman of the Joint Committee on Financial Services, where he was a key architect of the Commonwealth’s landmark health care reform of 2006 and principal proponent of transitioning the state’s auto insurance market to managed competition in 2008. As chair, Representative Mariano oversaw all legislative matters pertaining to banking and insurance. In February 2009, Representative Mariano was promoted to Assistant Majority Leader and led the House negotiations on education reform and health care cost containment legislation. Representative Mariano was appointed Majority Leader in 2011 by Speaker Robert A. DeLeo.

Representative Mariano is currently serving his 13th term in the Massachusetts House of Representatives. He graduated Northeastern University in 1969 with a Bachelor’s Degree in Business Administration, and received his Master’s Degree in Education from the University of Massachusetts Boston in 1972.

THE HONORABLE PATRICIA A. HADDAD
STATE REPRESENTATIVE
HOUSE SPEAKER PRO TEMPORE

Speaker Pro Tempore Haddad represents the people of Dighton, Somerset, Swansea and Taunton. A member of the House since 2001, she has served on a variety of committees including Human Services and Elder Affairs, Health Care, Medicaid, Natural Resources and Agriculture, Rules, Ethics and Ways and Means. Representative Haddad served two terms as Chairwoman of the Joint Committee on Education and was Assistant Majority Whip.

Currently, Representative Haddad serves as House Speaker Pro Tempore, the second-ranking member of the House of Representatives.

During her tenure in the Massachusetts House of Representatives, she has undertaken a number of assignments including the legislative Commission on Public Housing, Special Task Force on the Economy and Economic Development, Legislative Commission on Middle Level Education and the Council of State Governments/Eastern Region Committee on Energy and the Environment.

Representative Haddad is currently serving in her 8th term in the Massachusetts House of Representatives. She holds a Bachelor of Science from Bridgewater State University and an Honorary Doctorate of Public Administration from the Massachusetts Maritime Academy.
THE HONORABLE JAMES J. O’DAY  
STATE REPRESENTATIVE  
CHAIRMAN, JOINT COMMITTEE ON MUNICIPALITIES & REGIONAL GOVERNMENT

Chairman O’Day has been serving his district of Worcester and West Boylston since 2007 and has served in a variety of leadership roles. He was recently the Chairman of the Joint Committee on Elder Affairs. Prior to his this assignment, Chairman O’Day has served as the Interim Chairman of the House Committee on Bills in Third Reading, and as a general member to the Joint Committees on Mental Health and Substance Abuse, and Children, Families and Persons with Disabilities.

Chairman O’Day is currently serving as the House Chairman of the Joint Committee on Municipalities and Regional Government. This Committee is tasked with considering all matters seeking the enactment of special laws for a city or town, the establishment of economic, district and local planning commissions, and matters concerning the various counties, former counties and regional government entities. Since elected, Chairman O’Day has remained a strong advocate for Massachusetts’s Gateway Cities, playing a major role in the passing of many Gateway City legislative priorities.

Chairman O’Day is currently serving his 5th term in the Massachusetts House of Representatives. He obtained his Bachelor of Science at Worcester State College with a specialization in Urban Studies and Management and later served as a social worker for the Department of Social Services.

THE HONORABLE THOMAS A. GOLDEN, JR.  
STATE REPRESENTATIVE  
HOUSE CHAIRMAN, JOINT COMMITTEE ON TELECOMMUNICATIONS, UTILITIES AND ENERGY

Chairman Golden is currently serving as State Representative for the 16th Middlesex District which includes Lowell and Chelmsford. First elected in 1994, throughout his career at the State House the Representative has served on various committees such as Banks and Banking, Revenue, Healthcare, Energy, Public Safety and Chair of the House Committee on Bills in the Third Reading.

Chairman Golden is currently serving as House Chairman to the Joint Committee on Telecommunications, Utilities and Energy. The Committee considers a wide range of legislative matters, including the exploration and development of energy sources, including renewables, and the siting of energy facilities, public utilities and other related matters.

Chairman Golden is serving his 11th term in the Massachusetts House of Representatives. He holds a Bachelor of Science Business Administration and a Masters in Business Administration from the University of Massachusetts Lowell.

THE HONORABLE SARAH K. PEAKE  
STATE REPRESENTATIVE  
DIVISION LEADER

Representative Peake is currently serving as the State Representative for the 4th Barnstable District, which includes the Cape Code towns of Brewster, Chatham, Eastham, Harwich, Orleans, Provincetown, Truro and Wellfleet. She previously held the position of House Chair of the Joint Committee on Tourism, Arts and Cultural Development. She continues to hold a place on the House leadership team as a Division Leader.

Representative Peake is currently serving her 5th term in the Massachusetts House of Representatives. She holds a Bachelor of Arts from Colgate University and a law degree from Pace University School of Law. She previously practiced law, focusing on real estate, municipal law and land use.
STEVE PIKE  
INTERIM CEO  
MASSACHUSETTS CLEAN ENERGY CENTER

Steve Pike is the interim director of the Massachusetts Clean Energy Center.

