



CONFERENCE PROGRAMME

CONSULTATION FORUM FOR SUSTAINABLE ENERGY IN THE DEFENCE AND SECURITY SECTOR PHASE II (CF SEDSS II)

2nd Conference 16 & 17 October 2018 (Warsaw, Poland)

Radisson Blu Centrum Hotel
(ul. Grzybowska 24, PL-00132 Warsaw, Poland)

Monday, 15 October 2018 (Day 0)	
19:00 – 20:30	Registration of Participants (hotel lobby)
19:00 – 22:00	Buffet dinner (Hotel Restaurant Ogrodowa -ground floor)

Tuesday, 16 October 2018 (Day 1)	
08:00 – 09:00	Conference Registration (first floor)
1. Opening Plenary Session	
09:00 – 10:10	<p>Introduction</p> <ul style="list-style-type: none">Constantinos Hadjisavvas, Chair CF SEDSS II, European Defence Agency (10 min) <p>Opening Address</p> <ul style="list-style-type: none">Tomasz Zdzikot, Deputy Minister of Defence of Poland (15 min) <p>Sustainable Energy in Defence and Security</p> <ul style="list-style-type: none">Jorge Domecq, Chief Executive, European Defence Agency (15 min)Hans van Steen, Acting Director for Directorate “C” (Renewables, Research and Innovation, Energy Efficiency), DG ENER, European Commission (15 min)Mikołaj Dowgielewicz, European Investment Bank (EIB) Director General and Permanent Representative in Brussels, “The EIB’s Security and Defence Initiative” (15 min)
10:10 – 10:15	Group Photo
10:15 – 10:35	Coffee Break



2. Plenary Session

<p>10:35 - 12:00</p>	<p>Setting the Scene</p> <p>Constantinos Hadjisavvas, Chair CF SEDSS II (5 min)</p> <p>(I) Financing and funding for defence energy-related topics in Europe</p> <ul style="list-style-type: none">• EDA Ad-hoc Project Generation Platform Giorgos Dimitriou, EDA Project Officer R&T Projects Portfolio (15 min)• EDA's 'European Funding Gateway for Defence' (EDF, ESIF, LIFE, COSME, etc.), "IdentiFunding for Energy" & CF SEDSS II projects Prof Dr Pierre Di Toro, EDA Policy Officer EU Policies – Access to EU Funding (20 min)• A Role for the Energy Performance Contracting in the Public Sector Fergus Sharkey, Programme Manager, Sustainable Energy Authority of Ireland (15 min) <p>(II) National Policies in Energy, Best Practices and Energy Data</p> <ul style="list-style-type: none">• The Netherlands Defence Energy Policy: procedures, best practices & benefits Maarten Gijsbers, NL MOD, Strategic Advisor Energy & Environment (15 min)• EU MODs Energy Data Analysis Nektarios Alexandris, EDA Project Officer Energy & Environment – REACH (15 min)
<p>12:00 – 13:00</p>	<p>Lunch – Networking (Restaurant Ogrodowa)</p>



3. Parallel Sessions - Working Groups

13:00 – 15:00	WG 1 Energy Management including Energy Efficiency		WG 2 Renewable Energy Sources and Technologies	WG 3 Protection of Critical Energy Infrastructure
	Team leader: Nektarios Alexandris (EDA)		Team leader: Richard Brewin (EDA)	Team leader: Ioannis Chatzalexandris (EL)
	Sub-WG1 Energy Management	Sub-WG2 Energy Efficiency		
	Moderator: - Gintaras Labutis (LT)	Moderators: - Ray Dickinson (UK) - David Martin Borreguero (ES)	Moderator: - Jim Burke (IE)	Moderators: - Nicholas Kyriakides (CY) - Carmelo Maricchiolo (IT)
	DG ENER: - Claudia Canevari	DG ENER: - Claudia Canevari	DG ENER: - Claudia Canevari - Henrik Dam	DG ENER: - Claudia Canevari - Anna Samsel
	EASME: - Janna Schonfeld	EASME: - Massimo Maraziti		
	1. Opening remarks (20 min) - Moderators - Tour de Table - Agenda of WG 1		1. Opening remarks (20 min) - Moderators - Tour de Table - Agenda of WG 2	1. Opening remarks (15 min) - Moderators - Tour de Table - Agenda of WG 3
	2. Recap of the 1st conference in Tallinn, EE (20/21 Mar 2018) (20 min) Dr. Gintaras Laboutis (LT MoD) and David Martin Borreguero (ES MoD)		2. Recap of the 1st conference in Tallinn, EE (20/21 Mar 18) (20 min) Team leader & Moderator	2. Recap of the 1st conference in Tallinn, EE (20/21 Mar 18) (20 min) Team leader & Moderators
	<u>Financial Mechanisms and Opportunities for Defence-Related Topics</u>		3. Renewable Electricity for Public Bodies – Potential Contracting and Project Approaches (30 min) Fergus Sharkey Programme Manager Sustainable Energy Authority of Ireland	3. WG 3 PCEI Work Plan (20 min) -Objectives, Deliverables & Expectations Team leader & Moderators
	3. European Funding Mechanisms (EDF, ESIF, LIFE, ERASMUS+, H2020, etc.) (20 min) Pierre Di Toro (EDA)			4. Critical Infrastructure Resiliency and Security Management (CI-RSM) (20 min) Luisa Franchina (IT Eng, President of Italian Association of Experts on Critical Infrastructures)



