

Abstract

[Project Information]

Project Title : Development of Future Design in Surrounding Areas Utilizing Local Resources and Environment

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Keywords : Interim Storage Facility for Radioactive Waste、Low-carbon Future Community、Socio-ecological Production Landscape (SEPL)、Community-engaged Reconstruction、Pattern Language Methodology、Regional Integrated Assessment Model (RIAM)、Assessment of Ecosystem Services、Societal Implementation

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Theme 2 focuses on envisioning a decarbonized future community in the Interim Storage Facility and surrounding area, previously a biodiverse satoyama landscape. It incorporates advanced technologies to tackle both regional and global challenges. Sub-theme 1 involves creating future scenarios through dialogue with residents, utilizing pattern language, a community capital framework, and regional integrated assessment models. Sub-theme 2 quantitatively assesses ecosystem services based on biodiversity monitoring and incorporates residents' perceptions to evaluate recovery progress and inform policy materials.

[References]

Ohnishi, S., Osako, M., Nakamura, S., Togawa, T., Kawai, K., Suzuki, A., Yoshida, K., Gomi, Tsuji, T. (2024). A Framework for Analyzing Co-Creation Value Chain Mechanisms in Community-Based Approaches: A Literature Review. *Sustainability*, 16(7), 2919.

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