The Massachusetts Clean Energy Center (MassCEC) is a state agency dedicated to accelerating the success of clean energy technologies, companies and projects in Massachusetts—while creating high-quality jobs and long-term economic growth for the people of Massachusetts. MassCEC has created nation-leading programs to deliver clean energy projects that are improving the environment while advancing the progress of clean energy companies in Massachusetts.

Mr. Pike previously worked as the general counsel to the MassCEC after practicing corporate law in Boston for nearly 15 years. Before attending law school at Boston University, he worked as a legislative director in the Massachusetts Department of Environmental Protection and as an assistant to the undersecretary of environmental affairs in the administration of former Governor William Weld.

CHRIS EICHER  
ENERGY POLICY COUNSEL TO HOUSE SPEAKER ROBERT DELEO

Mr. Eicher has been handling energy policy for Speaker DeLeo since last year. Prior to that, he was legal counsel to the House Committee on Ways and Means. He started at the State House as Legal Counsel and Committee director for the Joint Committee on Telecommunications, Utilities and Energy.

Mr. Eicher received his law degree from Northeastern University School of Law and his Bachelor of Arts from the University of Connecticut.

ATTILIO (“AJ”) PAGLIA  
CHIEF OF STAFF TO SENATE MINORITY LEADER BRUCE TARR

Mr. Paglia has been serving as Chief of Staff to Senate Minority Leader Bruce Tarr since 2009. Senator Tarr is the leading member of the Governor’s political party in the Senate.
RUFUS GIFFORD
U.S. AMBASSADOR TO DENMARK

Gifford worked as a political consultant in California from 2004 to 2008, signing on to work for Barack Obama in 2007. Since that time, he has held a series of job titles focused on fundraising. From 2008 to 2009, he was the California finance director for the Presidential Inaugural Committee, from 2009 to 2011 Gifford was finance director for the Democratic National Committee, and he was finance director for Obama for America from 2011 to 2012. In 2013, Barack Obama appointed Gifford as new Ambassador to Denmark.

MORTEN BÆK
DIRECTOR GENERAL, DANISH ENERGY AGENCY

Morten Bæk was appointed Director General to the Danish Energy Agency January 1st 2014. He has been with the Danish Ministry of Climate, Energy and Building since its creation in November 2007 - heading the Minister’s Private Office, HR and Administration and the Department of National Energy.

A former diplomat, Morten Bæk was stationed in Washington D.C. in 2004-2007 and has worked with Danish Security Policy, European Affairs and Development Assistance Policy with the Ministry of Foreign Affairs in Copenhagen.

Morten Bæk started his career in consulting, working for Accenture Ltd. and Danish Rambøll Management.

The Danish Energy Agency was established in 1976, and is an agency under the Ministry of Climate, Energy and Building. The Agency employs about 300.

The work of the Danish Energy Agency involves matters relating to energy supply and consumption, as well as Danish efforts to reduce carbon emissions. The Agency is also responsible for Danish building policy and promotes more sustainable building with regard to energy consumption, use of materials and economic issues.
COMPANY AND SPEAKER PROFILES
SEPTEMBER 8 - 10, 2015
INTERNATIONAL OFFSHORE WIND POLICY FORUM

WEDNESDAY, SEPTEMBER 9, 2015
OFFSHORE WIND FARM TOUR

FLEMMING THOMSEN
SENIOR PROGRAMME DIRECTOR, DONG ENERGY

“Introduction to Anholt Offshore Wind Farm”

DONG Energy is one of the leading energy groups in Northern Europe and are headquartered in Denmark. DONG Energy is a global leader in renewable energy and is the single world leader in deploying offshore wind, helping to reduce carbon emissions and harvest Europe’s own energy resources.

Flemming Thomsen is Senior Director in DONG Energy. From 2009-2014 he was the Programme Director for Anholt Offshore Wind Farm and thus had the responsibility of the construction of the largest offshore wind farm commissioned to date in Denmark. Starting out as a Power Plant Engineer in 1980, Flemming has more than 30 years of experience in the power business and more than 15 years of experience with development, construction, and financial and technical evaluation of wind power projects.

MORTEN BASSE JENSEN
CEO, OFFSHOREENERGY.DK

“Job Creation and Local Development – the Case of Anholt”

Offshoreenergy.dk is a member-based non-profit organisation with the overall purpose of gathering the offshore sector’s players, strengthening the sector and collaborating about the challenges of the future through a joint effort. Through development projects and networking initiatives, Offshoreenergy.dk ensures that exchange of knowledge and experience between companies takes place that can reinforce and visualize their competences.

Morten Basse Jensen is CEO of OffshoreEnergy.dk. Offshoreenergy.dk is the official national knowledge center and innovation network for the Danish offshore industry. On behalf of its member companies and institutions Offshoreenergy.dk initiates development with the aim of growth within the Danish offshore industry.

