Climate and defence - from conflict of goals to synergies

Two of the most pressing societal challenges of our time are **the climate issue and the national defence capability**. The climate transition requires increased access to electricity and new large-scale electricity production is predicted to consist largely of offshore wind power. Today, defence interests and energy interests are perceived to be at odds with each other, among other things because existing radar systems can be hindered by additional wind power. Historical data[1] shows that the Swedish Armed Forces rejected 89% of applications for offshore wind power in Sweden during 2017–2022. The situation is similar in several countries.

Elevated Launch's business concept is to **turn the conflict of objectives between the wind power industry and the armed forces into a synergy** by offering technical solutions and services that make defence interests and wind power coexist and benefit from each other.

Elevated Launch has a portfolio of **patented/patent-pending innovations** regarding integration of defence systems in wind power plants, exploiting the inherent advantage of wind power plants such as advanced and elevated position, electric power supply and communication system.

Through these solutions, the deadlock that currently exists between the expansion of offshore wind power and the interests of the armed forces can be opened up, and offshore wind power can even be turned into a strategic asset for the armed forces.

In dialogue with stakeholders from the defence sector and the wind power industry, Elevated Launch has identified **the need for a security-classified intermediary** between the wind power industry and the armed forces.

Such a business model can create value for the wind power industry by reducing risk, time and costs in the permitting process. The business model can create value for the armed forces by contributing to a cost-effective capability enhancement and by gathering and structuring the dialogue with the wind power industry through a security-classified party.

The role sought by Elevated Launch is to become a **system supplier and intermediary** in the dialogue between wind power developers and the armed forces during the permit process, by providing technical solutions and conveying the armed forces directives to the wind power developers without disclosing defense secrets.

The innovations included in Elevated Launch's portfolio of patents applied for or granted are:

- Sensors and electronic warfare systems
- Unmanned Aerial Vehicle (UAV)
- Unmanned Underwater Vehicle (UUV) (off shore wind power)
- Defensive weapon systems

The applications that are most attractive (sensors/electronic warfare, UAV, UUV) are also the easiest to implement and have the lowest technical risk.

The next step is a demonstration to show that the concepts work in practice, are sufficiently robust and can deliver the desired benefits. Selection of location(s) will be made after the demonstration is defined.

Effects of Elevated Launch's innovations			
Society	**Armed forces**	**Wind power industry**	**Defence equipment manufacturers**
Conflicting interests between climate and defence are turned into synergies. Electricity to drive the industrial transition and electrification of the transport system to net zero. Improving energy security and independence.	Improved defensive capabilities with a new line of defense. Lower costs due to shared use of infrastructure in strategic positions. Enables a simplified and constructive dialogue with the wind power industry.	Reduces risk, cost and time spent in permitting processes. Possibility of getting conditional permits in strategic defence areas. Possible sidestream revenues and new business models.	Increased sales as part of the Elevated Launch technical platform. Improved performance of products. Improved cost-effectiveness of the products

[1] Forsvarsmakten-och-havsbaserad-vindkraft-final.pdf (svenskvindenergi.org)