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## Original Article

## Survey of Relation Between Consumption of Energy and Environmental Pollutants Emission Resulted of These Consumptions in Central Main Campus of Tehran University

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## Abstract:

Backgrounds and Objectives: Today the crisis rising from over consumption energy and material and environmental pollution pose serious problems that challenges present resources of man. Sustainable development is probably an inevitable strategy for human being in such a way that the least possible damage be inflicted to the environment. In this way, the role played by universities in reaching the objectives of sustainable development is crucial. In this paper, we examine the present state of consumption energy resources (Electricity and natural gas) in the central main campus of Tehran University and so we calculate the extent of environmental pollutants resulted of these energy consumptions.

Materials and Methods: For surveying of our objectives the first step is a survey of the current state of campus by way of reexamination of Gas and Electricity bills and distribution of a questionnaire. Second is an estimate of the entering pollutants to the environment with online software in site of <http://www.abraxasenergy.com/emissions>.

Results: annual consumption of 16.5 million KWHs of electricity along with 4312392 m<sup>3</sup> of natural gas leads to 0.0218 million tones Co<sub>2</sub>, 778 kg VOCS, 374.6 tones NOX, 2.41 tones CO, 65.341 tones So<sub>2</sub>, 93 kg Mercury compounds and 868 kg particles.

Conclusion: It is shown that there is no objective effort and green management in this part of university officials. This project suggests that the implementation of green management in the framework of programs such as green university can be crucial in reaching the objectives.

## Keywords:

Energy , Environment , Pollutants , Pollutantst , Tehran University

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