

Review of: "A Study on Alternative Low-Emission Sustainable Soil Stabilization Techniques in General and Combat Military Operations"

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Potential competing interests: No potential competing interests to declare.

The paper targets the use of natural components in soil consolidation and structure fortification to reduce the energy cost and CO₂ emissions from the use of cement in military structures. However, the same elements can also be used for civil structures in low-stability and earthquake-prone areas.

Several specific comments arise:

1. What is LCA?
2. In Figure 3, explain the signs of erosion in treated sections 2 and 3.
3. In the challenges and future section, can you comment on MICP, biopolymers, and geopolymers' suitability for use in wetlands, lands with high water tables, and lands with periodic inundation?