

SWOT analysis – North sea

Main results / outcomes

The **North sea pilot** located in Norway will obtain pelleted and liquid fertilizer by bokashi fermentation of fish sludge. Only 3.3% of the total land in Norway is farmland, the main crops produced are barley, oats, and wheat. In 2018 Norway was reported the world's seventh-largest aquaculture fish producer in the world, accounting for 80% of the total fishery production in EU-27. **The SWOT analysis** gave an overview of internal and external factors for the North Sea pilot case.

Practical recommendations

The main **strengths** include numerous sustainability and environmental benefits such as enhancing and preserving soil diversity and contributions to GHG emission reduction, widespread applicability and transferability, benefits to the local community, fish industry, and fertilizer producers. **Weaknesses** include acceptance and adoption of the project and project results as well as difficulties associated with the implementation of obtained products, undesirable by-product characteristics, technology implementation, and operation/logistic cost. **Opportunities** include green job creation and generation of income from waste sources, waste reduction and reduction of disposal costs, requirement of better solutions for fish sludge disposal for the breeders. **Threats** include a competitive fertilizer market and competition with other waste-processing technologies, challenging national legislation and restrictions, high market infiltration cost, and difficulties in harmonization/standardization of produced fertilizers.



Fig 1: North sea pilot area



Fig 2: North sea (source: [freepik.com](https://www.freepik.com))

Further information

The North Sea Area case - <https://sea2landproject.eu/north-sea-area-case/>

About this abstract

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SEA2LAND project is a collaborative Innovation Action (IA) funded by the EU in the frame of the Horizon 2020 programme. The project aims to provide solutions to help overcome challenges related to food production, climate change and waste reuse. Based on the circular economy model, SEA2LAND promotes the production of large-scale fertilisers in the EU from own raw materials. This solution is expected to reduce the soil nutrient imbalance in Europe.

The project is running from January 2021 to December 2024.

Website: www.sea2landproject.eu



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SWOT analiza – Sjeverno more

Glavni rezultati/ishodi

Pilot Sjeverno more nalazi se u Norveškoj će proizvesti peletirano i tekuće gnojivo procesom bokashi fermentacije ribljeg mulja. Samo 3.3% ukupne površine Norveške čine poljoprivredna zemljišta, glavni usjevi su ječam, zob i pšenica. U 2018 Norveška je bila sedmi najveći svjetski proizvođač ribe u akvakulturi, i zaslužna je za 80% ukupnog uzgoja ribe od EU-27. **SWOT analiza** daje pregled unutarnjih i vanjskih čimbenika koji utječu na Sjeverni pilot.

Praktične preporuke

Glavne identificirane **snage** uključuju brojne koristi uključuju brojne koje doprinose održivosti i očuvanju okoliša kao očuvanje i poboljšavanje karakteristika tla i smanjenje emisija stakleničkih plinova, mogućnost široke primjene, benefiti za lokalno stanovništvo, ribarsku industriju i industriju gnojiva. **Slabosti** uključuju prihvaćenost projekta i projektnih rezultata i poteškoće asocirane s implementacijom dobivenih proizvoda, nepoželjne karakteristike nusproizvoda, troškovi implementacije tehnologije i operativni troškovi. **Prilike** uključuju otvaranje novih radnih mjesta i stvaranje izvora prihoda korištenjem nusproizvoda, smanjena količina i troškovi povezani s otpadom, potreba uzgajivača ribe za boljim opcijama zbrinjavanja mulja. **Prijetnje** uključuju konkurentno tržište gnojiva, natjecanje s ostalim tehnologijama uporabe nusproizvoda, izazovi za postojeće EU i nacionalne regulative i legislative, visoki troškovi povezani s prodorom na tržište i problemi s harmonizacijom/standardizacijom proizvedenog gnojiva.



Fig 1: Sjeverno pilot područje



Fig 2: Sjeverno more (source: [freepik.com](https://www.freepik.com))

Dodatne informacije

The North Sea Area case - <https://sea2landproject.eu/north-sea-area-case/>

O ovom sažetku

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SEA2LAND je projekt u sklopu Inovacijske aktivnosti (IA) financiran od strane EU u sklopu Obzor 2020 programa. Cilj projekta je pružiti rješenja koja će pomoći u savladavanju izazova povezanih s proizvodnjom hrane, klimatskim promjenama i uporabom otpada. Na temelju modela kružne ekonomije, SEA2LAND promiče proizvodnju gnojiva u EU iz vlastitih sirovina. Očekivano je da će ovo rješenje smanjiti neuravnoteženost hranivih tvari u tlu.

Projekt traje od siječnja 2021. do prosinca 2024.

Web stranica: www.sea2landproject.eu



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