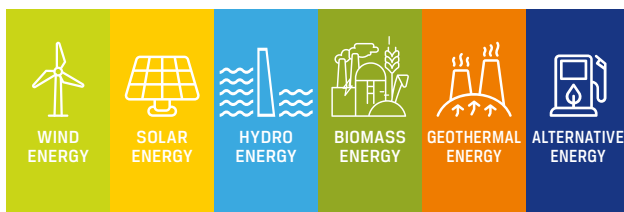




## Working Group 2 – Renewable Energy Sources

### What

As one of the four working groups of the fourth phase of the Consultation Forum for Sustainable Energy in the Defence and Security Sector (CF SEDSS IV), **Working Group 2 (WG-2) on renewable energy sources (RES)** provides guidance on **advancing the use of RES within the defence sector.**



The working group will identify the opportunities that derive from renewable energy sources and storage, in particular the application of the amended **Renewable Energy Directive (RED)** and other relevant directives. It will also explore means and ways for the defence sector to:

- reduce energy dependence on fossil fuels;
- increase energy efficiency while improving operational effectiveness;
- lower energy costs while minimising environmental impact;
- contribute to European and national energy security;
- improve energy autonomy of the defence sector.

### How

To support the production of energy from renewable sources in the EU, WG-2 will pursue the following objectives:



**Explore** RES frameworks at the EU/national level, including appropriate procurement procedures, processes, funding mechanisms and consideration of energy performance contracting (EPC).



**Explore** how RES can contribute to securing energy strategic autonomy for the European defence and security sector.



**Examine** feasibility of applying existing and emerging RES technologies across national defence sectors.



**Address** the financial delivery and technical aspects of deploying renewable energy in the defence context.



**Address** the topics of fuels and mobility with the support of the civilian counterparts in the concerted actions on RES.



**Increase** RES awareness and skills within armed forces to enhance operational effectiveness.



**Support** the MoDs to develop RES strategy, policy or action plans by considering the Renewable Energy Directive.



**Develop** guidelines for raising awareness and increase knowledge of the significance of the integration of RES in the EU defence sector.



**Develop** an implementation plan for RES in the defence sector.



**Generate** defence energy-related projects/best practices; including dual-use synergies within the defence and civilian markets (8 information sheets).

In this context, members of WG-2 will also work to promote the use of defence lands for **renewable energy generation, energy conversion, and energy storage while also continuing to address** a range of topics arising from Phase III. These include hydrogen applications, heating, and cooling, procurement approaches such as power purchase agreements (PPA), and measures to enhance energy resilience and advance decarbonisation such as islanding, microgrids, and on-site generation. Below is a brief overview of the output of WG-2 over the lifetime of the CF SEDSS

since 2015, progressing from a general survey of the issues in Phase I to niche nationally-based project ideas in Phase II, such as defence resilience hub network in Europe (RESHUB), and energy self-sufficient resilient military base (ENSSURE), and then to more detailed consideration of viable RES approaches in Phase III.

## WG2 TOPICS THROUGH PHASES



- Solar PV
- Defence lands
- Hybrid power
- Alternative and synthetic fuels



- RES tool-kit
- EPC and RES
- RESHUB
- ENSSURE



- RED II implementation
- Decarbonisation
- Islanding projects
- H2 for heavy vehicles
- PPA for RES implementation
- Heating and cooling
- H2 applications for defence
- Onsite generation and storage

## Deliverables

WG-2 will produce the following **deliverables** during Phase IV of the Forum:



8 DEFENCE  
ENERGY-RELATED  
PROJECT IDEAS



1 DEFENCE  
ENERGY-RELATED  
RESEARCH STUDY



REVISION OF THE  
GUIDANCE DOCUMENT  
ON ADVANCING  
SUSTAINABLE ENERGY  
IN DEFENCE

These will assist ministries of defence (MoDs) in achieving **their sustainable energy objectives** and thus contribute to the **EU's long-term ambition of climate neutrality by 2050**. They may include guidance on procurement, and funding or financing opportunities to enable collaborative projects.

## Events

WG-2 will contribute to a number of events running **from October 2024 to September 2028**, including six plenary conferences, two energy technology solutions conferences, at least two ad-hoc expert group meetings, and the RES component of a table-top exercise.



6 PLENARY CONFERENCES INCLUDING  
2 BACK-TO-BACK ENERGY TECHNOLOGY  
SOLUTIONS CONFERENCES



1 TABLETOP  
EXERCISE



10 AD-HOC EXPERT  
GROUP MEETINGS



8 MODERATORS  
COORDINATION  
MEETINGS

These events will allow WG-2 to address RES considerations impacting the defence sector and will enable MoDs to benefit from the insights of experts from industry, academia, and research and technology organisations. The meetings will also facilitate the exchange of information and best practices by MoDs.

## Impact

WG-2 deliverables will capture renewable energy options for the defence sector, both nationally and in collaboration with other MoDs. This may contribute to the development of practical projects and the employment of innovative processes, such as **energy contracting processes, renewable energy harvesting, hydrogen (H2) applications, and other energy storage capabilities and technologies**. Ultimately, the use of RES will contribute significantly to the EU achieving its energy and climate goals. By using energy more efficiently and thereby consuming less, MoDs can **lower their energy costs, increase energy resilience, reduce reliance on external suppliers** of oil and gas, and **reduce carbon emissions**.

## About CF SEDSS

CF SEDSS is a **European Commission initiative managed by the European Defence Agency (EDA)**, in collaboration with the European Commission Directorate-General for Energy (DG ENER) and the Climate, Infrastructure and Environment Executive Agency (CINEA). The fourth phase, which has a duration of 4 years expiring on 30 September 2028, is co-funded by the European Union's **LIFE Clean Energy Transition sub-programme** under the Grant Agreement No. 101191127 and the EDA.

For additional  
information  
visit our [website](#):

