

2012



NORDIC DEFENCE INDUSTRY SEMINAR  
COPENHAGEN, 2-3 MAY 2012

# A Smarter and Greener Defence



# Nordic Defence Industry Seminar Bella Center, Copenhagen 2<sup>nd</sup> and 3<sup>rd</sup> May 2012

Time	2 <sup>nd</sup> May 2012
0800	Exhibition Area will open for exhibitors
1030	<p style="text-align: center;">Official opening of NDIS 2012 By Deputy Permanent Secretary of State for Defence <b>Kristian Fischer</b> Danish Ministry of Defence</p>
1045	<p style="text-align: center;"><b>Keynote Session</b></p> <p style="text-align: center;">‘Dealing with Climate Change – problems, possibilities and prospects?’</p> <p style="text-align: center;"><b>Keynote speakers:</b> <b>Gerald Howarth</b> <i>UK, Minister for International Security Strategy</i> <b>Marcus Wallenberg</b> <i>Swedish Industrialist and Banker</i></p>
1115	Coffee break visit at the exhibition
1130	<p style="text-align: center;">A Smarter and Greener Defence <b>Danish Minister of Defence</b> <b>Nick Hækkerup</b></p>
1145	Lunch break visit at the exhibition

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1230	<p><b><u>NORDEFECO</u></b></p> <p><b>STATE OF PLAY</b></p> <p>This presentation provides an overview over the background and development of Nordic Defence Cooperation – the organisation, the work in process and the results.</p> <p style="text-align: center;"><b>Moderator</b></p> <p style="text-align: center;"><b>Arto Koski</b> <i>Deputy National Armament Director Finnish Ministry of Defence</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>General</i> <b>Peter Bartram</b> <i>CHOD Denmark</i> <b>‘NORDEFECO – A Platform for Nordic Defence Cooperation’</b></p> <p style="text-align: center;"><i>Rear Admiral</i> <b>Odd Werin</b> <i>Director of Plans and Deputy Head of Plans &amp; Finance Department, Swedish Armed Forces</i> <b>‘NORDEFECO results in 2011’</b></p> <p style="text-align: center;"><i>Lieutenant General</i> <b>Per P. Olsen</b> <i>National Armament Director Danish Defence Acquisition and Logistics Organization</i> <b>‘Danish Approach to Multilateral Cooperation in a Nordic Perspective’</b></p> <p style="text-align: center;"><i>National Armament Director</i> <b>Morten Tiller</b> <i>Norwegian Ministry of Defence</i> <b>‘Perspectives on Nordic Armaments and Defence Industrial Cooperation’</b></p>	<p><b><u>‘GREEN DEFENCE’</u></b></p> <p><b>CLIMATE AND ENERGY – GLOBAL TRENDS</b></p> <p>This session will provide a presentation on global trends regarding climate change and energy scarcity, and how for instance global demographic trends and current economic developments may influence this.</p> <p style="text-align: center;"><b>Moderator</b></p> <p style="text-align: center;"><b>Allan Rahbøl Jacobsen</b> <i>Head of International Office Danish Ministry of Defence</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Professor</i> <b>Katherine Richardson</b> <i>University of Copenhagen</i></p> <p style="text-align: center;"><i>Rear Admiral</i> <b>Neil Morisetti</b> <i>UK Climate and Energy Security Envoy</i></p> <p>Questions that may be explored:</p> <ul style="list-style-type: none"> <li>• Climate change – what are the facts - and why does it matter to the Defence?</li> <li>• How long will available fossil fuel reserves last, and how do global demographic trends influence this?</li> <li>• What are the expectations regarding prices of oil and gas in the future? And what does it mean for defence budgets, if we don't adapt?</li> <li>• How significant an environmental impact could there be if there were a greater shift to more energy efficient defence structures?</li> </ul>
1400	Break	
1415	<p><b><u>NORDEFECO</u></b></p> <p><b>MULTILATERAL COOPERATION</b></p> <p>This session will explore how NORDEFECO can evolve as a platform for multilateral cooperation and thus be instrumental in our efforts to meet current challenges regarding constraints on defence budgets and the need for dynamic and efficient partnerships?</p>	<p><b><u>‘GREEN DEFENCE’</u></b></p> <p><b>DEVELOPING GREEN POLICIES FOR DEFENCE</b></p> <p>Governments want to act responsibly and implement climate and environmentally sustainable solutions into all branches of government, including the Defence. Some countries have developed green strategies for the military focusing on reducing energy consumption, implementing renewable alternatives and protecting the environment and nature. This session will present concrete examples of how to develop green strategies that are adapted to the needs and concerns of defence establishments – and how to make them work in practice.</p>

