

# The Layout Integration of Sports Park Construction based on the Concept of Ecological Civilization



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Submission: November 16, 2021; Published: December 06, 2021

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## Abstract

It is the great significance that the construction layout of sports park caters people's growing demand for physical fitness, improve people's quality of life and promote the strategy of sports power. At present, more and more people take part in physical exercise in everyday, therefore, there is a hot topic toward the question of "where to go for fitness" in the process of China's rapid promotion of national fitness. Based on the needs question of construction layout of sports park, this study proposed the research topic of the layout integration of sports park construction based on the concept of ecological civilization. The Study purpose is to survey the influencing factors of the construction layout of sports park, the second purpose is to investigate how to build a reasonable and feasible the layout integration scheme for sports park construction. Literature research, field investigation and expert interview were used in the study. The study results show that the layout integration of sports parks should be considered in the natural ecology, economic development, population size and local movement habits. At the same time, the principle of construction layout should be followed in green and environmental protection, convenience, and practicality. On the other hand, it is important that the layout plan of sports park should be according to the total living population and space area.

**Keywords:** National fitness; Sports park; Layout integration; Ecological civilization

## Introduction

Sports park is an important element of sports fitness, integrated with natural ecology, with ecological improvement, beautify the environment, sports fitness, sports leisure, disaster prevention and hedge and other functions of green public space, also is an organic part of the green space system. Promoting the construction of sports parks is of great significance to meet the growing demand of people for physical fitness, improve the quality of people's life and promote the construction of sports power. At present, with the deepening of China's national health plan, more and more people take part in physical exercise. It is particularly important to focus on solving the problem of "where to go for fitness". On October 23, 2021, the National Development and Reform Commission, the General Administration of Sports, the Ministry of Natural Resources and other jointly issued the "Guidance on Promoting the Construction of Sports Parks", the "opinion" proposed that by 2025, the country will build 1,000 sports parks, The proportion of people who regularly take physical exercise reached 38.5%, and the 15-minute fitness circle in the community was fully covered. It is clearly stated in the 14th Five-Year Plan and the outline of the Vision goal for 2035

that China will become a sports power by 2035, and sports has become a landmark cause of the great rejuvenation of the Chinese nation. Sports park will become a new carrier of national fitness, an organic part of green space system, an effective way to improve people's taste of life, and an important symbol to enhance urban taste.

Based on this, this study based on the literature review according to the convenience of the people, equitable access to the principle. Guided by public welfare, with the focus on building sports parks around the masses, with the goal of serving the whole age population in close proximity, taking measures in accordance with local conditions, diversified fitness facilities will be arranged in accordance with the local exercise habits of the masses, and the level of wisdom will be improved to make it convenient for urban and rural residents to take part in physical exercise at the nearest location. According to the sports park construction guiding ideology, construction layout, construction mode, policy support, operation mode, economic development level, natural ecology, population size and other factors to optimize the construction layout. At the same time, we will adhere to the principle of

coordinating population, resources and environment, and comply with relevant laws, regulations and construction planning requirements. Reasonable planning and construction layout scale, green environmental protection, convenient and practical [1-5].

**Methods**

The layout of national fitness park construction should consider public welfare, basic, systematic, natural ecology, economic development, population scale and other factors. Based on the principle of convenience and accessibility, the construction plan aims at serving the whole age population of the region and carries out a reasonable and balanced layout in combination with regional characteristics and local mass movement habits. The construction planning of sports park is based on the construction idea, focusing on the integration of construction layout, construction mode, policy support and operation mode.

Construction idea of national fitness sports park. National fitness sports park construction planning to consider three key issues. First of all, sports park construction planning should focus on the where “fitness” of the public, expand public welfare, the basic national fitness service supply, adhere to the system concept, green ecology as the lead, handle park landscape and the relationship between the fitness facilities, promote the fitness facilities in harmony with the natural landscape harmony, build a new carrier green convenient national fitness. Secondly, determine the construction scale reasonably. The construction scale of national fitness sports park should be rationally and balanced according to the development level, natural ecology, population scale, stock resources and other factors. Third, the national fitness sports park construction planning to adhere to the convenience of the people, fair and accessible principle. Guided by public welfare, with the focus on the construction of sports parks around the masses, with the goal of serving the whole age population in close proximity, taking measures in accordance with local conditions, urban and rural areas as a whole, in accordance with the local exercise habits of the masses layout of diversified fitness facilities, improve the level of wisdom, to facilitate urban and rural residents to participate in sports nearby [6-10].

Supporting measure of national fitness sports park. During the construction of the sports park, the government put forward all-round support measures. First, the government should ensure

land supply. Regional sports park construction should be based on national space planning, sports park related construction land into the annual land use plan, reasonable arrangement of land demand. In accordance with the premise of relevant planning, priority should be given to the new construction land planning index for sports parks built on barren hills, wasteland, barren beach and rocky desertification land. Secondly, do not change the surface form, do not destroy the premise of natural ecology, promote the compound use of mountains, water, forests, fields, lakes, grass and other natural resources to build sports parks. Third, we need to optimize the approval and construction procedures. Improve the policy of using public green space, idle space and other places to build fitness facilities, optimize the approval procedures for the construction of temporary sports facilities. Fourth, expand funding channels. The construction of sports parks will be integrated into the national fitness facilities construction project during the 14th Five-Year Plan period, and investment from the central budget will be arranged to support the construction of sports parks that meet the requirements. Fifth, strengthen departmental coordination. Local development and reform, sports departments to strengthen the organization and leadership, the sports park construction as an important people’s livelihood project put on the agenda. Sixth, strengthen oversight and implementation. All localities shall, according to the requirements of this opinion and in combination with the actual situation, promptly formulate the local sports park construction plan.

**Results**

Layout planning of national fitness sports park. The construction scale and layout planning of sports park should be based on the total resident population and space planning. We should strengthen the principle of convenience and benefit to the people, enhance public welfare and increase accessibility. Priority should be given to layout and construction in areas close to residents and covering large population. The service function and building area of the sports park should be coordinated reasonably, and the construction plan of the sports park should be prepared according to the four levels of central city, county, central town and general town. The construction of sports park is based on the total resident population and the specific planning and construction layout of the space (Table 1).

**Table1:** layout planning of national fitness sports park.

Population size of permanent	Population of 500,000 or more	Population between 300,000 to 500,000	Population of 300,000 or less
Area of sports park	Not less than 100,000 square meters	Not less than 60,000 square meters	Not less than 40,000 square meters
Proportion of land fitness facilities	Not less than 15%, No less than 65%	No less than 20% No less than 65%	No less than 20% No less than 65%
Fitness trail distance	Not less than 2 kilometers	Not less than 1 kilometer	Not less than 1 kilometer
Sports venues	More than 10 pieces	More than 8 block	More than 4 pieces
Sports program	No less than 5 items	No less than 4 items	No less than 3 items

## Conclusion

a. Based on the theory of ecological civilization, this paper discusses that the construction planning should adhere to the principles of convenience, public welfare, and accessibility. The layout planning of sports park construction should be optimized from the factors of regional natural ecological environment, economic development level, population scale and local mass movement habits. At the same time, sports park construction scale and layout planning should be based on the total resident population and space planning. The service function and building area of the sports park should be coordinated reasonably, and the construction plan of the sports park should be prepared according to local conditions.

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DOI: [10.19080/CERJ.2021.12.555843](https://doi.org/10.19080/CERJ.2021.12.555843)

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