More than 270 companies and knowledge institutions have joined the organisation.
Siemens is a global powerhouse focusing on the areas of electrification, automation and digitalization. One of the world’s largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of systems for power generation and transmission as well as medical diagnosis. In infrastructure and industry solutions the company plays a pioneering role. As of September 30, 2014, we had around 343,000 employees in more than 200 countries. In fiscal 2014, they generated revenues of €71.9 billion from continuing operations.

Kjeld A. Thomsen is Commercial Sales Director in Offshore Sales RoE at Siemens Wind Power. He has a Bachelor of Science in Electrical Engineering from Aarhus School of Engineering. He has worked more than 22 years within the power business, on power plants, electrical transmission and distribution systems. He joined Siemens Wind Power in 2007 and has been part of the latest development of offshore wind - the start of the industrialization of the offshore wind business.

Jesper K. Nielsen has been working with sales in the wind industry close to 10 years, the past five years within Siemens Wind Power. With a background in controls and SCADA, Offshore Service and Maintenance and today sales of offshore wind turbines, Jesper has got insight in technical, commercial and political topics and challenges related to the offshore wind industry.

Karsten Flensborg is Technical Sales Director in Offshore Sales RoE at Siemens Wind Power. He has a Bachelor of Science in Manufacturing Engineering from the University of Southern Denmark and the University of Birmingham, UK. After more than 14 years in the automotive industry he joined Siemens Wind Power in 2007 where he initially worked on onshore projects, and amongst other got delegated to the US for a limited period.
A2SEA
powered by knowhow

JENS FREDERIK HANSEN
CHIEF EXECUTIVE OFFICER, A2SEA

A2SEA owns and operates 5 highly specialized installation vessels and manages 10 crew transfer vessels. Founded in 2000, A2SEA has been in the foundation and turbine installation market and within the service business since the very beginning. A2Sea is the world leader in offshore wind installations at a variety of locations. They are the offshore wind industry’s most experienced provider of foundation transport & installation, turbine transport & installation, and operations & maintenance logistics.

Jens Frederik Hansen joined A2SEA in 2008 bringing more than 20 years of management experience from the energy and environmental sectors including positions as managing director at Bladt Industries A/S and Babcock & Wilcox Vølund ApS as well as general management at ABB China and ABB Energi & Industri A/S. Jens Frederik Hansen provides strong leadership, and he is dedicated to keeping A2SEA one of the leading players within offshore wind worldwide and the preferred choice of installation partner in the offshore wind industry.

PETER JØRGENSEN
VICE PRESIDENT, ASSOCIATED ACTIVITIES, SYSTEM DEVELOPMENT AND ELECTRICITY MARKET

“Offshore wind as part of the energy mix”

Energinet.dk owns the Danish electricity and gas transmission system. Their main task is to maintain the overall short-term and long-term security of electricity and gas supply. Energinet.dk is an independent public enterprise owned by the Danish state as represented by the Ministry of Energy, Utilities and Climate. It has its own Supervisory Board. The enterprise was established by virtue of the Danish Act on Energinet Danmark of December 2004.
JAN HYLLEBERG
CEO, DANISH WIND INDUSTRY ASSOCIATION

“The development of an offshore wind industry”

The Danish Wind Industry Association (DWIA) is an interest and industry association with more than 250 members across Denmark. DWIA’s members consist of wind turbine manufacturers, energy companies and the wide range of companies that provide components, services and consultancy. DWIA manages the interests of the members and create the framework for the various fora, in which members can utilise the potential in knowledge sharing and exchange experiences with players within and outside the industry.

Jan Hylleberg is a member of the board of directors for: Global Wind Energy Council (GWEC), European Wind Energy Association (EWEA), and State of Green. Additionally, he is a member of the advisory board OffshoreEnergy.dk and an Observer on the board of directors for Lindoe Offshore Renewable Center.

TROELS RANIS
VICE PRESIDENT / BRANCH MANAGER
CONFEDERATION OF DANISH INDUSTRY

“Broader industry perspective on offshore wind”

The Confederation of Danish Industry (DI) is Denmark’s largest trade and employer’s association. DI works to ensure that the Danish business community has the optimum basis for competing, developing and manufacturing in Denmark and internationally. DI has more than 10,000 member companies within all industry sectors.

At the Danish Industry, Ranis is responsible for energy and climate change in DI and the industry community DI Energy. Before joining Danish Industry, Ranis worked at Pricewaterhouse Coopers, the Danish Energy Association, and the Ministry of Science and Business. Ranis graduated in Public Administration. Ranis holds expertise in regulation of the energy sector, energy taxation and general energy and climate policy.
COMPANY AND SPEAKER PROFILES
SEPTEMBER 8 - 10, 2015
INTERNATIONAL OFFSHORE WIND POLICY FORUM

THURSDAY, SEPTEMBER 10, 2015
FURTHER INSIGHTS ON OFFSHORE WIND

KRISToffer BÖTtzauw
DEPUTY DIRECTOR GENERAL, DANISH ENERGY AGENCY

“Danish Energy Policy – the long run perspective”

Kristoffer Böttzauw has been the Deputy Director General for the Danish Energy Agency since 2013. Before that he has held multiple key positions including head of department in the Danish Ministry of Health, special advisor in the Prime Minister’s Office and Special Advisor in the Ministry of Finance. Böttzauw was born in Aarhus and holds a master of Political science from the university of Aarhus.