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# Nordic Defence Industry Seminar

## Bella Center, Copenhagen 2<sup>nd</sup> and 3<sup>rd</sup> May 2012

	<p style="text-align: center;"><b>Moderator</b> <b>Name Pending</b> <i>Danish Defence Command</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Director General</i> <b>Jukka Juusti</b> <i>Head of Resource Policy Department, Finnish Ministry of Defence</i> <b>'Fast Track to cost savings in NORDEFECO - Are there any?'</b></p> <p style="text-align: center;"><i>Director Strategic Planning and Development</i> <b>Per Lodin</b> <i>The Swedish Defence Materiel Administration</i> <b>'A New Paradigm – Multilateral Cooperation/Smart Defence/Pooling &amp; Sharing – are nations ready to take necessary steps?'</b></p> <p style="text-align: center;"><i>Norwegian assistant Director General</i> <b>Bertil Møller Fyrileiv</b> <i>and</i> <i>Senior Advisor</i> <b>Victoria Furuhojve</b> <i>Norwegian Ministry of Defence</i> <b>'Status and perspectives on the review of the Nordic Agreement on Support for Industry Cooperation in the Defence Materiel Area?'</b></p>	<p style="text-align: center;"><b>Moderator</b>  <i>Deputy Permanent Secretary of State for Defence</i> <b>Kristian Fischer</b> <i>Danish Ministry of Defence</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Deputy Director</i> <b>Birger Carlson</b> <i>Swedish Ministry of Defence</i> <i>And</i> <i>Environmental Director</i> <b>Arne Wessner</b> <i>Swedish Armed Forces</i></p> <p style="text-align: center;"><i>Head of Department</i> <b>Mikkel Østergaard Nielsen</b> <i>Danish Ministry of Defence</i></p> <p><b>Questions that may be explored:</b></p> <ul style="list-style-type: none"> <li>• How to prepare, formulate and implement a viable green policy for Defence?</li> <li>• What are the expected/ achieved results?</li> <li>• What are the main obstacles when putting environmental policies into practice?</li> </ul>
<b>1515</b>	<b>Coffee break - visit at the exhibition</b>	
<b>1545</b>	<p style="text-align: center;"><b><u>NORDEFECO</u></b></p> <p style="text-align: center;"><b>INDUSTRIAL COOPERATION</b></p> <p>This session presents an industry perspective on the potential and perspectives for improved cooperation between NORDEFECO and industry.</p> <p style="text-align: center;"><b>Moderator</b> <i>Brigadier</i> <b>Peter Kølby Pedersen</b> <i>Danish Defence Acquisition and Logistics Organization</i></p> <p style="text-align: center;"><b>Speaker</b></p> <p style="text-align: center;"><i>Secretary General</i> <b>Jan Pie</b> <i>Swedish Security and Defence Industry</i> <b>'Nordic defence industry's potential for providing improved defence solutions to NORDEFECO member states – what is needed?'</b></p> <p style="text-align: center;"><i>Director</i> <b>Frank Bill</b> <i>Danish Defence &amp; Security Industries Association, FAD</i></p>	<p style="text-align: center;"><b><u>'GREEN DEFENCE'</u></b></p> <p style="text-align: center;"><b>PUBLIC-PRIVATE-PARTNERSHIP – A WIN-WIN-WIN SITUATION?</b></p> <p>This session will provide a presentation on how Public –Private –Partnerships (or 3P) can be used in promoting and implementing green policies.</p> <p style="text-align: center;"><b>Moderator</b>  <b>Name pending</b></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Group Vice President</i> <b>Gregers Johansen</b> <i>Grundfos</i></p> <p style="text-align: center;"><i>Name pending</i></p> <p><b>Questions that may be explored:</b></p> <ul style="list-style-type: none"> <li>• Where are the comparative advantages of Public –Private – Partnerships?</li> <li>• How can Public –Private–Partnerships enhance the implementation of green policies within the defence structures?</li> </ul>