	<p>4. Access to European Funding for Defence energy-related projects (20 min) - exchange of views with Pierre Di Toro (EDA) and Patrice Lefeu (Ernst &Young)</p> <p>5. EIB financing opportunities (20 min) - exchange of views with Oliver Cusworth (Policy Advisor, EIB) & Massimo Merighi (Senior Energy Specialist, EIB) and Fabio Liberti (EDA)</p> <p>6. Energy Efficiency Financial Institutions Group (EEFIG) De-risking Energy Efficiency Platform & Underwriting Toolkit (20 min) Peter Sweatman (Climate Strategy & Partners)</p>	<p>4. RES Project Development (20 min) - Overarching matters</p> <p>5. Project Development on Defence Land (30 min) Alden Lee (ABO Wind AG)</p>	<p>5. The European Critical Infrastructures Directive and other relevant legislation - implications on the defence sector (20 min) Anna Samsel (DG ENER)</p> <p>6. From PCEI Conceptual Paper to PCEI Guidance/ Strategy (25 min) - Proposed contents - Timelines & allocation of roles Ioannis Chatzialexandris (EL), Denis Čaleta (SI) and Dr. Alexandru Georgescu (National Institute for Research and Development in Informatics, RO)</p>
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15:00 – 15:30 Coffee Break

4. Parallel Sessions

	WG 1 Energy Management including Energy Efficiency		WG 2 Renewable Energy Sources and Technologies	WG 3 Protection of Critical Energy Infrastructure
	Sub-WG1 Energy Management	Sub-WG2 Energy Efficiency		
15:30 – 17:30	<p><u>Financial Mechanisms and Opportunities for Defence-Related Topics</u> (cont.)</p> <p>7a. Exploitation of External Funding Mechanisms to Increase Energy Performance in Defence Context – Analysis of the MoDs’ Replies to the Questionnaire (30 min) Nektarios Alexandris, EDA</p>	<p><u>Renovation Roadmaps</u></p> <p>7b. iBroad Project (30 min) Alexander Deligiannis & Marianna Papaglastra (Sympraxis Team)</p>	<p>6. Access to European Funding for Defence energy-related projects (30 min) - Exchange views with Pierre Di Toro (EDA) and Patrice Lefeu (Ernst &Young).</p> <p>7. EIB financing opportunities (30 min) - exchange of views with Oliver Cusworth (Policy Advisor, EIB) & Massimo Merighi (Senior Energy Specialist, EIB) and Fabio Liberti (EDA)</p>	<p>7. The military role in critical infrastructure protection - opportunities and challenges (15 min) Dr Alexandru Georgescu (RO)</p> <p>8. Guidelines on the Protection of Defence-Related Critical Energy Infrastructure against Hybrid Threats (25 min) - Scope & proposed contents - Timelines & allocation of roles Dr Georgios Giannopoulos (JRC) and Constantinos Hadjisavvas (EDA)</p>