The Danish Energy Agency was established in 1976, and is an agency under the Ministry of Climate, Energy and Building. The Agency employs about 300.

The work of the Danish Energy Agency involves matters relating to energy supply and consumption, as well as Danish efforts to reduce carbon emissions. The Agency is also responsible for Danish building policy and promotes more sustainable building with regard to energy consumption, use of materials and economic issues.

RASMUS ABILDGAARD KRISTENSEN
HEAD OF INTERNATIONAL DEPARTMENT
DANISH MINISTRY OF ENERGY, UTILITIES AND CLIMATE

“Broader industry perspective on offshore wind”

Since 2014, Rasmus Abildgaard Kristensen has been Head of the International Department, Danish Ministry of Energy, Utilities and Climate. From 2004-2006 he worked as an adviser at the Danish Institute for Human Rights on Corporate Social Responsibility issues. From 2006-2014 he was a career diplomat in the Danish Foreign Service (MFA) where – among other positions – he was Head of the Trade and Economic Analysis Unit in the Danish Trade Council (2013-2014) and posted to the Royal Danish Embassy in Beijing, China, where he was head of the Economic Department (2009-2013).

The Danish Energy The Ministry consists of the Department, the Geological Survey of Denmark and Greenland, the Danish Meteorological Institute, the Danish Energy Agency, the Danish Geodata Agency, the Danish Energy Regulatory Authority and Energinet.dk. The Department is primarily responsible for the coordination and development of domestic climate, energy and building policy, Denmark’s participation in international climate and energy forums and the EU as well as, inter-ministerial coordination. The Department consults with ministerial institutions when in need of expert advice.
COPENHAGEN, DENMARK

Copenhagen is the capital of Denmark and its most populous city, with an urban population of 1,213,822 (as of 1 January 2012) and a metropolitan population of 1,950,522 (as of 1 January 2013). Copenhagen is situated on the eastern coast of Zealand and stretches across part of Amager. A number of bridges and tunnels connect the parts of the city together, and the cityscape is characterized by promenades and waterfronts.

Originally a Viking fishing village founded in the 10th century, Copenhagen became the capital of Denmark in the beginning of the 15th century. During the 17th century, under the reign of Christian IV, it became a significant regional centre. Since the turn of the millennium, Copenhagen has seen a strong urban and cultural development, partly due to massive investments in cultural facilities and infrastructure. Since the completion of the transnational Øresund Bridge in 2000, Copenhagen has become increasingly integrated together with the Swedish city of Malmö, growing into a combined metropolitan area, known as the Øresund Region.

Copenhagen is the cultural, economic and governmental centre of Denmark; it houses trade, banking, information industry and shipping. It is an important centre for maritime industries and maritime trade in Europe, offering marine transportation and shipping lanes in both the North Sea and the Baltic Sea. Copenhagen is among the financial centres of Northern Europe with the Copenhagen Stock Exchange and home of many companies such as Maersk, Carlsberg Group and Novo Nordisk. Copenhagen has 89,000 students enrolled in its educational institutions.

After the energy crises in 1973 and 1979 Denmark found itself in a difficult position as regards energy. The country’s vulnerable dependence on foreign energy production had become obvious, and at the same time carbon dioxide emissions were high due to the country’s many electrical power plants fuelled by coal - an energy form which became increasingly unpopular as concerns over global warming grew in the 1980’s.

This situation led Denmark to start investing in renewable energy, particularly wind turbines. With grand scale financial backing from the state, Denmark’s wind turbine industry grew rapidly and the production of turbines as well as wind power soon became a major export for the country.

Today the Danish wind turbine industry, led by Vestas and Siemens Denmark, is the world’s biggest and the industry employs around 25,000 people.

Wind turbine cooperatives: Apart from financial backing of the wind industry, another state initiative that helped wind power on its way was a tax exemption for families who generate their own electricity. This led to the wind turbine cooperatives of which the first were founded in the eighties.

Families bought shares in the cooperatives, who in turn invested in community wind turbines. By 1996 there were more than 2,000 wind turbine cooperatives in Denmark and in 2004 more than 150,000 Danish families belonged to a cooperative. However, in recent years many cooperatives have been closed due to the inefficiency of small wind turbines compared to larger ones.

One of the most well-known examples of an up-to-date cooperative is the island of Samsø. Between 2000 and 2003 this community of 4,200 citizens erected 21 wind turbines. Together with other renewable energy measures, these wind turbines have made Samsø the largest carbon-neutral settlement on the planet.