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# Nordic Defence Industry Seminar

## Bella Center, Copenhagen 2<sup>nd</sup> and 3<sup>rd</sup> May 2012

	<p><b>Questions that may be explored:</b></p> <ul style="list-style-type: none"> <li>• How does the Nordic Defence Industry assess the current level of cooperation?</li> <li>• Are there potential for improving cooperation in a mutually advantageous way?</li> </ul>	<ul style="list-style-type: none"> <li>• How can we use Public –Private–Partnerships for mutual benefit – and for the good of the environment?</li> </ul>	
1615	Break - visit at the exhibition	1630	Break - visit at the exhibition
1645	<p style="text-align: center;"><b><u>NORDEF</u>CO</b> <b>(Nordic participation only)</b> <b>PROCUREMENT</b></p> <p style="text-align: center;"><b>Moderator</b></p> <p style="text-align: center;"><i>Lieutenant General</i> <b>Per P. Olsen</b> <i>Danish Defence Acquisition and Logistics Organization</i></p> <p style="text-align: center;"><b>The Nordic Countries Procurement Plans</b></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Senior Adviser</i> <b>John Arne Nyland</b> <i>Norwegian Ministry of Defence</i></p> <p style="text-align: center;"><i>Rear Admiral</i> <b>Leif Nylander</b> <i>Head of Materiel Production, Swedish Armed Forces</i></p> <p style="text-align: center;"><i>Brigadier</i> <b>Veli Pekka Valtonen</b> <i>Chief of Armaments Division, Defence Command Finland</i></p> <p style="text-align: center;"><i>Colonel</i> <b>Henrik R. Lundstein</b> <i>Danish Defence Acquisition and Logistics Organization</i></p>	<p style="text-align: center;"><b><u>'GREEN DEFENCE'</u></b></p> <p style="text-align: center;"><b>ALTERNATIVES TO FOSSIL FUELS IN OPERATIONS – FINDING SMARTER AND GREENER SOLUTIONS</b></p> <p>Modern military operations are heavily dependent on fossil fuels when operating at sea, in the air or on ground, at a high financial and environmental cost. This session will provide a presentation on how the demand for fossil fuels can be reduced by diversifying energy sources and expanding 'built-in energy security'.</p> <p style="text-align: center;"><b>Moderator</b></p> <p style="text-align: center;"><i>Independent Consultant "Energie voor inze"</i> <b>Marcel Hendriks Vettehen</b> <i>CAPT (E) RNLN ret.</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Deputy Director for Policy</i> <b>Oliver Fritz</b> <i>OUSD/AT&amp;L, ASD for Operational Energy Plans and Programs</i></p> <p style="text-align: center;"><i>Vicepresident</i> <b>Lars Hansen</b> <i>Novozymes Europe</i></p> <p style="text-align: center;"><i>Specialist</i> <b>Name Pending</b></p> <p><b>Questions that may be explored:</b></p> <ul style="list-style-type: none"> <li>• Can we reduce the dependency on fossil fuels with the same or even better level of performance?</li> <li>• Can we reduce the use of fossil fuels without compromising the safety and durability of the soldier?</li> <li>• Can alternative sources of energy reduce vulnerability through reducing dependency?</li> <li>• Are alternative energy sources a financially viable solution?</li> </ul>	

