

從景觀生態地圖之建構探討出磺坑產業地景之活化(Activation of Industrial Landscape of the Chu Hung Keng Oil Field through Constructing a Landscape Ecological Map)

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摘要

The Chu Hung Keng oil field is the first gas and oil field in Taiwan, which is also the second oil field developed in the world. Followed with the reduction in oil production, it induced the come-down of Chu Hung Keng district concurrently. Local government thus planned to reform the oil field as a tourist spot by activating its industrial landscape. However, many improper actions proceeded without surveying local natural and cultural resources. As a result, the integrity of fauna and flora were seriously destroyed. Instead of showing the interdependent relationship or the niche of species, traditional ecological survey only provides a name list of local wildlife, which is actually not practical for environmental planning. In this study, the natural and cultural resources were surveyed and mapped on the topographic map. Subsequently, a landscape ecological map was constructed. It aimed to bring forward a more appropriate land use and management for Chu Hung Keng district with a concept of sustainable management. By taking local natural and cultural resources into account, the industrial landscape could be activated and reused in a more proper manner. Our results suggested that, in order to preserve the subtropical broad-leaved forest and industrial landscape, the Chu Hung Keng oil field should be developed into an ecological and geological park. Furthermore, it could become an excellent place for environmental education and ecotourism.

關鍵字：industrial landscape; sustainable management; carrying capacity; activation and reuse