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Innovation research on eco-planning of Heilongjiang coal-exhausted town subsidence area

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Keywords: Coal exhaustion Special land Subsidence area Gangue mountain Gob area

Abstract. Because of its special development, Heilongjiang coal city have problems of city decline and marginalized, which directly affects the whole function of urban space, one of the most prominent problems is the deterioration of subsidence area. At present, the coal town subsidence area ecological restoration and reconstruction is coal town planning research hot spot. The article based on the resource exhaustion town theory as a foundation, to Heilongjiang coal town subsidence area, as empirical research object, through the depth of subsidence area problems and hazard analysis, puts forward subsidence development pattern and countermeasures. Through the thinking of coal town special land ecological adjustment of spatial structure, it clarifies the feasibility of coal optimization idea, for cold coal town subsidence area development to provide certain reference.

Introduction

Because of urban artificial ecosystem complexity and uncertainty factors, it often causes some urban ecological opposition problems. For example, in the same conditions, urban development priority vs. ecological target priority, old industrial land properties before or after its move, the dual structure after transformation of villages inside cities, urban construction land or the construction land use planning etc. these problems need to be solved in the ecological planning. Opposite problems, mean the same condition to realize two or multi objective that it can't be realized [1]. The paper attempts to use the transforming bridge of Euthenics strategy method to solve the opposite problems of the urban ecological planning, by establishing its model, target problems, extension analysis, solve the urban ecological planning opposite problem, and achieve the urban ecological, economic and social sustainable development.

Coal town subsided area problems

Subsided area overview Subsidence area is the left sinking area after Coal mining. It Have adverse influence on urban space structure. Wherever to sink, make the original smooth land to become rugged, and ravines, and river system, road, irrigation and water conservancy infrastructure, etc have been severely disrupted [1]. It is shown in Fig.1.

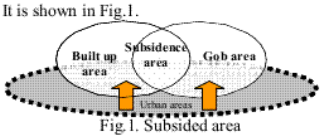

Fig.1. Subsided area

Subsidence area problems (1) Because of history reasons, there are part of the buildings and urban infrastructure located above the coal field in Heilongjiang coal city; this makes subsidence disaster caused by the coal mining activity very serious. mining subsidence Make a lot of surface buildings damaged, crazed, or even collapsed, A part of the municipal infrastructure are damage,