

NATO Energy Security Centre of Excellence

The NATO Energy Security Centre of Excellence

15 October 2015, Vilnius

COL Gintaras BAGDONAS (LTU Army) Director





What is Energy Security ?

- No universally accepted definition
- The International Energy Agency (IEA) :

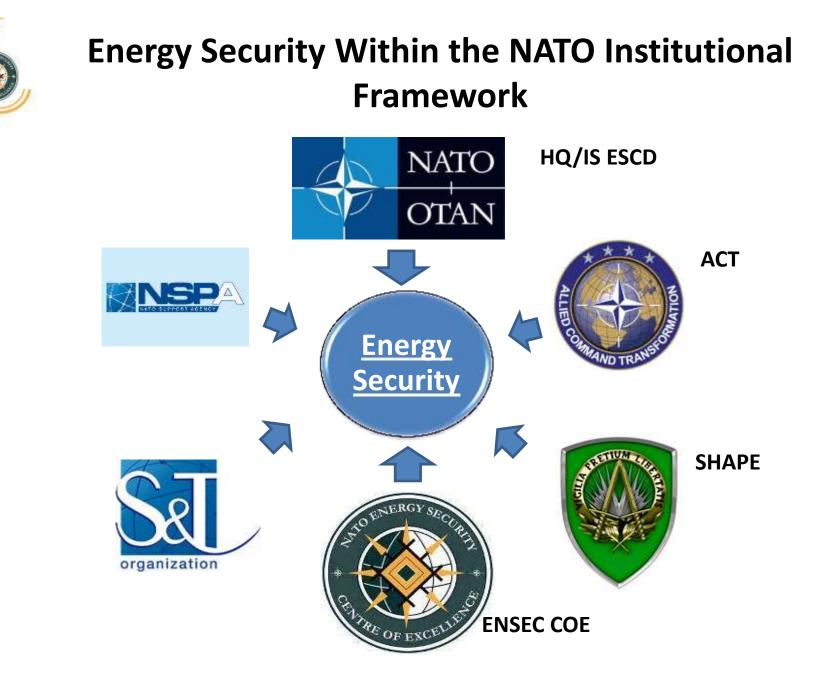
The uninterrupted availability of energy sources at an affordable price.

• ENSEC COE (working definition) :

Energy security refers to the uninterrupted availability and resiliency of energy sources to support ALLIANCE SECURITY INTERESTS

Constellation of CoE's since 2003 (24 CoEs)







NATO ENSEC COE

Mission :

To assist NATO bodies, Nations, Partners, and other civil and military institutions by providing comprehensive and timely expertise on all aspects of energy security.



Vision:

NATO ENSECCOE acts to become a recognized hub of knowledge and expertise in Energy Security within NATO

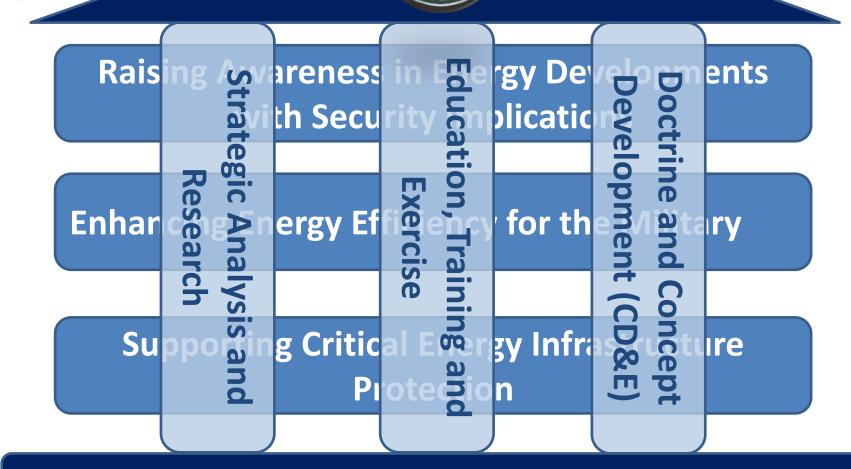






- NATO ENSEC COE established on July 10, 2012;
 - Lithuania = framework nation;
 - Estonia, Italy, France, Latvia, Turkey = sponsoring nations;
- Accreditation by NAC on 12 October 2012;
- 2014: First enlargement: Georgia (contributing partner), UK, Czech Republic (Voluntary Nation)
- 2015: USA is expected to join by the end of the year





PROGRAMME OF WORK

NATO ENSECCOE Outreach

Cooperation with :

- > other COEs (24)
- NATO / National military organizations

Partnership Sectors:

- ✓ Military Civilian
- ✓ Public Private







The Golden Triangle: Military, Academia and Industry





<u>1. Raising strategic Awareness</u> <u>within the military</u>

- Education and Training ;
- Exercises;
- Studies/researches;
- > Industry exhibitions.