	<p>8a. EL MoD Approach to External Funding (30 min) Lt. Col. Christos Papageorgiou (EL MoD)</p> <p>9a. Workshop and roundtable discussion: MoDs' challenges on funding energy efficiency projects (internally and externally) and how to tackle them (60 min)</p>	<p>8b. Transition Zero Project (30 min) Kore Mason (Energiesprong UK)</p> <p>9b. Renovation Strategies - Analysis of the MoDs' Replies to the Questionnaire (10 min) David Martin Borreguero (ES MoD)</p> <p>10b. Roundtable discussion: defence sector experience and economics of renovation roadmaps and deep renovations to NZEB / Net Zero Energy Standards (50 min)</p>	<p>8. Project Proposal (I) "Energy self-sufficiency of military bases" (40 min) FR MOD (Lead MS)</p> <p>9. Project Proposal (II) "Develop a RES feasibility tool-kit" (20 min) Team leader & Moderator</p>	<p>9.1 Best Practices Towards the Establishment of Resilient Critical Energy Infrastructures for European Defence</p> <p>Part I (15 min) Dr. Christian Bergins Mitsubishi Hitachi Power Systems (MHPS)</p> <p>Part II (10 min) Maximilian Scheunemann (IABG)</p> <p>10. Use Cases for Distributed Ledger and Blockchain Technologies for Enhancing Protection and Resilience of Critical Energy Infrastructures for European Defence (BED) (15 min) Prof Athanasios Konstandopoulos (CERTH)</p> <p>11. Defending European Energy Critical Infrastructure – DEFENDER (20 min) Dr. Massimo Bertoncini (Engineering - Ingegneria Informatica SPA, Italy)</p> <p>12. Protection of oil & gas Storage Facilities – best practices (25 min) Yiannos Lakkotrypis (CEO Vasiliko Terminal Services) and George Papanastasiou (Managing Director VTT Vasiliko)</p>
End of first day				
17:45 – 18:15	EU Member States MODs National Contact Points (NCPs) Meeting			
19:30 - 22:30	Hosted Dinner by the PL Ministry of Defence (Royal Castle)			



Wednesday, 17 October 2018 (Day 2)

5. Parallel Sessions

	WG 1 Energy Management including Energy Efficiency		WG 2 Renewable Energy Sources and Technologies	WG 3 Protection of Critical Energy Infrastructure
	Sub-WG1 Energy Management	Sub-WG2 Energy Efficiency		
09:00 – 10:30	<u>Energy Data</u>	<u>Energy Metering & Data Collection Framework</u>	<p>10. Project Proposal (III) “Defence RESilience Hub Network in Europe – RESHUB” (45 min) Col Robert Šipec (SI MOD) and Aleksander Gerbec (Ecubes)</p> <p>11. Project Proposal (IV) “Energy Storage” (45 min) Team leader / Moderator with Pedro Guedes de Campos (Fuel Cells & Hydrogen Joint Undertaking), Jean-Emmanuel Boucher (POWIDIAN), and Ilaria Rosso (EPS ELVI ENERGY)</p>	<p>13. PCEI Project development ideas for 2018 (projects scope, roles & timelines)</p> <p>13.1 Formulation of standard procedure to estimate the dependency of large and complex civilian and military assets with regard to public services (20 min) Vittorio Rosato (Prof Eng. Head, Laboratory for the Analysis and Protection of Critical Infrastructures - ENEA Casaccia Research Centre) & Francesco Fiore (Maj Eng, Energy Security Section Head - IT MoD Energy Task Force)</p> <p>13.2. Risk management through enhanced situation awareness for the detection and mitigation of combined cyber- physical – hybrid threats (20 min) CY Lead</p> <p>14. PCEI Project development ideas for 2019 (projects scope, roles & timelines)</p>
	<p>10a. Energy Data in Defence Context – Analysis of the MoDs’ Replies to the Questionnaire (15 min) Nektarios Alexandris (EDA)</p> <p>11a. DE MoD Case Study on Energy Data Collection & Analysis (15 min) Horst Zils (DE MoD) and Claus Biedermann (EBCsoft GmbH)</p> <p>12a. Workshop and roundtable discussion: challenges on energy data gathering (60 min)</p>	<p>11b. AT MoD Real Estate Energy Data Project Update (30 min) Helmut Weinhardt (AT MoD)</p> <p>12b. Workshop and roundtable discussion: defence sector experience and economics of meter data and energy management system (60 min)</p>		



				<p>14.1 Establishing the energy autonomy and resilience of the defence sector through the sustainable development and collaboration with the civilian sector (20 min) FI & FR (Lead)</p> <p>14.2. Development of a decision support system (10 min) Moderators</p> <p>14.3. Military Camp Study (15 min) IE (Lead)</p> <p>14.4. New Project idea (5 min)</p>
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10:30 -11:00	Coffee Break			
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6. Parallel Sessions