Offshore Wind Farms: With the completion of Middelgrunden offshore wind park right outside the city of Copenhagen in 2001, Denmark had commissioned the world’s largest offshore wind farm with a capacity of 40 MW. Since that time, Denmark has commissioned several offshore wind farms. Latest, the Anhold wind farm was commissioned in 2013. The farm has 111 wind turbines with a collective capacity of 400 MW, will supply around 4 per cent of Denmark’s electricity production.

In 2014, wind energy supplied more than 39 per cent of the electricity consumed in Denmark. The goal is to reach 50 per cent by 2020.

In the longer term, wind energy is expected to feature strongly in Denmark’s aspirations to obtain 100 per cent of its energy from renewables in 2050.
Brande, Denmark (Siemens Wind Power Headquarters)

Brande is a railway town with a population of 6,974 located at the railroad between Vejle and Herning in Ikast-Brande municipality in Region Midtjylland in the central area of the Jutland peninsula in west Denmark. It is home to Siemens Wind Power, a major player in the offshore wind industry.

Siemens Wind Power, is a wind turbine manufacturer established in 1980 as Danregn Vindkraft. Bonus Energy was acquired by Siemens of Germany in 2004. The organization became a separate division of Siemens in 2011, with headquarters established in Hamburg, Germany.

In 2011, Siemens Wind Power had 6.3% share of the world wind turbine market. In 2009 it had a market share of nearly 75% of European offshore wind turbines by capacity and number.

History of the company started in 1980, when Danish irrigation system manufacturer Danregn, diversified into the wind turbine business; its first wind turbines were machines with rotor diameters of around 10 m (33 ft) with generator powers of 20 to 30 kW (27 to 40 hp). In 1981 the wind activities were separated into newly established company Danregn Vindkraft A/S, established by Peter Stubkjær Sørensen and Egon Kristensen in Brande, Denmark, with a capital of 300,000 kroner; the company’s product was a 55 kW (74 hp), 15 m (49 ft) blade diameter turbine.

Between 1982 and 1987 the company exported wind turbines to the USA in collaboration with Difko AS, in response to a wind farm building boom promoted by government subsidies; the company changed its name from Danregn Vindkraft to Bonus Energy in 1983, an easier name for the English speaking North American market.

In 1991, eleven 450 kW Bonus turbines were installed in the Vindeby Wind Farm (Denmark), the first offshore wind farm in the world.

The company sourced its first blades from Viborg based company Økær Vind Energi. Later it sourced blades from LM Wind Power. In the late 1990s Bonus began to develop its own blades, beginning production in the early 2000s in Aalborg.

Bonus AS was sold to Siemens in 2004 for an undisclosed amount, but before the sale the value was assessed to be somewhere between DKK 1.5 (USD 240 million) and 2.5 billion (USD 400 million). The sales and project management headquarters moved to Hamburg, Germany in May 2009.

Between 2004 and 2011, Siemens grew wind power from 0.5% to 5% of the combined Siemens turnover, with employees growing from 800 to 7,800, of which 5,200 are in Denmark, and 1,000 in Germany. The growth included the expansion of production, warehousing and offices at its Brande site in 2005/6; acquisition in 2006 of a former LM Glasfiber wind turbine blade factory in Engesvang, Denmark; construction of a blade factory in Fort Madison, Iowa, USA in 2007; a hub factory in Ølgod began production in 2008; and a nacelle manufacturing plant was established in Hutchinson, Kansas, USA between 2009 and 2010, opening in December 2010. Additionally Bonus Energy sales and service partner company AN Windenergie GmbH of Bremen, Germany was acquired in 2005.

In mid 2008 the company began testing of development prototypes of direct drive wind turbines; units based on the geared SWT-3.6-107 were installed in 2008 with a permanent magnet generator directly replacing the gearbox and alternator; successful tests led to development of a new production design by 2009. A prototype of the new direct drive design, an IEC 61400 wind class IA, 3MW machine (SWT 3.0-101 DD) was installed near Brande, Denmark in 2009. The 3MW design was launched as a product in April 2010, with significantly reduced complexity and lower nacelle weight than earlier 2.3MW designs. A 2.3MW version for lower wind speeds (SWT-2.3-113) was launched in 2011.

In 2010 Siemens Wind Power acquired 49% of A2SEA (an offshore wind farm installation company) from DONG Energy for a price of DKK 860m.

A factory established by Siemens Wind Power Blades (Shanghai) Co., Ltd. (SWPB) in Linggang near the Yangshan Deep Water Port began production in 2010. Additionally in December 2010 Siemens announced it would install a blade factory at an existing unused facility in Tillsonburg, Ontario, Canada. In early 2011 Siemens
and ABP announced the development of a £210 million turbine assembly plant, and dock development at Alexandra Dock, in Kingston upon Hull, UK.

