

Towards SDGs Education with Sustainable System Development for Yushan National Park in Taiwan

Abstract

Sustainable System Development (SSD) is a strategic management method that systematically assists governments, business organizations, and social service organizations in planning and implementing sustainable development actions by using System Dynamics. This paper proposes a government-led case study encompassing systems thinking and strategic architecture to aid in the governance and development of national parks, as well as resilient governance for sustainable development. The project is based on the United Nations advocated Sustainable Development Goals (SDGs) and involves the participation of the public-private partnership in practicing ESG sustainable business development with Yushan National Parks, the highest mountain area and national park in East Asia. We use SSD to develop the strategy maps, plan and integrate public governance and sustainable development policies, and evaluate the behavior over time through the implementation of these policies. After establishing a systematic policy management mechanism, the National Park Administration can extend sustainable development education throughout Yushan National Park and connected cities and communities. This includes implementing ecological education about nature and traditional tribal culture education for Indigenous peoples. By using causal loop diagrams, we demonstrate how Yushan National Park and the public-private partnership can initiate a positive feedback system for sustainable development.

Keywords: Sustainable System Development, Sustainable Development Goals, National Park, Systems thinking, Yushan, Education Innovation, Environmental Education, Cultural Education

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