

NIDV Symposium

The Conference



The theme of the 30th edition of the NIDV Symposium was 'International Collaboration'. The morning session was set in the completely renewed symposium hall, where moderator Angelien Eijsink guided the audience through an exciting programme. After welcoming Mr. Hans Hillen, the Chairman of the NIDV, Mr Hans Dibbetz was congratulated for attending all 30 editions of the NIDV Symposiums. The Jan Gmelich Meilijng thesis award was then presented to one of the three young nominees listed below:



1. Eva Bontje, Netherlands Defence Academy
'The synthetic conduct of war - Exploring the future military applications of biotechnology and its consequences for the Netherlands Armed Forces'
2. Roy Kok, Delft University of Technology
'Haptic assistance to mitigate vertical damaging accelerations of small fast ships'
3. Christiaan Leibbrandt, Netherlands Defence Academy and Royal Military Academy Brussels
'Probabilistic aspects of munition initiation to fragment impact'



Eva Bontje won the prize of 2,500€ and all three nominees were invited for a practice day with the Royal Navy during the summer of 2019.

After the prize presentation, the Minister of Defence, Ank Bijleveld-Schouten, and the COO of KPN, Joost Farwerck, pitched their view on 'International Collaboration'.

Angelien Eijsink closed the successful morning symposium with a short summary, after which the attendees had the opportunity to strengthen their network and experience and discover the innovations in the exhibition halls.

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High-level visitors

This year, the NIDV had the honour of welcoming some very high-level visitors. His Majesty King Willem-Alexander, the Minister of Defence, and the Secretary of State of Defence all took part in the NIDV Symposium.

After being welcomed by the Director of the NIDV, Ron Nulkes, and updated about the mission of the NIDV by political advisor Anne Brockherde, the King followed the pitches and discussions of Ms. Bijleveld-Schouten and Mr. Farwerck in the plenary Symposium hall. He then visited the booths of KPN, RE-liON and SIM-CI. At SIM-CI he experienced the flooding of Rotterdam through virtual reality glasses. The King concluded his visit with Damen Schelde and several start-ups at the start-up booth.

