

Abstract

Today, damming and creating big watery structures have become a symbol of empowerment and economic development for countries in the world. In most countries, including Iran, have done planning and wide investment in order to make engineering structures, especially dams. But the major problem is less considered, outcomes of implementation of these projects and assess the effects of social, economic and environmental of these projects. Since most major limitations implementation these projects are capital and sources of funding and investment in economic and environmental fields, provides improved conditions for sustainable development. The most important criterion for determining the best projects is comparing the positive effects of the projects due to the amount of costs. Kahyr dam is located in 110 kilometers from the Chabahar city and five kilometers from the village Kahyr. The dam is concrete roller crushed and with the aim of providing drinking water, industry and agriculture is running in Chabahar and Konarak.

In this study, has been paid to the economic and environmental assessment of the dam. Because the project is running, agricultural costs and required benefits must be predicted for evaluate economic and environmental. Due to the uncertainty and inaccuracy of items predicted, the Fuzzy approach used in calculating the benefit to cost ratio. The required data is collected due to amount progress of the project with collaboration the Regional Water Organization of Sistan and Baluchestan. The research results showed that the dam construction project has economic justification. but since the construction of large dams create substantial and irreversible change in their own sphere of influence. And given that the environmental study project is evaluated all effects in the fields of physics, biology and the social and cultural. All of their effects is quantitative in assessing. The obtained results is indicative positive effect dam construction on regional environment.

Key words: Sustainable development, Engineering economy, Uncertainty, Fuzzy approach



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