In 2011 Siemens’ wind power operations were split into a separate division, 'Wind Power'; with its other renewable energy activities place into a 'Solar & Hydro' division, the divisions headquarters were established in Hamburg on 1 October 2011, the European offshore wind headquarters remained in Brande, Denmark.

In July 2012, the company agreed to supply Dong Energy with 300 direct drive, 75m blade, 6 MW SWT-6.0-154 turbines for the English offshore market from 2014. Two turbines are to be installed for testing at the Gunfleet Sands offshore wind farm. The value of the contract was estimated at over £2 billion.

In September 2012 Siemens Wind announced the lay off of 615 of a workforce of around 1650 workers in the United States, citing reduced demand for wind turbines due to uncertainty concerning future tax break incentives in the USA for wind power.

Siemens Wind has R&D, and production facilities in Brande, Denmark. Blade production is located in Aalborg and Engesvang (Denmark), Linggang (China), Fort Madison, Iowa (USA) and Tillsonburg, Ontario (Canada).

Other established production sites included nacelle manufacture at Hutchinson, Kansas (USA) and hub production at Ølgod (Denmark). Engineering and management for Siemens Wind North Americas is headquartered in Orlando, Florida (USA).

As of 2012 Siemens wind power products include 2.3MW turbines with rotor diameters of 82 to 113 m (269 to 371 ft), product codes: SWT-2.3-82; SWT-2.3-93; SWT-2.3-101; SWT-2.3-108; SWT-2.3-113, as well as 3.0MW turbines with 101m rotors, and 3.6MW turbines with 107 or 120 m (351 or 390 ft) rotors. Product codes SWT-3.0-101; SWT-3.6-107; SWT-3.6-120.

A 6MW design with a 120 to 154 m (390 to 505 ft) rotor is also under development - a prototype began testing in May 2011, and the design was launched as a product in November 2011.

AARHUS, DENMARK

Aarhus, or Århus, is the second-largest city in Denmark. The principal port of Denmark, Aarhus is on the east side of the peninsula of Jutland in the geographical center of Denmark.

Aarhus holds a significant position as Western Denmark’s knowledge and growth centre. The city has 1.2 million inhabitants within an hour’s drive and a university in the top 100 of the world’s 17,000 universities in several international rankings. This is instrumental in ensuring easy access to knowledge and labour of high international standards for the city’s businesses.

The Danish business conditions are positioned in the top of several international rankings, and with an easy access to knowledge and international-class labour Aarhus fully meets these rankings. The city has a well educated labour along with R&D environments of high international class, which in conjunction with a well developed infrastructure and a range of business strengths are contributing to the city being a unique and attractive place for investing in and running a business. This is why Aarhus is the right place for businesses who want to deliver solutions of the future.

Aarhus is experiencing rapid development. The population is growing and this growth is projected to continue in the years to come. During the last ten years Aarhus has been one of the fastest developing growth centres in Denmark. During the same period unemployment has been the lowest among the bigger Danish cities. Furthermore, Aarhus is currently experiencing a boom in construction involving large-scale development in large parts of the city. On the Aarhus Docklands several massive construction projects are in the making. These include projects such as, Navitas - a development hub for modern energy and the Urban Mediaspace — the library of the future.

Aarhus is home to a range of market leaders within the area of cleantech. The area covers environmentally friendly production using elements such as sustainable energy. In the years to come the city will reinforce this position by establishing Navitas: a new and interdisciplinary innovation centre within energy and environmental technology.
Aarhus is a strong player in the market of sustainable energy; thus three of the six largest wind turbine manufacturers in the world have chosen to place their activities within the Central Denmark Region. The Indian wind turbine giant, Suzlon, which owns around 10 percent of the world market and who is ranked as the third largest wind turbine manufacturer in the world, has chosen to place its headquarter for international operations in Aarhus, and in 2011 the world’s largest wind turbine manufacturer, Vestas, will move its global headquarters to Aarhus - though the company has already taken the world’s largest development centre for wind energy into operation.

Besides the presence of the large wind turbine manufacturers, there is a long range of subcontractors within energy- and environmental technology for both energy production and energy saving measures, and one third of Denmark’s cleantech industry is placed in the region. The businesses in the region excel especially within energy storage, production of sustainable energy and energy infrastructure and distribution. At the same time, the region has the highest rate of specialisation in Denmark, measured on the number of employees within energy and environment - and 40 percent of all Danish full-time employees within energy and energy technology work in the Central Denmark Region.

GRENAA, DENMARK (OFFSHORE WIND FARM ANHOLT)

Grenaa or Grenå is a town in central Denmark with a population of 14,308. The town centre is about 2 km west of the east coast of the Djursland peninsula in Jutland’s Region Midtjylland.

Anholt Offshore Wind Farm: In 2012 and 2013, DONG Energy built Denmark’s largest offshore wind farm between Djursland and the island of Anholt. During the summer and autumn of 2010, geotechnical investigations were carried out to determine the final layout of the Anholt Offshore Wind Farm. The 111 turbines, 400 MW farm was inaugurated in 2013.

