

Indicator system for assessing sustainable development in Egyptian new cities under water scarcity issue

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Abstract

Egypt currently faces many challenges related to the sustainability of new cities, which suffer many of the current environmental and urban problems to achieve the goals of environmental sustainability as desired globally with disregard for the standards of achieving sustainability in the case of the scarcity of water resources as a global issue where the issue of water is at the forefront of the concerns of countries globally, including Egypt to confront all proposals and balance them through following the thinking of maximizing the benefit of rationalization and development of irrigation methods and increasing the efficiency of the uses of water resources in national projects. The proposal for new cities remained to accommodate the current population growth and population needs. The current planning thought of Egyptian urban communities does not match global requirements and developments towards sustainability, and lacks realism and flexibility in dealing with global environmental issues, including the issue of scarcity of water resources.

The research based on identifying the challenges to water sustainability in new cities, general study of standards and indicators for sustainability of development in light of the scarcity of water resources and the identification of selection criteria for indicators.

aim of identifying a system of indicators that contains a set of standards and indicators appropriate to the state of new cities in Egypt, which achieves the sustainability of development in the new communities in light of the scarcity of water and takes into account the quality of life of human beings in various fields, which help to identify gaps and weaknesses in the water sector in new clusters and identify priorities of development that take into account the thinking of sustainability.

Key words:

indicator systems, water city index, sustainable criteria, new cities, water scarcity