

Abstract

The need to use zero energy to achieve more electric power generation is one of the most important areas for finding new sources of renewable energies. Optimal utilization of natural resources not only responds to human demand for electricity generation. But also balances the supply of human needs and the optimal use and non-damage to the natural environment, which is one of the main issues of environmental sustainability in the city of Zabul, but among the resources available for renewable energy, wind and solar energy, for many reasons, easy access and ease Conversion to electrical energy is particularly popular. Today, with mass production and economic use of wind and solar energy to meet energy needs. Types of wind turbines and photovoltaic or photovoltaic cells of buildings and their energy independence are very much taken into consideration in urban planning. If only 1% of the solar energy is converted to Earth, it will be converted to electrical energy. The efficiency of 10% will generate 3,000 gigawatts, which is four times more than the annual energy consumption of the world. The purpose of this research is to investigate the use of solar and wind energy in Zabol. The methodology of the present research is descriptive-analytic and based on library studies and field surveys. In this regard, the required data and data are provided through valid documents and papers prepared and analyzed by ARC GIS, MATLAB software and other related software and new models and, finally, it addresses more and better strategies and strategies. Gets The results indicate that the use of zero energy (solar and wind) in Zabul (having more than 260 sunny days with a sustainability of 28% of wind and an average of 3216 hours of sunshine and up to 240 days of wind), smart buildings using intelligent refinement technologies The balance between production and energy consumption is established.

Key words: Wind energy, Solar energy, Building, Zabol city, Zero energy



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**The Thesis Submitted for the Degree of M.Sc (in the field
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**Examines the implications of zero energy
(solar and wind) in strategic planning Zabol city**

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