Anholt Offshore Wind Farm produces enough electricity to supply the annual electricity consumption of 400,000 Danish households or approximately 4 percent of Denmark's total consumption.
LOGISTICAL OVERVIEW
SEPTEMBER 8 - 10, 2015
INTERNATIONAL OFFSHORE WIND POLICY FORUM

HOTEL OVERVIEW

Hotel Skovshoved
City: Copenhagen, Denmark
Date: Tuesday September 8, 2015
Address: Strandvejen 267, 2920 Charlottenlund, Denmark
Phone: +45 39 64 00 28

Comwell Aarhus
City: Aarhus, Denmark
Date: Wednesday September 9, 2015
Address: Værkmestergade 2, 8000 Aarhus, Denmark
Phone: +45 8672 8000

First Hotel Kong Frederik
City: Copenhagen, Denmark
Date: Friday September 10, 2015
Address: Vester Voldgade 25, 1552 København V, Denmark
Phone: +45 33 12 59 02

MEDICAL INSURANCE
You cannot assume your insurance coverage will go with you when you travel. It’s very important to find out BEFORE you leave whether or not your medical insurance will cover you overseas. You need to ask your insurance company two questions:

+ Does my policy apply when I am outside of the U.S.?
+ Will it cover emergency expenses like a trip to a foreign hospital or an evacuation?

In many places, doctors and hospitals still expect payment in cash at the time of service. Your regular U.S. health insurance may not cover doctor and hospital visits in other countries. If your policy doesn't go with you when you travel, it’s a very good idea to take out another one for your trip.
**CLIMATE**

+ The climate in Denmark is much like Massachusetts at this time of year: unpredictable.
+ Temperatures range from 50 F to 70 F on any given day, and rain is a likely possibility.
+ Be sure to pack a suitable jacket, sensible shoes, and a raincoat or umbrella if possible!
+ Remember that being on the sea can be chilly – and windy. We will be on the deck of the ferry to see the wind farm.
+ A snapshot of the weather forecast:

![Weather Forecast Image]

**ELECTRONICS**

Wi-Fi will be available to the trade mission group in all hotels.

North America and Europe have different electrical outlet configurations and use different voltages. North America uses 110 volts and Europe uses 220 volts. What does this mean? Basically, if you plug in a North American electrical device into a European outlet, your electronics will fry. Most higher end electronics (laptops, digital cameras, mp3 players, etc...) have built-in voltage adapters so the voltage difference doesn’t matter. Cheaper electronics (hairdryers, curling irons, etc...) don’t have a built-in voltage adapter.

**How to Check The Voltage of Your Electronics:** Your electronics will display the voltage in which your device operates. It will be printed near the plug or on the power brick.

**Voltage Converter:** You can buy a voltage converter that converts 220V to 110V but they are usually expensive, bulky and heavy. The converters are also known to malfunction and fry your electronics anyways.

**Special Note About Dual Voltage Appliances:** You can buy a dual voltage hairdryer/hair straighteners but they usually don’t work well. Often you’ll only get 50% of the power (i.e. it will take 25 minutes to dry your hair). It is better to just buy a cheap new hairdryer in Europe.

**European Plug Adapter:** North America and Europe use different plug configurations. You will need a plug adapter to be able to plug your electronics into European outlets. These adapters will NOT have any impact on voltage — they simply change the plug style.

**Flash Drives & Portable Hard Drives:** It might be a great idea to store important information on a USB flash drive (flight info, scan of passport, hostel confirmation info, important numbers, etc).
MOBILE DEVICES

MOBILE DEVICES: AT&T

International roaming and long distance service at pay-per-use rates are included with your AT&T Mobility service, and may be automatically provisioned on eligible customers’ lines of service. However, before calling or traveling abroad, we recommend that you:

1. Determine if your wireless device will operate in the country you are visiting.
   Tip: To ensure the broadest coverage, a quad-band (850/900/1800/1900) device is recommended.

2. Call customer service (800-331-0500) or visit an AT&T Mobility retail store to verify international roaming service is activated (or you may request it be blocked).

3. Verify rates by selecting the countries you will visit from the “International Roaming Rates and Coverage” list.
   Tip: Select “DETAILS” to view coverage maps.

4. Learn how to call home when traveling abroad.
   Tip: It’s easy to call or send a text message back to the U.S. Simply dial: “+” (1) (10-digit number).

LINK: http://www.att.com/shop/wireless/international.html#fbid=lp02irxcyxW

MOBILE DEVICES: VERIZON

Make sure your phone will work in the countries that you will be visiting

While cost might be a concern, there is nothing more frustrating than arriving at your overseas destination to find out that your cell phone doesn’t work. Check online or call your carrier beforehand to find out whether your phone will work in the countries you plan to visit. If you are a Verizon customer, then the Verizon website has an excellent Trip Planner tool that can help you with this task. (If you are a Verizon customer and you don’t have the right phone, then you can take advantage of their Global Travel Program. Under this program, Verizon will ship you a country-compatible phone which will give you all the call, text, and data services that you will need during your trip. You keep your regular phone number and you can transfer your SIM card or use Verizon’s Backup Assistant to take all your contacts with you. You just pay for the cost of shipping the device, and the usage costs appear on your regular bill.)

