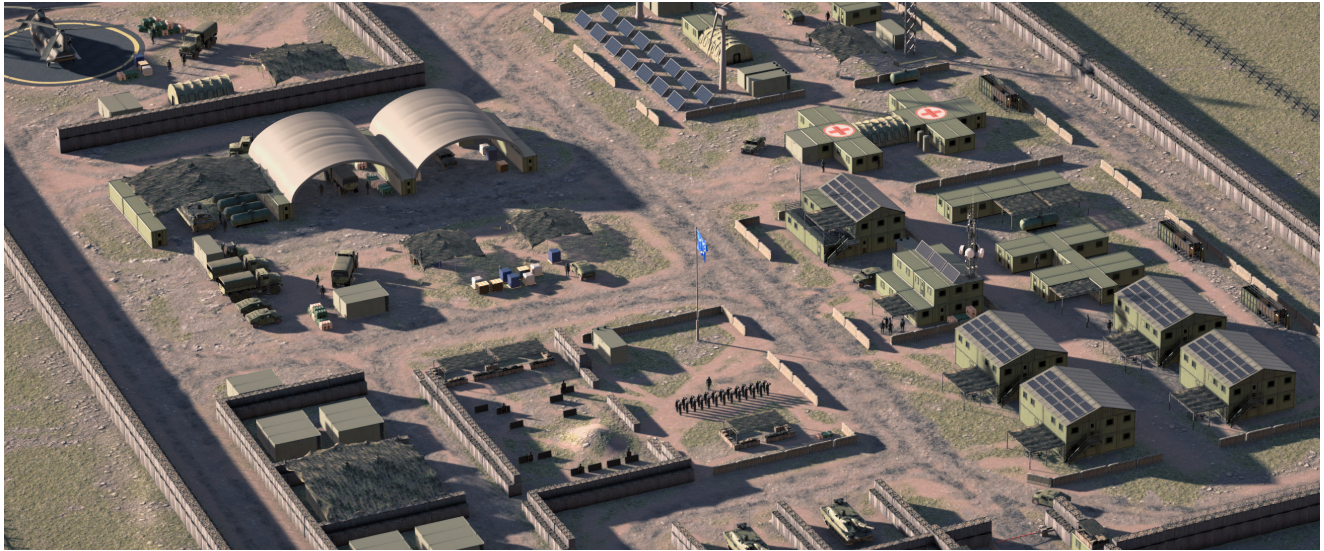


Leading the way: among the first EU projects tackling green energy in the military sector



Challenging the status quo: military energy needs in the age of sustainability

Currently, deployable military camps are almost 100% dependent on fossil fuel. This not only means that the environmental footprint is high, but it also represents a weak point and vulnerability for the armed forces in terms of logistics and dependence on fossil fuels. This is becoming even more challenging given the growing need of energy for the military equipment.



The INDY project will be the first step on the path to increase the security of energy supply and autonomy of deployable military camps and support their full transition towards implementation of renewable energy sources with the use of new disruptive technologies and solutions. The roadmap shall seek to reduce the usage of fossil fuel by 40% in 2030 compared to the present situation and to reach 100% fossil fuel independency in 2050.



INDY objectives

	Objective	2030	2050
FOSSIL FUEL	for the camp & operations	40% reduction	100% reduction
ENERGY EFFICIENCY	Energy saving	20% energy saved	30% energy saved
ENERGY AUTONOMY	of the camp	35% autonomous	70% autonomous
	of the operations	10% autonomous	30% autonomous
FUEL LOGISTIC	for the camp	35% reduction	70% reduction
	of the operations	10% reduction	30% reduction



From green deal to green defence: roadmap

- Roadmap 2030–50 for energy independent and energy efficient systems for deployable military camps.
- Adaptable modular energy system architectures to be demonstrated in 4 different climate areas.
- A new approach to energy production, conversion, storage, transport, distribution and final usage.
- Methods for joint interallied approach to interoperability, security, risk, cyber protection and life cycle.
- Tools for planning, simulation, optimal control and camp energy management digitalisation with trainings.
- Dual-use technologies research for transfer of civil solutions to defence use applications.



ENERGY GENERATION



ENERGY CONVERSION



STORAGE



TRANSPORTATION



DISTRIBUTION



CONTROL & MANAGEMENT



CONSUMPTION



Operational scenario sketches

Arctic	Temperate	Desert	Tropical
<p>A compact Joint Expeditionary Force, mainly light infantry, is stationed in a basic, temporary camp north of the Arctic Circle.</p>	<p>A reinforced battalion with medium to heavy forces, including helicopters, is accommodated in a fully-fledged field camp, with a Role 3 field hospital around existing fixed military infrastructure.</p>	<p>A multinational force conducts a stabilization mission in a hot desert region, using a camp with tents, containers, AC, and initial PV capacity.</p>	<p>A multinational contingent of predominantly specialized forces has been detached to a tropical region in a peacekeeping mission.</p>



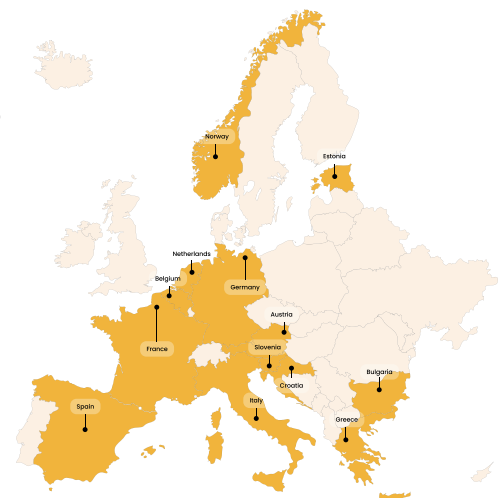
Partners

Project consortium and countries involved

- 31 PARTNERS from 13 EU and associated countries

Ministries of Defence involved (MoDs):

- 9 signed the Letter of Intent, also members of the INDY End-User Advisory Board (EAB),
- 3 signed the Letter of Support.



Contacts

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