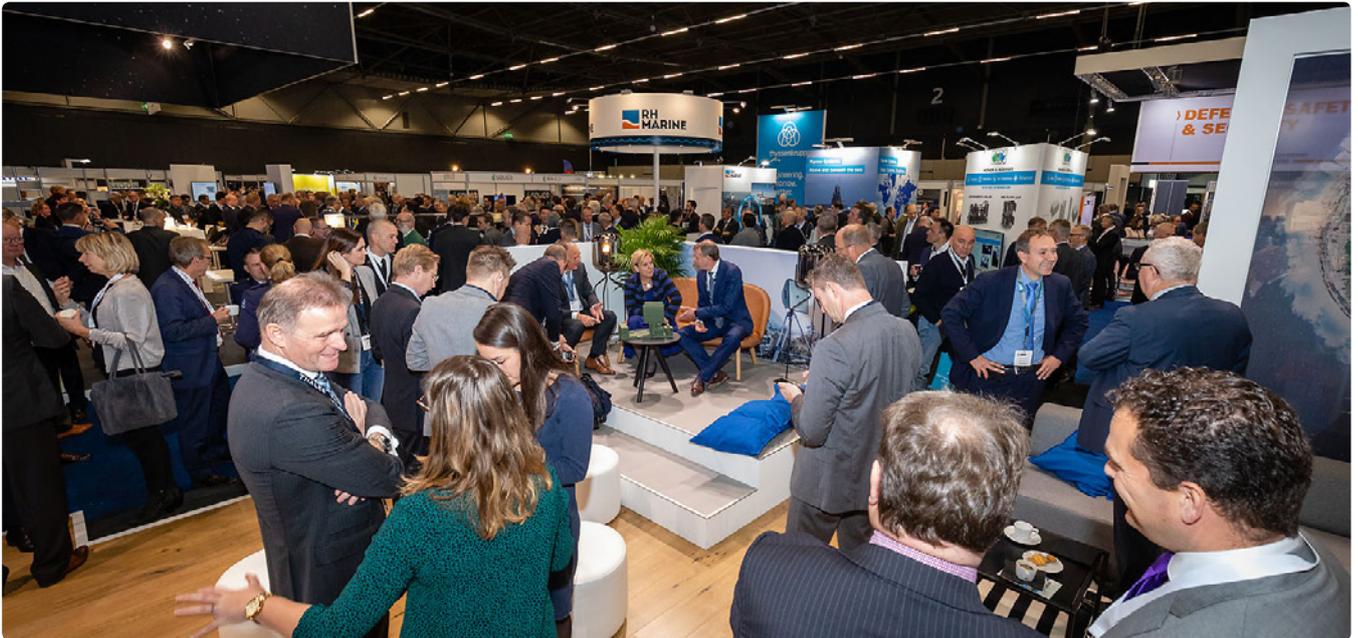


The Minister of Defence, Ank Bijleveld-Schouten, began her visit with a pitch and discussion of her views on International Collaboration. She met with four NIDV participants who presented their innovative products, and ended her visit at the DUKC and start-up area. In addition, she presented the Defence Industry Strategy to Mr. Hillen, Chairman of the NIDV, which was published the evening before.

Secretary of State of Defence, Barbara Visser, visited the Symposium in the afternoon. She attended a presentation of the DUKC and afterwards spent time at the start-up area. She also visited five innovative NIDV participants, was present at the signing ceremony of the Ministry of Defence and Thales about the upgrade of the Squire Radar, and met the visitors from the European Military Press Association (EMPA).



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Signature ceremonies, special moments and break-out sessions

The following signature ceremonies and special moments took place during the Symposium:

- Announcement of the Defence Industry Strategy (DIS) by the Minister of Defence, Ank Bijleveld-Schouten, and Chairman of the NIDV, Hans Hillen
- Signing ceremony of a Letter of Intent between NIDV and Joint Support Command (DOSCO) by Chairman of the NIDV, Hans Hillen, and Commander of DOSCO, General Emile Van Duren
- Signing ceremony regarding pilot knowledge centre cooperation between CGI, Capgemini and Royal Army
- Signing ceremony of the Air Assault contract between the Defence Material Organization and Mercedes Benz Cars Netherlands
- Presentation: Explanation of Dutch Underwater Knowledge Centre activities by Maarten Lutje Schipholt
- Signing ceremony regarding the Squire radar upgrade between Thales Netherlands and the Defence Material Organization by Gerben Edelijm (CEO Thales Netherlands and VADM Arie Jan de Waard (director Defence Material Organization)



Update European Defence Fund

On 19 November 2018, the Foreign Affairs Council of the European Union endorsed the partial General Approach for the Regulation on the European Defence Fund (the budget decision is still subject to agreement on the EU Multiannual Financial Framework).

The proposal for this Regulation was launched on 13 June 2018, meaning that EU Member States have agreed on this important proposal in less than 6 months. In July 2018, the European Parliament already provided its position, and both positions form the input for final negotiations in the Trilogue (EP, Council and EC) starting in January 2019, with a view to reaching an agreement well before the EP elections starting on 23 May 2019. Important topics for the Trilogue discussions remain the coverage of indirect cost and the IPR for companies within EU having non-EU executive management.

The Defence Fund will support both the research (4.1 B Euro) and the development (8.9 B Euro) phases of capability development. In most cases, EU Member States have to provide (financial) commitments in order for an industrial consortium to qualify for an EU grant. Participation of the Dutch industry and knowledge institutes in EDF projects is key.

More information at John Jansen, j.jansen@nidv.eu.

Save the date

This is a Save the Date message regarding the 2019 NATO BENELUX Industry Day on 22 March 2019 in Brussels (NATO HQ).