**Nordic Defence Industry Seminar**  
**Bella Center, Copenhagen 2<sup>nd</sup> and 3<sup>rd</sup> May 2012**

<b>1815</b>	<b>Chairman Summary</b> Deputy Permanent Secretary of State for Defence <b><i>Kristian Fischer</i></b> Danish Ministry of Defence
<b>1830</b>	Exhibition Closes Reception for all participants
<b>2015</b>	<b>VIP DINNER</b> Hosted by Ministry of Defence Nick Hækkerup  Dinner speaker: Minister of National Defence Lithuania <b><i>MRS Rasa Jukneviene</i></b>

# Nordic Defence Industry Seminar

## Bella Center, Copenhagen 2<sup>nd</sup> and 3<sup>rd</sup> May 2012

Time	3 <sup>rd</sup> May 2012	
0900	Exhibition Opens	
1000	Opening Keynote  <i>Peter C. Brun, Senior Vice President, Government Relations, VESTAS</i>	
1030	Break	
1045	<b>Defence Workshops</b>	<b>Green Defence Workshops</b>
	<p>WS 1</p> <p style="text-align: center;"><b><u>SIMULATION IN DEFENCE</u></b></p> <p>Simulation is being used by military personnel and staffs for training and mission rehearsal. The session will explore how enhanced use of simulation may improve training thereby saving lives at a significantly reduced cost.</p> <p style="text-align: center;"><b>Moderator</b></p> <p style="text-align: center;"><i>Head of Joint Technology and Innovation Branch</i> <b>Dr. Gert Hvedstrup Jensen</b> <i>Danish Defence Acquisition and Logistics Organization</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Major General</i> <b>Kjell-Ove Orderud Skare</b> <i>Norwegian Armed Forces Defence Staff</i></p> <p style="text-align: center;"><i>Senior Advisor and Chairman NATO Modelling and Simulation Group</i> <b>Niels Krarup-Hansen</b> <i>Danish Defence Acquisition and Logistics Organization</i></p> <p style="text-align: center;"><i>Vice Director</i> <b>Stefan Sandberg</b> <i>Pitch Technologies, Sweden</i></p> <p><b>Questions that may be explored:</b></p> <ul style="list-style-type: none"> <li>• What are the perspectives for enhancing the use of simulation?</li> <li>• What are the consequences of using synthetic environments instead of the 'real stuff'?</li> <li>• Can the defence use serious commercial games to reduce costs?</li> <li>• Can simulation contribute to making defence 'greener'?</li> </ul>	<p>WS 2</p> <p style="text-align: center;"><b><u>INTERNATIONAL OPERATIONS</u></b></p> <p>Deployable forces are heavily dependent on reliable energy supply for deployment, for basing and for operations. This session will provide presentations on how camps build focussing on environmental friendly solutions and low demand for energy supply support the overall purpose of smart thinking and 'more for less'.</p> <p style="text-align: center;"><b>Moderator</b></p> <p style="text-align: center;"><i>Rear Admiral</i> <b>Nils Christian Wang</b> <i>Commander of the Royal Danish Defence College</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Technical manager, Expeditionary campaign Infrastructure Project team</i> <b>Matthew Whittington</b> <i>and</i> <i>Power FOB Operational Concept Demonstrator Manager</i> <b>Paul Johnson</b> <i>DE&amp;S.</i></p> <p style="text-align: center;"><i>Chief Officer</i> <b>Olga Stravinskienė</b> <i>Lithuanian Energy Security Centre</i></p> <p style="text-align: center;"><i>CEO</i> <b>Jeppe Handwerk</b> <i>Copenhagen Group A/S</i></p> <p style="text-align: center;"><i>Chief Commercial Officer</i> <b>Uffe Thrane Hejlesen</b> <i>PURE H2O A/S</i></p> <p><b>Questions that may be explored:</b></p> <ul style="list-style-type: none"> <li>• What are technological trends on greener camp solu-</li> </ul>

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# Nordic Defence Industry Seminar