	WG 1 Energy Management including Energy Efficiency		WG 2 Renewable Energy Sources and Technologies	WG 3 Protection of Critical Energy Infrastructure
	Sub-WG1 Energy Management	Sub-WG2 Energy Efficiency		
	11:00 -12:30	<p><u>Energy Modelling</u></p> <p>13a. Energy Performance Indicators and Modelling in IE Defence Forces (15 min) Cpt. Eoghan Carton (IE MoD)</p>	<p><u>Energy Metering & Data Collection</u></p> <p>13b. New Technologies on Energy Smart Metering - Non-intrusive Smart Metering (30 min) Charles Gourio, Smart Impulse</p>	<p>12. Enabling Mechanisms Team leader / Moderator</p> <p>- Review RES Questionnaire (45 min)</p> <p>- Review RES Matrix Tool Results (45 min)</p>



	<p>14a. Workshop and roundtable discussion: which are the most suitable EnPIs for defence-related activities? Challenges and how to tackle them (30 min)</p> <p>15a. Energy Modelling for the EU Reference Scenario: is transposition to Defence feasible? (15 min) Theofano Fotiou (National Technical University of Athens)</p> <p>16a. Workshop and roundtable discussion: challenges on energy modelling in defence context and how to tackle them (30 min)</p>	<p>14b. Workshop and roundtable discussion: metering strategies for defence bases (60 min)</p>		<p>Pierre Di Toro (EDA) and Patrice Lefeu (Ernst &Young).</p> <p>17. EIB financing opportunities (25 min) - exchange of views with Oliver Cusworth (Policy Advisor, EIB) & Massimo Merighi (Senior Energy Specialist, EIB) and Fabio Liberti (EDA)</p> <p>18. Pilot: EDA Ad-hoc Project Generation Simulation (20 min) Giorgos Dimitriou (EDA)</p>
12:30 – 13:30	Buffet Lunch – Networking (Restaurant Ogradowa)			
7. Parallel Sessions				
	Sub-WG1 Energy Management	Sub-WG2 Energy Efficiency	WG 2 Renewable Energy Sources and Technologies	WG 3 Protection of Critical Energy Infrastructure
13:30 – 15:00	<u>WG1 Update on Deliverables</u>		<p>13. RES Themes for CF SEDSS II 3 and 4 conferences (35 min)</p>	<p>19. PCEI Questionnaire, WG3 CI Directive Tool & Rev. Guidance doc. (25 min)</p> <p>Team Leader & Moderators</p>
	<p>17. Development of Collaborative Project Proposals Enhancing Energy Efficiency – Info-sheets (50 min)</p>			



	18. WG1 Themes for CF SEDSS II 3rd – 4th conferences (20 min)		20. Adoption of the PCEI Work Plan (20 min) - Roles & timelines 21. PCEI agenda items for CF SEDSS II 3 and 4 conferences (10 min)
	19. Summary / Closing remarks Outcomes for the plenary session (15 min) 20. AOB (5 min)	14. Summary / Closing remarks Outcomes for the plenary session (50 min) 15. AOB (5 min)	22. Summary /Closing remarks Outcomes for the plenary session (30 min) 23. AOB (5 min)
15:00 – 15:20	Coffee Break		
8. Closing Plenary Meeting			
15:20 – 16:00	Presentations <ul style="list-style-type: none"> • Renewable Energy Sector in Poland Andrzej Kaźmierski, Director of Department of Renewable and Dispersed Energy, PL Ministry of Energy (20 min) • Challenges with data and models in decentralized energy grids Prof. Dr. Holger Ziekow, Furtwangen University (20 min) 		
16:00 – 16:15	Break		
16:15 – 17:30	Working Group Session: outcome/way ahead presentation <ul style="list-style-type: none"> • WG 1 Team Leader/Moderator (20 min) • WG 2 Team Leader/Moderator (15 min) • WG 3 Team Leader/Moderator (15 min) Chair CF SEDSS II, Constantinos Hadjisavvas (15 min) <ul style="list-style-type: none"> • State of Play & Way Ahead • Administrative Information • Next Conference Closing Address <ul style="list-style-type: none"> • Denis Roger, Director European Synergies and Innovation, European Defence Agency (10 min) 		
<i>End of Conference</i>			
17:45 – 18:30	EU Member States MODs National Contact Points (NCPs) Meeting		
19:00 – 22:00	Buffet dinner (Restaurant Ogrodowa)		