The NATO Delegations of Belgium, the Netherlands and Luxembourg will organise the 2019 NATO Benelux Industry Day in Brussels on 22 March 2019 in collaboration with the Defence & Security industry associations NIDV (NLD), Agoria-BSDI (BEL), and the Chamber of Commerce of Luxembourg GD (LUX). The location will be the NATO Headquarters in Brussels.

More information and invitations with the details for registration will follow.

The programme will include keynote speeches from the respective NATO Ambassadors as well as informative presentations on business opportunities within NATO context and the relations between NATO and the European Community on defence co-operation.

More information at John Jansen, j.jansen@nidv.eu.

NIDV supports the MOD to reduce its dependency on fossil fuel

In 2016 the Netherlands Ministry of Defence published the “Operationele Energiestrategie”. A policy paper aimed to reduce the Armed Forces dependency on fossil fuels. One of its goals is to generate on a compound 50% of its electricity sustainably. The Netherlands Industries for Defence and security (NIDV) has sketched a plan to realise this goal.

The plan is based on the “trias energetica”: reduce consumption with 40%, increase energy-efficiency by 20% and increase sustainable energy fivefold (currently around 5% of electricity on compounds is generated by solar panels).

Reduce consumption by 40%

In order to reduce power for heating, ventilation and air conditioning (HVAC), another type of accommodation is required. The current variety of small tents, containers and chalets must be replaced by large, possibly multi deck, temporary structures. This reduces the outside surface and the number of transport sluices. Above all it allows the large number of consumer aircon's to be replaced by industrial chilled water plants.

To reduce the energy required to run the kitchens, armed forces must stop using frozen food. It must be replaced by preserved meals as used by airliners. No need for power to keep it frozen during transport and storage. Preserved meals can be prepared with low grade heat e.g. waste heat or solar boilers. Preserved meals not eaten can be stored again rather than defrosted meals that have to be thrown away.

Additional Technologies to reduce energy are new laundry systems (washing with L-CO₂), LED-lighting, modern daylight systems that use fibre optics. Sanitary containers must be equipped with showers that re-use disinfected water, and vacuum toilets.

Increase sustainable power fivefold

To increase sustainable energy fivefold more space must be allocated to install solar panels and solar-powered boilers. The latter preferably in the vicinity of users of warm water e.g. galley, showers. Wind can be harvested by using kite power.

With half of the electricity from sustainable sources, on-site battery systems must be available to store excess sustainable energy when demand is low. Replacing diesel driven internal transport by electric vans will not only reduce fuel consumption but also provide extra battery capacity to augment on-site battery storage.

In order to balance generation and demand of power, energy management systems on a 24/7 base must be used i.e. the system can power batteries early in the morning with solar power already available but demand for HVAC still low.

Improve efficiency of prime movers

For the near future, the diesel generator will remain the preferred prime mover. To compensate for its poor part load performance, preferably a number of diesel generators must run in parallel. Other technologies are variable speed diesel generators or diesel-hybrid systems with batteries.

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For large long-stay compounds the use of high voltage grids is an option. However there are considerable costs involved and certified personnel is required to operate a high voltage grid.

Conclusions

Current technologies and commercial available systems enable the MOD to realise its goal to generate 50% of its electricity on compounds sustainably. No need to wait until 2030. However it requires a comprehensive plan and proper funding.

Acknowledgements

The participants: DNV GL Energy, Siemens Netherlands, TNO and Bredenoord - Energy and power.

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Agenda NIDV 2018

Berlin Security Conference	Berlin	27 until 28 November
Network Event Platform Defensie Bedrijfsleven	The Hague	6 December
NSPA Industry Day	Luxembourg	24 January 2019
Connection day at Thales	Hengelo	February 2019
NAVO Benelux Industry Day	TBD	22 March 2019
Purple Nectar	Amersfoort	28 March until 5 April 2019

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