

REDUCTION IN CO₂ EMISSIONS THROUGH INTRODUCTION OF SUSTAINABLE LIVING

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Centre for Multidisciplinary Studies, University of Belgrade, is a scientific institution dedicated to development of a multidisciplinary approach to scientific research. The Centre conducts pioneer projects within energy field in Serbia, introducing new methodologies and their practical application.

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One of Serbia's main goals should be to raise consumers' awareness on energy use. Problem with sustainable energy is mainly on the ground level, ordinary citizens cannot find information or a supporting advice on where and how to implement energy efficiency or renewable energy technology or how to benefit from state incentives. This project would provide the general public with vital information on the subject, and give an example for initiating sustainable farming in Serbia.

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It is essential for the future life on Earth to find new energy services less harmful to the environment. This depends on available energy resources, as much as on lifestyle, public utilities and technologies in use. Switching to renewable energy sources and energy saving should be the main direction for the global energy sector to develop. We are facing a point where, even if conservation measures are applied successfully, rapid population growth will still lead to an increase in fossil energy use and intensify global warming.

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Introducing sustainable living is a project that would in long term redefine farming in Serbia, with energy conservation as a main objective. This project should initiate development of zero emitting village models.

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The project will take place in the village Krnjevo, in a vineyard well known for its high quality red wine. This village is located in the high percentage of energy on wine production. According to IPCC, management options available to sequester carbon include more efficient use of organic amendments (composting), irrigation and organic farming and these parameters will be applied to the project.

Project Activities

- Calculation of conventional energy saving as a result of wind and solar energy use
- Approximation of indirect decline in CO₂ emission
- Installation of solar panels for water heating
- Work with local community
- Construction of a water saving irrigation system (drip irrigation)
- Conservation tillage

Expected Result of the project

is decrease in CO₂ microconcentration due to the introduction of renewable energy sources, as well as increase in biomass and soil carbon absorption thanks to better plant production and soil properties!