

عنوان مقاله:

An economic analysis of optimal energy supply considering renewable energy in Isfahan

محل انتشار:

دومین کنفرانس بین المللی انرژی اکو (سال: 1398)

تعداد صفحات اصل مقاله: 11

نویسندگان:

Nasim Mansouri - *Department of Environment and Energy(Master) Faculty of Energy Economic, Science and Research Branch, Islamic Azad University, Iran, Islamic Azad University, Science and Research Branch, Tehran*

Alimorad Sharifi - *Department of economics faculty of economic, Isfahan university, Iran*

خلاصه مقاله:

The need for regional energy planning in the macro process is Important because of local energy requirements. In this respect, the part of direct effects of production and consumption energy is Local effective, that less to the macro energy planning processes is Considered. This paper, based on the attitude of the continuing of energy supply, Review the long-term access to resources and reduce emissions from the view of regional. Here the city of Isfahan, for example, has been selected for this study. In this research, for the supply of energy Consumption in Isfahan studied optimal of combining the optimal alternative energies such as solar, wind and gas in the period from 10 years. The model of this paper with the annual consumption of electricity, the potential of alternative energy, variable and capital costs of the grid and the new alternative technologies, is calculated optimal production under consideration minimum cost, constraint of emissions and Supply Demand. For the optimization problem solving used goal programming method because the used of model is multi-purpose. The results of this research show that through an optimum combination of solar, wind and gas power plants production, The share of gas energy production by 2015, which is 3930174000 kW peak and the share of solar and wind energy production over the next 10 years 7% Increased and To compensate for the supply of electrical energy used the power grid. . Compared to the current situation with same capital cost, the rate of pollution would be decreased significantly

کلمات کلیدی:

Goal programming , local energy planning, solar Energy, wind energy, energy economic

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/975654>