## Bella Center, Copenhagen 2<sup>nd</sup> and 3<sup>rd</sup> May 2012

		<p>tions?</p> <ul style="list-style-type: none"> <li>• Is it possible to make military camps less dependent on traditional energy sources such as gasoline, diesel etc.?</li> <li>• Are solar energy and/or wind turbines serious alternatives?</li> <li>• Can better waste and water management help reduce the environmental footprint?</li> </ul>
1200	<b>Lunch</b> <b>Visit at the exhibition</b>	
1300	<p><b>WS 3</b></p> <p style="text-align: center;"><b><u>COMBAT UNITS AND THE INFANTRY</u></b> <b><u>SOLDIER</u></b></p> <p>Weight is paramount when it comes to energy consumption – and mobility. This session will provide presentations on technological trends regarding weapon and equipment systems with a view to exploring what is done to make the combat soldier lighter.</p> <p style="text-align: center;"><b>Moderator</b></p> <p style="text-align: center;"><i>Colonel</i> <b>Henrik Refshauge Sommer</b> <i>Commander, Danish Army Combat Centre</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><b>Dan Lindell</b> <i>BAE Systems Hägglund</i> <b>'Armoured vehicles go green with modern technology'</b></p> <p style="text-align: center;"><i>Sales and Marketing Manger</i> <b>Nils Toverud</b> <i>Thales Norway</i> <b>"NORMANS"</b></p> <p style="text-align: center;"><i>R&amp;D Manager NAMMO</i> <b>Fredrik Erninge</b> <i>NAMMO</i> <b>'Green ammunition solutions, proven and here to stay'</b></p> <p style="text-align: center;"><i>And</i> <i>Sales Manager</i> <b>Janne Boström</b> <i>NAMMO</i> <b>'Small Calibre Ammunition'</b></p> <p style="text-align: center;"><i>Major</i> <b>Matti Honkela</b> <i>FDF Army Command, Materiel Division</i> <b>'Warrior 2020'</b></p> <p style="text-align: center;"><i>Business Development Manager</i> <b>Søren Gert Larsen</b> <i>Scanfiber Composites</i> <b>'Lighter Passive Armour Solutions'</b></p>	<p><b>WS 4</b></p> <p style="text-align: center;"><b><u>DOMESTIC DEFENCE</u></b></p> <p>National defence forces are major 'owners' of real estate, as defence needs major areas for barracks, air and naval bases, depots, training areas, etc. These establishments are all in need of energy for operating, heating and electricity. This session will provide presentations on the potential for greener thinking and cost saving regarding these domestic defence structures.</p> <p style="text-align: center;"><b>Moderator</b></p> <p style="text-align: center;"><i>Head of Environment and Energy Department</i> <b>Boie Skov Frederiksen</b> <i>Danish Defence Facility Management</i></p> <p style="text-align: center;"><b>Speakers</b></p> <p style="text-align: center;"><i>Head of Environmental Department</i> <b>Torild Jørgensen</b> <i>Norwegian Defence Estates Agency</i></p> <p style="text-align: center;"><i>Chief Advisor Sustainability</i> <b>Mikael Koch</b> <i>Danish Association of Architectural Firms, DANSKE ARK</i></p> <p style="text-align: center;"><i>Competence Director - Indoor climate and energy</i> <i>BREEAM Assessor</i> <i>MSc. Engineering</i> <b>Peter Noyé</b> <i>NIRAS Denmark</i></p> <p><b>Questions that may be explored:</b></p> <ul style="list-style-type: none"> <li>• How do you secure a more environmental- and climate friendly approach to running military establishments?</li> <li>• Are national policies changing on this topic?</li> <li>• What are the perspectives for savings?</li> </ul>

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	<p><b>Questions that may explored:</b></p> <ul style="list-style-type: none"> <li>• Knowing that weight is an important parameter when talking about going greener - what are technological trends with a view to armour, ammunition, guns, etc?</li> <li>• Equipped with high tech military equipment such as lasers, C2 systems, weapons, etc. that all depend on reliable energy supply the soldier is vulnerable. Are there technological solutions that could change this?</li> </ul>	
1500	<p>Break Visit at the exhibition</p>	
1530	<p>Chairman Conclusion End of Exhibition and Conference</p>	