European Security and Defence College

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Curriculum

To be reviewed by *February 2027*	Activity number ***59***	**Energy Security**	**ECTS** **2**
CORRELATION WITH CTG/MTG TRAs			EQUIVALENCES
Civilian training area no 6: environmental management and climate change			NA

Target audience

Participants should preferably be involved in the planning, implementation or management of CSDP missins and operations or in EU Commission projects.

Priority is given to:
- Personnel from EU MS that are or will be taking part in energy security, climate resilience and sustainability policy development and implementation at national or EU level (such as EEAS/EUMS, DG ECHO, DG CLIMA, DG ENV, DG NEAR, DG INTPA level (including EU Delegations), EDA).
- Personnel involved in climate and environment mainstreaming efforts.
- Education and training experts, faculty advisers, professors, consultants, analysts, etc.

Open to participants from:
- EU MS
- EU Candidate countries
- EU Institutions, agencies, and bodies
- Third countries
- Members of International Organisations
- Members of Non-governmental Organisations

Aim

The course provides a thorough understanding of Energy Security as a concept, its overarching principles and objectives predominantly within the EU Integrated approach. It aims at enhancing participants' understanding of relevant frameworks, current energy developments and vulnerabilities related to the EU's energy security agenda and the EU's approach to the climate-energy-defence nexus.

The course will provide elements and raise awareness that, combined with the existing experience of the participants, would enable them to deepen their skills, knowledge and competences as described in the learning outcomes."

LEARNING OUTCOMES	
Knowledge	LO.1. Understand the EU's strategies and policies for energy security, including the European Green Deal, REPowerEU initiatives, and the role of energy efficiency in securing supply chains. LO.2. Identify vulnerabilities in energy systems, including cyber risks, geopolitical pressures, and climate-related risks. LO.3. Analyse the integration of renewable energy, sustainable fuels, and nuclear energy into crisis management strategies. LO.4. Assess the intersection of climate security and energy security, focusing on practical applications.
Skills	LO.1. Develop strategic approaches to prevent and respond to energy disruptions, integrating energy efficiency measures. LO.2. Utilize tools for risk assessment, scenario planning, and hybrid threat mitigation specific to energy crises. LO.3. Apply case study analysis to past energy crises and security challenges, identifying lessons learned. LO.4. Foster inter-agency and international cooperation in securing energy infrastructure, incorporating climate security risks.
Responsibility and autonomy	LO.1. Be able to critically evaluate the effectiveness of EU mechanisms in addressing energy security and climate security challenges. LO.2. Be able to design resilient energy security strategies in response to hybrid and environmental threats. LO.3. Be able to coordinate multi-stakeholder crisis responses involving energy infrastructure protection. LO.4. Be able to integrate gender and inclusion perspectives into energy security planning and response.

Evaluation and verification of learning outcomes

The course is evaluated according to the Kirkpatrick model: it makes use of *level 1 evaluation* (*based on participants' satisfaction with the course*).

In order to complete the course, participants have to accomplish all learning objectives, which are evaluated on the basis of: active contribution in the residential module, including the syndicate session and practical activities, and completion of the eLearning phases. Course participants must complete the autonomous knowledge units (AKUs) and pass the test (*mandatory*)), scoring at least 80 % in the incorporated test/quiz. Active observation by the course director/lead instructor is used and participants fill in a feedback questionnaire at the end of the course.

However, no formal verification of learning outcomes is foreseen; the proposed European credit transfer system (ECTS) score is based on participants' workload only.

COURSE STRUCTURE		
Main topic	**Recommended Working Hours (of which eLearning**	**Contents**
1. The EU's Energy Security Framework	10 (3 eLearning)	1.1 Overview of EU energy policies, including energy efficiency measures under the European Green Deal and REPowerEU. 1.2 Case studies on past energy crises and response strategies.
2. Geopolitical and Hybrid Threats to Energy and Climate Security	12 (4 eLearning)	2.1 Energy dependencies and supply chain vulnerabilities, cyber and hybrid threats to energy infrastructure, climate-related risks to energy security 2.2 EU-NATO partnerships

3. Renewable Energy and Crisis Resilience	8 (2 eLearning)	3.1 Integrating renewables, sustainable and e-fuels into crisis management. 3.2 Nuclear energy as part of the EU's Sustainable Finance Taxonomy: risks and opportunities.
4. Climate Security and Energy Resilience	6 (2 eLearning)	4.1 Climate change as a multiplier of energy security threats 4.2 Adaptation strategies and risk assessment tools for climate and energy resilience
5. Simulation Exercise: Crisis Response in Energy Security	14 (3 eLearning)	Scenario-based crisis response simulation. Syndicate session: developing energy security action plans. Decision-making exercises with stakeholder coordination.
6. Gender and Inclusion in Energy Security	4 (1 eLearning)	Applying gender and diversity perspectives in energy security planning. Inclusivity in energy-related crisis responses.
TOTAL	**54 (eLearning 15)**	

<u>Materials</u>

<u>Required eLearning</u>:
AKU 9: The Security Implications of Climate Change, Environmental Degradation and Exploitation
Modules on energy policy, hybrid threats, and renewable energy integration
AKUX[1] – Energy Security and Resilience in the Context of CFSP/CSDP: Covers hybrid threats, critical energy infrastructure protection, and EU strategic responses

<u>Reading materials:</u>
- Council Conclusions on Green Diplomacy (2024)
- Joint Communication on the Climate and Security Nexus (JOIN(2023) 19 final)
- Council Conclusions on Climate and Energy Diplomacy (2023)
- Joint Communication on EU external energy engagement in a changing world (2022)
- REPowerEU strategies (2022)
- Communication on the European Green Deal (2019)

<u>Further reading</u>
- EU energy policy documents, case studies, and reports on energy resilience.

The materials proposed will reflect current developments in the field of the climate-security nexus in general and EU policies in particular. Mandates of CSDP missions and operations and/or EU Commission programmes should be included where relevant, as well as other documents from the EEAS, the EU Council Secretariat and the EU Commission.

<u>Methodology</u>

The course is based on the following methodology: lectures, panels, group work, and interactive exercises, using case studies, tools and scenario-based simulations.

<u>Additional information</u>

A pre-course questionnaire on learning expectations and reading materials may be sent to participants before the beginning of the course.

All course participants must prepare for the residential module completing the relevant e-Learning preparatory phase, which is mandatory.

The course should create space for participants to share experiences and draw on personal lessons learnt and good practices in an inclusive way.

In order to facilitate discussion between course participants and trainers/experts/guest speakers, the **Chatham House Rule** is used during the residential module: 'participants in the course are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed'**.**

[1] To be developed.