

# **The Puyan Township of Ecological Landscape Planning in Changhua County**

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## **Abstract**

In the past, Taiwan's rural areas have played the role of important buffer zones for the protection of the natural environment and for the prevention of rapid urban expansion. However, most rural areas have begun to emphasize material production and modernization in recent years, animals and plants have gradually lost their habitats. This has gradually decreased the ecological landscape features for creating a balance with the natural environment; it has gradually ceased to be an ecological buffer. In this planning, Puyan Township of Changhua County is a typical agricultural area. Common sense would assume that it should have abundant natural ecological landscapes, but field observation has shown that this rural area has an overall monotonous ecological landscape, and seriously lacks the ecological landscape and natural curiosities that rural areas should have. This area is in desperate need of ecological landscape management and improvement.

Therefore, this planning aims to conduct an analysis on current conditions of the Puyan Township ecological landscape, using concepts such as landscape ecology, island biogeography, green plant considered ecologically, and ecological engineering. Moreover, it intends to provide strategies on enhancing the Puyan Township ecological landscape, so that its land usage can achieve optimal ecological landscape, life aesthetics, and economic development.

Although this planning cannot bring continuous habitation of animals, it can stabilize the ecological base that should exist in the rural area's natural environment to assist in maintaining biodiversity and sustainability in the future. However, an ecological environment and landscape must be amenable to the habitation conditions of animals and plants, and cannot find a balance or stabilize until there has been long-term interaction, evolution, and changes between the environment and organisms. Thus, in the future, Puyan Township still needs to continuously engaging in engineering design and promoting concepts relating to ecological landscape. It is also necessary to obtain land and construct ecological habitats, corridors, and green networks, so that development of ecological landscape in Puyan Township can also introduce tourism and related industries. This can increase local profits, which can achieve the vision of a sustainable natural and ecological agricultural township.

**Keywords:** Puyan Township, ecological landscape, green plant considered ecologically