Buy an international plan before you go abroad

Even if you have a phone that works in the countries you will be visiting, you should make sure you arrange for an international plan before you start using the phone. This will allow you to take advantage of low calling, text, and data rates that your carrier has negotiated with local providers, and also eliminate all or most of those expensive roaming charges. Verizon has just introduced new international pricing, and again, Verizon customers can consult the Trip Planner to find the best available plan for their destination.

Turn your phone off when you are not using it

Many tourists and other travelers only want a phone for emergencies or to occasionally check in with the family back home. To make sure you keep charges to a minimum, you should turn off your phone when you are not using it. This way you avoid those unnecessary calls and connections that can quickly add up to a significant amount of dollars.

Uninstall or disable data-guzzling apps

Your smartphone may have weather, news or other apps that download data on a regular basis or every time your phone is turned on. While this data transfer may be comfortably absorbed by your monthly allowance back home, it could prove to be expensive while you are traveling overseas. Make sure any data-guzzling apps are uninstalled or disabled while you are abroad.

LINK: http://support.verizonwireless.com/clc/features/calling_features/international_dialing.html
CURRENCY & FINANCE

All flights, ground transportation, and most meals are covered in the fee. If you wish to purchase some local items, the following is some information for ease of transaction abroad:

1 Euro = 1.12 USD
1 Danish Krone = 0.15 USD

Credit cards, especially Visa and MasterCard, are widely accepted in most countries and are highly recommended in case of emergencies. Credit cards are convenient, reduce the amount of cash you need to carry, and automatically give you a good exchange rate. However, the interest rates may be high if you don’t pay off your card every month, they are subject to theft, and it is easy to spend money you don’t really have. You can access cash from your credit card (you will need to know your international PIN if using an ATM to do this) but the interest rates are extreme, so avoid this option if possible. Write down the phone number to call in case the card is stolen, and store it separately from the card. If the card goes missing, call immediately so you will not be charged for items you did not purchase.

ATM cards and debit cards are very convenient abroad. Find out from your bank: your international PIN (either 4 or 6 digits), if your card is connected to a worldwide system (Cirrus, Plus), if fees are charged for using a foreign ATM, and your daily withdrawal limit.

EMERGENCY CONTACT, SAFETY & EMBASSY INFORMATION

SAFETY INFORMATION

Pickpockets and purse-snatchers operate mainly at train stations -- the Copenhagen Central Station in particular -- and on crowded trains or buses. Sophisticated thieves target the Copenhagen Airport and cruise ship quays. The best precaution is to keep an eye on your belongings at all times. Do not put any bags containing valuables, such as your passport, credit cards, and airline tickets, down on the ground or on the back of a chair. Watch your computer bag, which is particularly desirable. Popular tourist attractions, like shopping streets and restaurants, also attract pickpockets and thieves. Hotel lobbies and breakfast rooms attract professional, well-dressed criminals who blend in with guests and target purses and briefcases left unguarded by unsuspecting tourists and business travelers. Pickpockets and purse-snatchers often work in pairs or groups with one person distracting the victim while another grabs the valuables. Since car and home break-ins have become more prevalent in recent years, we strongly recommend that you not leave any valuables in parked vehicles.

Don’t buy counterfeit and pirated goods, even if they are widely available. Not only are the bootlegs illegal to bring back into the United States, if you purchase them, you may also be breaking local law.

STOLEN PASSPORT

Contact the nearest U.S. embassy or consulate for assistance. Phone numbers for U.S. embassies and consulates are also available in our Country Specific Information and Key Officers handbook. You will need to speak to the American Citizens Services unit of the Consular Section. If you are scheduled to leave the foreign country shortly, please provide the Consular Section with details regarding your departure schedule. Every effort will be made to assist you quickly. You will also be directed to where you can obtain the required passport photos.

If you are notified by a relative or friend that their U.S. passport has been lost/stolen, you may wish to contact Overseas Citizens Services, (202) 647-5225 at the U.S. Department of State in Washington, D.C., providing as much information about possible about the person’s who needs passport services abroad. This will assist us in trying to verify the person’s previous passport, clearing the person’s name through the Department Passport Name Check System, and relaying this information to the U.S. embassy or consulate. Your relative/friend must apply for a new passport at the nearest U.S. embassy or consulate.

United States Embassy in Denmark
Dag Hammarskjölds Allé 24
2100 Copenhagen
Telephone: 45 3341 7100
Emergency after-hours telephone: 45 3341 7400
Fax: 45 3538 9616

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