Education and Training Efforts

- On 09 March 2015, NATO Energy Security Education and Training Plan has been approved by North Atlantic Council.
- SHAPE J5
 Requirement Authority (RA)
- NATO ENSEC COE
 Department Head (DH)
- Coordinate and collaborate NATO Education and Training efforts on Energy Security based on the requirements set by RA.



Education and Training Efforts (Individual)

- ADL Energy Security Awareness Course (DoK 100/200) (to be available on line in NATO e-portal in 2015)
- Energy Security Pilot Course (DoK 300)

(Done between 25-29 May 2015 in NATO ENSEC COE)





Energy Security Strategic Awareness course (DoK 400/500)

(NATO School, Oberammergau, 28 Sep 15 - 02 Oct 15)









- > Table Top Exercise (TTX), October 2014;
- UA case : CEIP study, Conference;
- Studies & Researches;
- > Workshops (i.e. on LTU Gas Terminal).

Experience and best practices sharing Klaipeda (LTU) LNG Terminal Security Roundtable (12 December, 2014)

Aim: discuss the potential means of ensuring the safety and protection of energy infrastructure related to the LNG terminal.

Organizers:

- the NATO Energy Security Centre of Excellence
- the Ministry of the Interior of the Republic of Lithuania
- together with Joint Stock company 'Klaipėdos nafta' (operator)

Security proposals for LTU LNG terminal were based on good practices:

- at the Gate Terminal at Gasunie (Rotterdam) and
- future LNG terminal in <u>Swinoujscie (Poland)</u>





Hybrid Conflict and Critical Energy Infrastructure: the Case of Ukraine

Based on Ukrainian experience, to deliver an analytical study for NATO and partner countries to build resilience in energy sector (2015-2016):

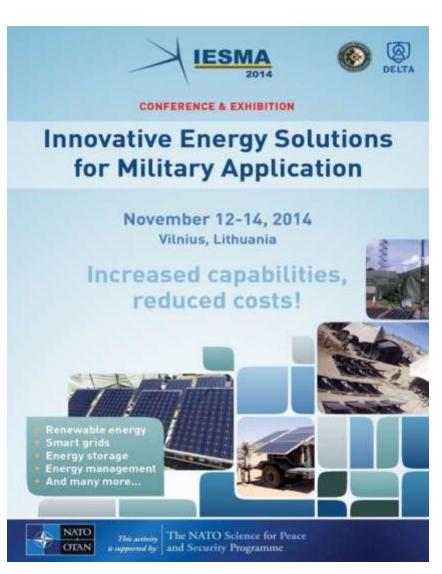
- Study is on military/terrorist threat (& hybrid warfare) on energy infrastructure;
- Based on Ukrainian experience, to work out a case study with a conceptual approach how to build resilience in energy sector.

3. Enhance Energy Efficiency in the Military

- Industry exhibitions "Innovative Energy Solution for Military Applications" (IESMA), Nov 2014;
- > SENT/CL 15;
- > Energy management in the military DFI;
- > Cultural change.
- Canadian financed project on innovative power generation deployable system for EX/OPS;
- Contribution to the APs/Doctrines' development;

Conference & Exhibition IESMA

- **Conference & Exhibition:**
- 223 participants
- 28 high level speakers
- 41 participants to Governmental Session
- 31 companies in the Exhibition (Including: BAE, THALES, Nexter, Honeywell)
- Keynote Speakers:
 - Ambassador Sorin DUCARU, NATO ASG
 - MGEN Albert HUSNIAUX, Chief NATO Scientist
 - Mr. Oliver Fritz, Director of Policy, OE, DOD US





Geography of the Companies



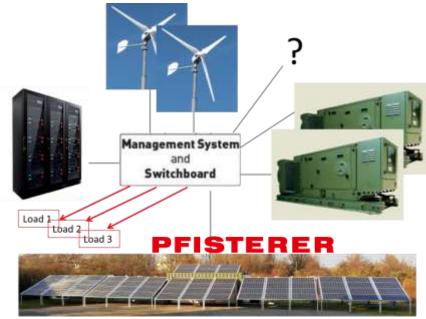
Research, analysis, assessment, experimentation: CANADIAN CONTRIBUTION TO NATO ENSECCOE

Deployable Modular Hybrid Power Generation & Management System

Procurement of Hybrid smart power generation system utilising both conventional and renewable power generation technologies with energy storage and management solutions; by March 2016 the project will be fully implemented and the system will be operational.



Foreign Affairs, Trade and Development Canada







NATO ENSECCOE offers the framework of cooperation on Energy Security subject for our common security

NATO ENSECCOE continues to become a recognized hub of knowledge and expertise IOT support NATO by:

- Enhancing strategic awareness of the security implications of energy developments;
- Supporting the protection of critical energy infrastructure;
- Enhancing energy efficiency in the military.

Energy is like oxygen most people only care about it when they are deprived of it





but often is too late!!

(2009 – 2014) NATO Secretary General Anders Fogh Rasmussen



NATO Energy Security Centre of Excellence

http://enseccoe.org



Thank you



